



ADC API Guide

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Preface

Revision History

Revision	Description	Date
1.0	Initial release of document for Release 2022.1.0	Jun 2022
1.1	Updated the document for Release 2022.1.0 FP2	November 2022

About this Guide

The AppViewX ADC API guide covers management and configuring APIs across the following categories:

- Login
- Object
- Device
- Dashboard

Audience

This guide is intended for PKI Security, DevOps, and Application Teams.

Text Conventions

The following text conventions are used in this document:

Convention	Description
boldface	Boldface type indicates graphical user interface elements associated with an action, or terms defined in text or the glossary.
<i>italic</i>	Italic type indicates book titles, emphasis, or placeholder variables for which you supply particular values.
<code>codeblock</code>	Indicates commands within a paragraph, URLs, code in examples, text that appears on the screen, or text that you enter.

About AppViewX

The AppViewX Platform is the industry's first product category that offers Multi-vendor load balancer centric Management, Automate and Orchestrate best-in-class and open-source application delivery services, and enables Self Servicing capabilities. It supports both traditional and non-traditional ADCs from leading vendors - F5 Networks, AVI, and NGINX.

ADC Overview

AppViewX enables NetOps & SecOps teams to support ever-increasing business demands with greater agility. It offers state-of-the-art management capabilities that map to the needs of application owners, network engineers, and network operations.

ADC is an intuitive platform for Management, Automation, Orchestration, and Observability for application delivery services across Hybrid multi-cloud environments. With ADC+, you can gain application centric insights, visibility into application services, and simplify application delivery infrastructure operations. It offers a single pane of glass/Interface and a holistic view of your application delivery across hybrid multi-cloud environments.

Log Into AppViewX

Authenticate into the AppViewX application with the username and password.

- [Request Structure](#)
- [Response Structure](#)
- [Status Codes](#)
- [Sample Request/Response](#)

Request Structure

URL: /login

Type: POST

Param Type	Name	Description	Field Type	Constraints
Header	username	AppViewX login username	String	
Header	password	AppViewX login password	String	
Header	Content-Type	Specifies the nature of the data in the payload.	String	Value of the param should be application/json
Query	gwkey	Tenant Key. Needed only in case of multi tenant installations		
Query	gwsorce	Source from which the request is triggered (Eg: web, external)	String	

Response Structure

200 OK, returns a string of type application/JSON with the following body parameters:

Name	Description	Field Type
response	Contains the response for the session activation with the authentication/session ID.	Key Value Pair
message	Success message along with the objectIds or failure description in case of error.	String

Name	Description	Field Type
appStatusCode	Application specific status code for the response. Will be non-null for failure response.	String
tags	More info in case of failure response.	Key value pair

Status Codes

HTTP Status Code	appStatusCode	Message	Possible Remediation
200 OK	-	Login successful	-
400 Bad request		Username or password cannot be null or empty	Check and ensure if a non-null/non-empty value is given in the header field for username or password
401 Unauthorized		Login failed. Invalid credentials.	Check and ensure if the username and password provided are valid and correct.

Sample Request/Response

Use Case

Login to the application with the user name, **appviewxuser**, and password, **appviewxpassword**. The session id received as response in the example below is ce7f1a14-2bf9-4e4a-89a8-bc780a255813.

Sample Request

```
{
}
```

Sample Response

```
{
  "response":{
    "status":"SUCCESS",
    "appStatusCode":null,
    "statusDescription":null,
    "sessionId":"ce7f1a14-2bf9-4e4a-89a8-bc780a255813",
```

```
"availableLoginAttemptCount":null
```

```
},
```

```
"message":null,
```

```
"appStatusCode":null,
```

```
"tags":null,
```

```
"headers":null
```

```
}
```

Chapter 1: Object

- Overview: Object
- Search for Object
- Get Object Hierarchy
- Composite Keys for F5 Widelp
- Get Object Configuration
- Action - Enable an Object
- Action - Disable an Object
- Action - Forcedown Object
- Action - Forcedown Active Object
- Action - Graceful Disable Object
- Action - Enable Persistence for Object
- Action - Disable Persistence for Object
- Action - Clear Persistence Record
- Action - Set Service Down Value
- Get Objects in Constant Status
- Get Objects in Constant State
- Get Object Status Trend
- Get Object State Trend
- State Status Drift Response
- Action - Set Loadbalancing Method
- Action - Set Connection Limit
- Action - Set Ratio
- Action - ARP Enable/Disable
- Action - Set CNAME

- [Get Transaction Status](#)
- [Search - LTM and GTM Pool](#)

Overview: Object

The objects of the devices can be grouped related to the application to understand the hierarchy and traffic flow of the application. By using the object APIs, you can search, view, manage all the entities, configurations, or objects.

Search for Object

Search for objects that are already discovered in AppViewX to monitor or to perform actions on it. This API will return results based on the resources assigned to the user.

- [Before you begin](#)
- [Request Structure](#)
- [Payload](#)
- [Response Structure](#)
- [Response](#)
- [Status Codes](#)
- [Input Keys](#)
- [Filter Keys](#)
- [Sample Request/Response](#)

Before you begin

Before attempting to search for objects with this API, users must ensure the ACF permission **ADC > ControlCenter > Infrastructure view** is available. This can be checked under **Accounts > Role > Authorized Functions**.

Request Structure

URL: /adc-objects-search

Type: POST

Param Type	Name	Description	Field Type	Constraints
Header	sessionId	Session ID received after login.	String	Required when username and password are not provided for login.
Header	username	Username of the user to log in to AppViewX.	String	Required if session ID is not provided for login.
Header	password	Password of the user to log in to AppViewX.	String	Required if session ID is not provided for login.
Header	Content-Type	Specifies the nature of the data in the payload.	String	Value of the param should be 'application/json'.
Query	gwkey	Enter the Tenant Key. Needed only in case of multi tenant installations.	String	
Query	gwsouce	Source from which the request is triggered. For example, web, external, etc.	String	
Body	payload	Contains all the params to be sent in the request body for the post request	Payload	

Payload

Name	Mandatory	Description	Field Type	Constraints
input	Yes	Input filter key and value to perform the search. Multiple key and value pairs can also be mentioned.	Key value pair	Possible values: Input
filter	No	Filter params to be applied on response such as start,limit and sort.	Key value pair	Possible value: Filter

Response Structure

200 OK, returns string of type application/json with the following body params:

Name	Description	Field Type
response	Contains the response params for the search object request.	response
message	Success message or failure description in case of error.	String
appStatusCode	Application-specific status code for the response. Will be non-null for failure response.	String
tags	More info in case of failure response.	

Response

Name	Description	Field Type
objects	List of objects from the database, that matches the input query.	Object[]
totalRecords	Total no of records matching the search query.	Integer
obtainedRecords	Total no of records returned considering the filter query.	Integer
obtainedRecordRange.start	Start index for the range of records returned considering the filter query.	Integer
obtainedRecordRange.end	End index for the range of records returned considering the filter query.	Integer

Status Codes

HTTP Status Code	appStatusCode	Message	Possible Remediation
200 OK	-	Matching results found for the given input.	-
400 Bad request	ADC_OBJECT_SEARCH_001	Invalid search input.	Check and ensure if a valid value is given in the request payload field - input.

HTTP Status Code	appStatusCode	Message	Possible Remediation
400 Bad Request	ADC_OBJECT_SEARCH_003	Invalid object type.	Given object type value under request payload field 'objectType' is not supported.
400 Bad Request	ADC_OBJECT_SEARCH_005	Device not found.	Check if the device name given in the payload request field - deviceName is valid and is available in inventory.
404 Not Found	ADC_OBJECT_SEARCH_004	No matching records found.	No results were found for the given search query. Refine the search query.

Input Keys

The following are the most commonly used keys to search for an object managed in AppViewX. Apart from these, there are more keys that are available in the database parsed against each object, that can be used as a search param.

Name	Mandatory	Description	Field Type
deviceName	No	Name of the device added in inventory. It can contain only alphanumeric characters, '-', '_', ':', '*', ' ', '!'. !	String
objectType	No	ObjectType to query. Possible values of objectTypes can be found here .	String
vendor	No	Vendor of the device. Eg.:F5, AVI, etc.	String
destinationIp	No	Field denoting the IP of the virtual server object in F5. The IP address must be in IPV4 format.	String
destinationPort	No	Field denoting the port of virtual server object in F5. It must be between 1 and 65535.	String
partition	No	Partition of the object. It must contain alphanumeric values, '-', '.', '_', and space.	String

Name	Mandatory	Description	Field Type
name	No	Name of the object.	String
ip	No	IP value of the object. The IP address must be in IPV4 format.	String

Filter Keys

Name	Mandatory	Description	Field Type
start	No	Start index of the response to the display. The default value is taken as 0.	Integer
max	No	Number of entries from a start index to display. The default value is taken as 99. Max = 100	Integer
sortColumn	No	Column on which sort is to be applied. Possible Values are "displayName", "name", and "sortLevel".	String
sortOrder	No	Sorting order. Possible values: asc,desc.	String

Sample Request/Response

- [Use Case](#)
- [Sample Request](#)
- [Sample Response](#)

Use Case

View all the Wide IPs in the system with the name testGw.com.

Sample Request

```
{
  "payload": {
    "input": {
      "objectType": "Wideip",
      "name": "testGw.com"
    },
    "filter": {
      "start": 1,
      "max": 100,
      "sortColumn": "displayName",
      "sortOrder": "asc"
    }
  }
}
```

Sample Response

```
{
  "response": {
    "objects": [
      {
        "alias": "",
        "code": "gw",
        "color": "AVAILABILITY_STATUS_BLUE",
        "configData": "gtm wideip /Common/testGw.com {n pools {n /Common/asdf {n order 0\n ratio 4\n }n }n}\n",
        "dashboardObjectName": "testGw.com(192.168.40.150)",
        "description": "",
        "deviceId": "5f36bed67620c40e97e30348",
        "displayName": "testGw.com/192.168.40.150/F5",
        "gp": [
          "gp:@5f36bed67620c40e97e30348:@asdf:@Common"
        ],
        "ipv6NoErrorNegTtl": ""
      }
    ]
  }
}
```

```

"ipv6NoErrorResponse": "disabled",
"last-resort-pool": "none",
"lbmode": "round-robin",
"name": "testGw.com",
"partition": "Common",
"persistCidrIpv4": "",
"persistCidrIpv6": "",
"persistence": "DISABLED_PERSISTENCE",
"persistenceTtl": "",
"poolPropertyMap": {

},
"status": "ENABLED",
"statusCode": "UNKNOWN_ENABLED",
"vendor": "F5",
"resource_id": "gw:@5f36bed67620c40e97e30348:@testGw.com:@Common"
}
],
"totalRecords": 1,
"obtainedRecords": 1,
"obtainedRecordRange": {
  "start": 1,
  "end": 1
}
},
"message": "Matching results found for the given input.",
"appStatusCode": null,
"tags": null,
"headers": null
}

```

Get Object Hierarchy

Search for objects that are already discovered in AppViewX to monitor or to perform actions on it. This API will return results based on the resources assigned to the user.

- [Before you begin](#)
- [Request Structure](#)
- [Payload](#)
- [Response Structure](#)
- [Status Codes](#)
- [Sample Request/Response](#)

Before you begin

Before attempting to get an object hierarchy with this API, users must ensure any one of the ACF permission “ADC > ControlCenter > Infrastructure view”, “ADC > ControlCenter > Application view” is available. This can be checked under Accounts > Role > Authorized Functions.

Request Structure

URL: /adc-object-hierarchy

Type: POST

Param Type	Name	Description	Field Type	Constraints
Header	sessionId	Session ID received after login.	String	Required if username and password are not provided.
Header	username	AppViewX login username.	String	Required if sessionId is not provided.
Header	password	AppViewX login password.	String	Required if sessionId is not provided.
Header	Content-Type	Specifies the nature of the data in the payload.	String	Value of the param should be 'application/json'.
Query	gwkey	Tenant Key. Needed only in case of multi tenant installations.	String	
Query	gwsouce	Source from which the request is triggered (Eg: web, external).	String	
Body	payload	Contains all the params to be sent in the request body for the post request.	Payload	

Payload

Name	Mandatory	Description	Field Type	Constraints
object	Yes	The composite key values that have to be given to identify an object.	Key-value pair Composite key	-

Response Structure

200 OK, returns string of type application/json with the following body params

Name	Description	Field Type
response	Contains the response object along with the hierarchy of the object mapped in field children.	Key value pair
message	Success message or failure description in case of error.	String
appStatusCode	Application specific status code for the response. Will be non-null for failure response.	String
tags	More info in case of failure response.	

Status Codes

HTTP Status Code	appStatusCode	Message	Possible remediation
200 OK	-	Topology successfully retrieved for the given object.	-
400 Bad Request	ADC_CC_0514	Invalid object details	Check and ensure if a valid value is given in payload request field - 'object'

HTTP Status Code	appStatusCode	Message	Possible remediation
400 Bad Request	ADC_DASH_0528	Invalid device name	Check and ensure if payload request field 'object.deviceName' is given.
400 Bad Request	ADC_DASH_0526	Invalid Vendor	The vendor is not supported. Check for possible valid vendors under field 'tags.validVendors' in the response
500 Internal Server Error	ADC_DASH_0512	Exception: Invalid Object type	Check if a valid non-null/non-empty value is given in the payload request field 'object.objectType'. If a valid value is given, the given object type might not be supported. Check for possible valid object types under field 'tags' in the response
404 Not Found	ADC_INV_0010	Device not found.	Device not found in database. Check if the device name given under field deviceName of the object property is available in the inventory
404 Not Found	ADC_INV_2003	No Object Found for the request	Check the composite keys and values given under the payload field 'object'.
403 Forbidden	ADC_CC_0006	Permission is not available for given objects.	Check if the requested object has either Read/Read Write permission.

Sample Request/Response

- [Use Case](#)
- [Sample Request](#)
- [Sample Response](#)

Use Case

Get Hierarchy of the wide ip object www.appviewx.com from partition Common on device 192.168.112.78.

Sample Request

```
{
  "payload": {
    "object": {
      "deviceName": "192.168.xxx.xx",
      "objectType": "wideip",
      "partition": "Common",
      "objectName": "www.appviewx.com",
      "recordType": "a"
    }
  }
}
```

Sample Response

```
{
  "response": {
    "_id": "gw:@5ea9637de0dc314883cbd04f:@www.appviewx.com:@Common:@a",
    "alias": "",
    "code": "gw",
    "color": "AVAILABILITY_STATUS_RED",
    "configData": "gtm wideip a /Common/www.appviewx.com {\n  pools {\n    /Common/gtm_pool_ipv6 {\n      order 0\n      ratio 99\n    }\n  }\n}",
    "dashboardObjectName": "www.appviewx.com(192.168.xxx.xx)",
    "description": "",
    "deviceId": "5ea9637de0dc314883cbd04f",
    "displayName": "www.appviewx.com/a/192.168.xxx.xx",
    "gp": [
      "gp:@5ea9637de0dc314883cbd04f:@gtm_pool_ipv6:@Common:@a"
    ],
  }
}
```

```

"gr": [
],
"ipv6NoErrorNegTtl": "",
"ipv6NoErrorResponse": "disabled",
"last-resort-pool": "none",
"lbmode": "round-robin",
"name": "www.appviewx.com",
"partition": "Common",
"persistCidrIpv4": "",
"persistCidrIpv6": "",
"persistence": "DISABLED_PERSISTENCE",
"persistenceTtl": "",
"poolPropertyMap": {
},
"recordType": "a",
"status": "ENABLED",
"statusCode": "OFFLINE_ENABLED",
"vendor": "F5",
"lastStatusSyncTime": 1597830719934,
"children": [
{
  "_id": "gp:@5ea9637de0dc314883cbd04f:@gtm_pool_ipv6:@Common:@a",
  "alternate": "round-robin",
  "avaibilityValue": "",
  "avaibilityRequirement": "all",
  "cname": "",
  "code": "gp",
  "color": "AVAILABILITY_STATUS_RED",
  "configData": "gtm pool a /Common/gtm_pool_ipv6 { }n",
  "dashboardObjectName": "gtm_pool_ipv6(192.168.xxx.xx)",
  "deviceId": "5ea9637de0dc314883cbd04f",
  "deviceName": "192.168.xxx.xx",
  "displayName": "gtm_pool_ipv6/a/192.168.xxx.xx",
  "dynamicRatio": "disabled",
  "fallback": "return-to-dns",
  "fallbackIp": "0.0.0.0",
  "gm": [

```

```
],
  "gpm": [
  ],
  "gtr": [
  ],
  "gw": [
    "gw:@5ea9637de0dc314883cbd04f:@www.appviewx.com:@Common:@a"
  ],
  "gwChild": [
  ],
  "limitConnections": "",
  "limitbps": "",
  "limitpps": "",
  "manualResume": "disabled",
  "maxAddrReturned": "1",
  "monitors": [
  ],
  "name": "gtrm_pool_ipv6",
  "parentName": [
    "www.appviewx.com"
  ],
  "partition": "Common",
  "preferred": "round-robin",
  "qualityofService": {
    "qos-lcs": "30",
    "qos-hit-ratio": "5",
    "qos-hops": "0",
    "qos-packet-rate": "1",
    "qos-topology": "0",
    "qos-vs-score": "0",
    "qos-kilobytes-second": "3",
    "qos-vs-capacity": "0",
    "qos-rtt": "50"
  },
  "ratioMap": [
  ]
}
```

```

    "partition": "Common",
    "recordType": "a",
    "name": "www.appviewx.com",
    "_id": "gw:@5ea9637de0dc314883cbd04f:@www.appviewx.com:@Common:@a",
    "order": "0",
    "ratio": "99"
  }
],
"recordType": "a",
"status": "ENABLED",
"statusCode": "OFFLINE ENABLED",
"ttl": "30",
"vendor": "F5",
"verifyMemberAvailability": "enabled",
"lastStatusSyncTime": 1597830719934,
"ratio": "99",
"order": "0",
"children": [

]
}
]
},
"message": "Topology successfully retrieved for the given object.",
"appStatusCode": null,
"tags": null,
"headers": null
}

```

Composite Keys for F5 Widelp

Name	Mandatory	Description	Field Type
deviceName	Yes	Name of the device added in inventory. It can contain only alphanumeric characters, '-', '_', '.', '*', ' ', '!.	String
objectType	Yes	ObjectType to query.	String

Name	Mandatory	Description	Field Type
		It accepts alphanumeric characters and spaces.	
partition	Yes	Partition of the wide IP object. It accepts alphanumeric characters, '-', '.', '_' and space.	String
objectName	Yes	Name of the wide IP object	String
recordType	Yes	Record type of the Wideip object (Needed only for F5 versions above v12). Possible values.: A,AAAA,CNAME, etc.	String

Get Object Configuration

This API retrieves the configuration of an object as stored in the AppViewX inventory. It can retrieve the latest configuration and also the configuration is known at a given time if any.



Note: The configuration is not fetched from the device in real-time but from the AppViewX inventory.

- [Before You Begin](#)
- [Request Structure](#)
- [Payload](#)
- [Response Structure](#)
- [Status Codes](#)
- [Sample Request/Response](#)

Before You Begin

Before attempting to get an object configuration with this API, users must ensure any of the ACF permission from **ADC > Control Center**, **ADC > Dashboard > Application Widget**, or **ADC > Orphan objects** is available. This can be checked under **Accounts > Role > Authorized Functions**.

Request Structure

URL: /adc-object-configuration

Type: POST

Param Type	Name	Description	Field Type	Constraints
Header	sessionId	Session ID received after login	String	Required if username and password are not provided
Header	username	AppViewX login username	String	Required if sessionId is not provided
Header	password	AppViewX login password	String	Required if sessionId is not provided
Header	Content-Type	Specifies the nature of the data in the payload.	String	Value of the param should be 'application/json'
Query	gwkey	Tenant Key. Needed only in case of multi-tenant installations	String	
Query	gwsource	Source from which the request is triggered (Eg: web, external)	String	
Body	payload	Contains all the params to be sent in the request body for the post request	payload	

Payload

Name	Mandatory	Description	Field Type	Constraints
objectId	Yes	Resource ID of the objects. Use the search API to search/get the resource ID.	String	-
timeStamp	No	To get the known configuration at the given time, mention the time stamp as well. If not mentioned, the latest known configuration will be returned.	Long	-

Response Structure

200 OK, returns string of type application/json with the following body params

Name	Description	Field Type
response	Contains the requested objects config data	String
message	Success message or failure description in case of error	String
appStatusCode	Application-specific status code for the response. Will be non-null for failure response.	String
tags	More info in case of failure response	

Status Codes

HTTP Status Code	appStatusCode	Message	Possible remediation
200 OK	-	Configuration found for the given object.	-
404 Not Found	ADC_INV_1554	Config data not found for given object details	Check if given timeStamp and objectId is valid
403 Forbidden	ADC_INV_1558	Cannot access resource, permission not available.	Check if Read/Read Write permission is available for the requested object
404 Not Found	ADC_INV_2003	No Object Found for the request	Check the resource id given under field 'objectId' is valid

Sample Request/Response

- [Use Case](#)
- [Sample Request](#)
- [Sample Response](#)

Use Case

Get the known object configuration available at the time 1549362738957(time in milliseconds) for the GTM WideIP object with resource id - **gw:@5f36bed67620c40e97e30348:@testGw.com:@Commo**

Sample Request

```
{
  "payload": {
    "objectId": "gw:@5f36bed67620c40e97e30348:@testGw.com:@Common",
    "timeStamp": 1549362738957
  }
}
```

Sample Response

```
{
  "response": "*** WidelP - testGw.com **\ngtm wideip /Common/testGw.com {\n  pools {\n    /Common/asdf {\norder 0\n  ratio 4\n  }\n  }\n}\n\n** GTM Pool - asdf **\ngtm pool /Common/asdf {\n  disabled\n  members {\n    /Common/server123:gvs1 {\n      order 0\n    }\n  }\n}\n\n** GTM Server - server123 **\ngtm server /Common/server123 {\n  addresses {\n    146.125.206.132 {\ndevice-name server123\n    }\n  }\n  datacenter /Common/cbe\n  monitor /Common/bigip\n  virtual-servers {\n    gvs1 {\n      destination 146.125.206.133:80\n    }\n    gvs2 {\n      destination 146.125.206.133:443\n    }\n    vs1 {\n      destination 2.2.3.4:50\n    }\n  }\n}\n\n** GTM Monitor - bigip **\ngtm monitor bigip bigip {\n  aggregate-dynamic-ratios \"none\"\n  defaults-from none\n  destination *:\n  ignore-down-response disabled\n  interval 30\n  timeout 90\n}\n\n",
  "message": "Configuration found for the given object.",
  "appStatusCode": null,
  "tags": null,
  "headers": null
}
```

}

Action - Enable an Object

This API initiates action Enable one or more ADC objects for which the action applies to. Enable action is supported on the following object types:

- F5 -WideIP, WideIP pool, WideIP pool member, vip, vip pool member, LTM node, GTM server, virtual address
- AVI - Virtual service
- [Before you begin](#)
- [Request Structure](#)
- [Payload](#)
- [Response Structure](#)
- [Status Codes](#)
- [Sample Request/Response](#)

Before you begin

Before attempting to initiate enable action with this API, users must ensure the ACF permission “ADC > ControlCenter > Actions > Enable/Disable/ForceDown” is available. This can be checked under Accounts > Role > Authorized Functions.

Request Structure

URL: /adc-device-object-action-enable

Type: PUT

Param Type	Name	Description	Field Type	Constraints
Header	sessionId	Session ID received after login.	String	Required if username and password are not provided.

Param Type	Name	Description	Field Type	Constraints
Header	username	AppViewX login username.	String	Required if sessionId is not provided.
Header	password	AppViewX login password.	String	Required if sessionId is not provided.
Header	Content-Type	Specifies the nature of the data in the payload.	String	Value of the param should be 'application/json'.
Query	gwkey	Tenant Key. Needed only in case of multi tenant installations.	String	
Query	gwsouce	Source from which the request is triggered (Eg: web, external).	String	
Body	payload	Contains all the params to be sent in the request body for the put request.	Key value pair Payload	

Payload

Name	Mandatory	Description	Field Type	Constraints
objectIds	Yes	Resource ID of the objects. Use the search API to search/get the resource ID.	String[]	-

Response Structure

On 202 Accepted, the action will be initiated and string of type application/json will be returned with the following body params

Name	Description	Field Type
response	Success message or failure description in case of error.	String
message	Success message along with the objectIds or failure description in case of error.	String

Name	Description	Field Type
appStatusCode	Application specific status code for the response. Will be non-null for failure response.	String
tags	More info in case of failure response.	Key value pair

Status Codes

HTTP Status Code	appStatusCode	Message	Possible remediation
202 Accepted	-	Action triggered for the following <n> objects : <resourceIds>	-
400 Bad Request	ADC_OBJ_ACTION_003	No object(s) not found to perform action.	Check if a non-null/non-empty value is given in the payload field - "objectIds".
400 Bad Request	ADC_OBJ_ACTION_004	Action is invalid for the given objects.	Check for supported objects for the action and change the request objectId.
404 Not Found	ADC_CC_0501	No Objects found for performing the given action.	Check and ensure if the requested objectId is available and not deleted.
403 Forbidden	ADC_DASH_0029	No given object(s) have Write permission.	Check and ensure if the requested object has Read Write permission.

Sample Request/Response

- [Use Case](#)
- [Sample Request](#)
- [Sample Response](#)

Use Case

Trigger enables action on objects with resource id

gw: @5f369cba0ca9846e86a13e82: @192.168.112.63: @Common, gw: @5f369cba0ca9846e86a13e82: @192.168.55.248: @Common

Sample Request

```
{  
  
  "payload": {  
  
    "objectIds": [  
  
      "gw: @5f369cba0ca9846e86a13e82: @192.168.112.63: @Common",  
  
      "gw: @5f369cba0ca9846e86a13e82: @192.168.55.248: @Common"  
  
    ]  
  
  }  
  
}
```

Sample Response

```
{  
  
  "response": "Action triggered successfully.",  
  
  "message": "Action triggered for the following 2 objects : gw: @5f369cba0ca9846e86a13e82: @192.168.112.63: @Common,  
gw: @5f369cba0ca9846e86a13e82: @192.168.55.248: @Common",  
  
  "appStatusCode": null,  
  
  "tags": null,  
  
  "headers": null  
  
}
```

}

Action - Disable an Object

This API initiates action Disable on one or more ADC objects for which the action applies to. Disable action disables the object and terminate all active connections. Disable action is supported on the following object types:

- F5 - WideIP, WideIP pool, WideIP pool member, vip, vip pool member, LTM node, GTM server, virtual address
- AVI - Virtual Service
- [Before you begin](#)
- [Request Structure](#)
- [Payload](#)
- [Response Structure](#)
- [Status Codes](#)
- [Sample Request/Response](#)

Before you begin

Before attempting to initiate enable action with this API, users must ensure the ACF permission “ADC > ControlCenter > Actions > Enable/Disable/ForceDown” is available. This can be checked under Accounts > Role > Authorized Functions.

Request Structure

URL: /adc-device-object-action-disable

Type: PUT

Param Type	Name	Description	Field Type	Constraints
Header	sessionId	Session ID received after login.	String	Required if username and password are not provided.

Param Type	Name	Description	Field Type	Constraints
Header	username	AppViewX login username.	String	Required if sessionId is not provided.
Header	password	AppViewX login password.	String	Required if sessionId is not provided.
Header	Content-Type	Specifies the nature of the data in the payload.	String	Value of the param should be 'application/json'.
Query	gwkey	Tenant Key. Needed only in case of multi tenant installations.	String	
Query	gwsouce	Source from which the request is triggered (Eg: web, external).	String	
Body	payload	Contains all the params to be sent in the request body for the put request.	Key value pair Payload	

Payload

Name	Mandatory	Description	Field Type	Constraints
objectIds	Yes	Resource ID of the objects. Use the search API to search/get the resource ID.	String[]	-

Response Structure

On 202 Accepted, the action will be initiated and string of type application/json will be returned with the following body params

Name	Description	Field Type
response	Success message or failure description in case of error	String
message	Success message along with the objectIds or failure description in case of error	String

Name	Description	Field Type
appStatusCode	Application specific status code for the response. Will be non-null for failure response.	String
tags	More info in case of failure response	Key value pair

Status Codes

HTTP Status Code	appStatusCode	Message	Possible remediation
202 Accepted	-	Action triggered for the following <n> objects : <resourceIds>	-
400 Bad Request	ADC_OBJ_ACTION_003	No object(s) not found to perform action.	Check if non-null/non-empty value is given in the payload field - "objectIds".
400 Bad Request	ADC_OBJ_ACTION_004	Action is invalid for the given objects.	Check for supported objects for the action and change the request objectId.
404 Not Found	ADC_CC_0501	No Objects found for performing the given action.	Check and ensure if the requested objectId is available and not deleted.
403 Forbidden	ADC_DASH_0029	No given object(s) have Write permission.	Check and ensure if the requested object has Read Write permission

Sample Request/Response

- [Use Case](#)
- [Sample Request](#)
- [Sample Response](#)

Use Case

Trigger disable action on objects with resource id

gw:@5f369cba0ca9846e86a13e82:@192.168.112.63:@Common,gw:@5f369cba0ca9846e86a13e82:@192.168.55.248:@Common

Sample Request

```
{
  "payload": {
    "objectIds": [
      "gw:@5f369cba0ca9846e86a13e82:@192.168.112.63:@Common",
      "gw:@5f369cba0ca9846e86a13e82:@192.168.55.248:@Common"
    ]
  }
}
```

Sample Response

```
{
  "response": "Action triggered successfully.",
  "message": "Action triggered for the following 2 objects : gw:@5f369cba0ca9846e86a13e82:@192.168.112.63:@Common, gw:@5f369cba0ca9846e86a13e82:@192.168.55.248:@Common",
  "appStatusCode": null,
  "tags": null,
  "headers": null
}
```

}

Action - Forcedown Object

This API initiates action Forcedown on one or more ADC objects for which the action applies to.

Forcedown action is supported on the following object types:

- F5 - LTM pool member,LTM Server
- [Before you begin](#)
- [Request Structure](#)
- [Payload](#)
- [Response Structure](#)
- [Status Codes](#)
- [Sample Request/Response](#)

Before you begin

Before attempting to initiate forcedown action with this API, users must ensure the ACF permission “ADC Accounts > Role > Authorized Functions > ControlCenter > Actions > Enable/Disable/ForceDown” is available. This can be checked under Accounts > Role > Authorized Functions.

Request Structure

URL: /adc-device-object-action-forcedown

Type: PUT

Param Type	Name	Description	Field Type	Constraints
Header	sessionId	Session ID received after login.	String	Required if username and password are not provided.
Header	username	AppViewX login username.	String	Required if sessionId is not provided.

Param Type	Name	Description	Field Type	Constraints
Header	password	AppViewX login password.	String	Required if sessionId is not provided.
Header	Content-Type	Specifies the nature of the data in the payload.	String	Value of the param should be 'application/json'.
Query	gwkey	Tenant Key. Needed only in case of multi tenant installations.	String	
Query	gwsouce	Source fro.m which the request is triggered (Eg: web, external).	String	
Body	payload	Contains all the params to be sent in the request body for the put request.	Key value pair Payload	

Payload

Name	Mandatory	Description	Field Type	Constraints
objectIds	Yes	Resource ID of the objects. Use the search API to search/get the resource ID.	String[]	-

Response Structure

On 202 Accepted, the action will be initiated and string of type application/json will be returned with the following body params

Name	Description	Field Type
response	Success message or failure description in case of error.	String
message	Success message along with the objectIds or failure description in case of error.	String
appStatusCode	Application specific status code for the response. Will be non-null for failure response.	String

Name	Description	Field Type
tags	More info in case of failure response.	Key value pair

Status Codes

HTTP Status Code	appStatusCode	Message	Possible remediation
202 Accepted	-	Action triggered for the following <n> objects : <resourceIds>	-
400 Bad Request	ADC_OBJ_ACTION_003	No object(s) not found to perform action.	Check if non-null/non-empty value is given in the payload field - "objectIds".
400 Bad Request	ADC_OBJ_ACTION_004	Action is invalid for the given objects.	Check for supported objects for the action and change the request objectId.
404 Not Found	ADC_CC_0501	No Objects found for performing the given action.	Check and ensure if the requested objectId is available and not deleted.
403 Forbidden	ADC_DASH_0029	No given object(s) have Write permission.	Check and ensure if the requested object has Read Write permission.

Sample Request/Response

- [Use Case](#)
- [Sample Request](#)
- [Sample Response](#)

Use Case

Trigger disable action on objects with resource id

lpm:@5f369cba0ca9846e86a13e82:@appviewx_pool:@Common::1.1.1.10:12:@Common

Sample Request

```
{  
  
  "payload": {  
  
    "objectIds": [  
  
      "lpm:@5f369cba0ca9846e86a13e82:@appviewx_pool:@Common::1.1.1.10:12:@Common"  
  
    ]  
  
  }  
  
}
```

Sample Response

```
{  
  
  "response": "Action triggered successfully.",  
  
  "message": "Action triggered for the following 1 objects :  
lpm:@5f369cba0ca9846e86a13e82:@appviewx_pool:@Common::1.1.1.10:12:@Common",  
  
  "appStatusCode": null,  
  
  "tags": null,  
  
  "headers": null  
  
}
```

Action - Forcedown Active Object

This API initiates action Forcedown active on one or more ADC objects for which the action applies to. Forcedown active action is supported on the following object types:

- F5 - LTM pool member
- [Before you begin](#)
- [Request Structure](#)
- [Payload](#)
- [Response Structure](#)
- [Status Codes](#)
- [Sample Request/Response](#)

Before you begin

Before attempting to initiate enable action with this API, users must ensure the ACF permission “ADC > ControlCenter > Actions > ForceDown active” is available. This can be checked under Accounts > Role > Authorized Functions.

Request Structure

URL: /adc-device-object-action-forcedown_active

Type: PUT

Param Type	Name	Description	Field Type	Constraints
Header	sessionId	Session ID received after login.	String	Required if username and password are not provided.
Header	username	AppViewX login username.	String	Required if sessionId is not provided.
Header	password	AppViewX login password.	String	Required if sessionId is not provided.
Header	Content-Type	Specifies the nature of the data in the payload.	String	Value of the param should be 'application/json'.

Param Type	Name	Description	Field Type	Constraints
Query	gwkey	Tenant Key. Needed only in case of mu.lti tenant installations.	String	
Query	gwsource	Source from which the request is triggered (Eg: web, external)	String	
Body	payload	Contains all the params to be sent in the request body for the put request.	Key value pair Payload	

Payload

Name	Mandatory	Description	Field Type	Constraints
objectIds	Yes	Resource ID of the objects. Use the search API to search/get the resource ID.	String[]	-

Response Structure

On 202 Accepted, the action will be initiated and string of type application/json will be returned with the following body params

Name	Description	Field Type
response	Success message or failure description in case of error.	String
message	Success message along with the objectIds or failure description in case of error.	String
appStatusCode	Application specific status code for the response. Will be non-null for failure response.	String
tags	More info in case of failure response.	Key value pair

Status Codes

HTTP Status Code	appStatusCode	Message	Possible remediation
202 Accepted	-	Action triggered for the following <n> objects : <resourceIds>	-
400 Bad Request	ADC_OBJ_ACTION_003	No object(s) not found to perform action.	Check if non-null/non-empty value is given in the payload field - "objectIds".
400 Bad Request	ADC_OBJ_ACTION_004	Action is invalid for the given objects.	Check for supported objects for the action and change the request objectId.
404 Not Found	ADC_CC_0501	No Objects found for performing the given action.	Check and ensure if the requested objectId is available and not deleted.
403 Forbidden	ADC_DASH_0029	No given object(s) have Write permission.	Check and ensure if the requested object has Read Write permission.

Sample Request/Response

- [Use Case](#)
- [Sample Request](#)
- [Sample Response](#)

Use Case

Trigger disable action on objects with resource id

IpM:@5f369cba0ca9846e86a13e82:@appviewx_pool:@Common::1.1.1.10:12:@Common

Sample Request

```
{  
  
  "payload": {  
  
    "objectIds": [  
  
      "ipm:@5f369cba0ca9846e86a13e82:@appviewx_pool:@Common::1.1.1.10:12:@Common"  
  
    ]  
  
  }  
  
}
```

Sample Response

```
{  
  
  "response": "Action triggered successfully.",  
  
  "message": "Action triggered for the following 1 objects :  
ipm:@5f369cba0ca9846e86a13e82:@appviewx_pool:@Common::1.1.1.10:12:@Common",  
  
  "appStatusCode": null,  
  
  "tags": null,  
  
  "headers": null  
  
}
```

Action - Graceful Disable Object

This API initiates action Graceful disable on one or more ADC objects to which the action applies to. Graceful disable is used to disable an object only when all the currently active client connections are closed by either the server or the client. Graceful disable action is supported on the following object types:

- [AVI - AVI Server](#)
- [Before you begin](#)
- [Request Structure](#)
- [Payload](#)
- [Response Structure](#)
- [Status Codes](#)
- [Sample Request/Response](#)

Before you begin

Before attempting to initiate graceful disable action with this API, users must ensure the ACF permission “ADC > ControlCenter > Actions > Enable/Disable/ForceDown” is available. This can be checked under Accounts > Role > Authorized Functions.

Request Structure

URL: /adc-device-object-action-gracefuldisable

Type: PUT

Param Type	Name	Description	Field Type	Constraints
Header	sessionId	Session ID received after login.	String	Required if username and password are not provided
Header	username	AppViewX login username.	String	Required if sessionId is not provided
Header	password	AppViewX login password.	String	Required if sessionId is not provided
Header	Content-Type	Specifies the nature of the data in the payload.	String	Value of the param should be 'application/json'.

Param Type	Name	Description	Field Type	Constraints
Query	gwkey	Tenant Key. Needed only in case of multi tenant installations.	String	
Query	gwsource	Source from which the request is triggered (Eg: web, external).	String	
Body	payload	Contains all the params to be sent in the request body for the put request.	Key value pair Payload	

Payload

Name	Mandatory	Description	Field Type	Constraints
objectIds	Yes	Resource ID of the objects. Use the search API to search/get the resource ID.	String[]	-

Response Structure

On 202 Accepted, the action will be initiated and string of type application/json will be returned with the following body params

Name	Description	Field Type
response	Success message or failure description in case of error.	String
message	Success message along with the objectIds or failure description in case of error.	String
appStatusCode	Application specific status code for the response. Will be non-null for failure response.	String
tags	More info in case of failure response.	Key value pair

Status Codes

HTTP Status Code	appStatusCode	Message	Possible remediation
202 Accepted	-	Action triggered for the following <n> objects : <resourceIds>	-
400 Bad Request	ADC_OBJ_ACTION_003	No object(s) not found to perform action.	Check if non-null/non-empty value is given in the payload field - "objectIds".
400 Bad Request	ADC_OBJ_ACTION_004	Action is invalid for the given objects.	Check for supported objects for the action and change the request objectId.
404 Not Found	ADC_CC_0501	No Objects found for performing the given action.	Check and ensure if the requested objectId is available and not deleted.
403 Forbidden	ADC_DASH_0029	No given object(s) have Write permission.	Check and ensure if the requested object has Read Write permission.

Sample Request/Response

- [Use Case](#)
- [Sample Request](#)
- [Sample Response](#)

Use Case

Trigger graceful disable action on objects with resource id -

aviserver:@5f369d260ca9846e86a13f30:@Pool_Other:@0.0.0.0:80:@aviserver:@Other:@0.0.0.0:@Default-Cloud

Sample Request

```
{  
  
  "payload": {  
  
    "objectIds": [ "aviserver:@5f369d260ca9846e86a13f30:@Pool_Other:@0.0.0.0:80:@aviserver:@Other:@0.0.0.0:@Default-Cloud"  
  
    ]  
  
  }  
  
}
```

Sample Response

```
{  
  
  "response": "Action triggered successfully.",  
  
  "message": "Action triggered for the following 1 objects :  
aviserver:@5f369d260ca9846e86a13f30:@Pool_Other:@0.0.0.0:80:@aviserver:@Other:@0.0.0.0:@Default-Cloud",  
  
  "appStatusCode": null,  
  
  "tags": null,  
  
  "headers": null  
  
}
```

Action - Enable Persistence for Object

This API initiates action Enable persistence on one or more ADC objects for which the action applies to. Enable persistence is used to turn on the tracking and storing of session data, which is used to ensure that client requests are directed to the same pool member throughout the life of a session or during subsequent sessions. Enable persistence action is supported on the following object types:

- F5 – Wideip
- [Before you begin](#)
- [Request Structure](#)
- [Payload](#)
- [Response Structure](#)
- [Status Codes](#)
- [Sample Request/Response](#)

Before you begin

Before attempting to initiate enable persistence action with this API, users must ensure the ACF permission “ADC > ControlCenter > Actions > Enable / Disable persistence” is available. This can be checked under Accounts > Role > Authorized Functions.

Request Structure

URL: */adc-device-object-action-enablepersistence*

Type: PUT

Param Type	Name	Description	Field Type	Constraints
Header	sessionId	Session ID received after login.	String	Required if username and password are not provided.
Header	username	AppViewX login username.	String	Required if sessionId is not provided.
Header	password	AppViewX login password.	String	Required if sessionId is not provided.
Header	Content-Type	Specifies the nature of the data in the payload.	String	Value of the param should be 'application/json'.
Query	gwkey	Tenant Key. Needed only in case of multi tenant installations.	String	
Query	gwsouce	Source from which the request is triggered (Eg: web, external).	String	

Param Type	Name	Description	Field Type	Constraints
Body	payload	Contains all the params to be sent in the request body for the put request.	Key value pair Payload	

Payload

Name	Mandatory	Description	Field Type	Constraints
objectIds	Yes	Resource ID of the objects. Use the search API to search/get the resource ID.	String[]	-

Response Structure

On 202 Accepted, the action will be initiated and string of type application/json will be returned with the following body params

Name	Description	Field Type
response	Success message or failure description in case of error.	String
message	Success message along with the objectIds or failure description in case of error.	String
appStatusCode	Application specific status code for the response. Will be non-null for failure response.	String
tags	More info in case of failure response.	Key value pair

Status Codes

HTTP Status Code	appStatusCode	Message	Possible remediation
202 Accepted	-	Action triggered for the following <n> objects : <resourceIds>	-
400 Bad Request	ADC_OBJ_ACTION_003	No object(s) not found to perform action.	Check if non-null/non-empty value is given in the payload field - "objectIds".
400 Bad Request	ADC_OBJ_ACTION_004	Action is invalid for the given objects.	Check for supported objects for the action and change the request objectId.
404 Not Found	ADC_CC_0501	No Objects found for performing the given action.	Check and ensure if the requested objectId is available and not deleted.
403 Forbidden	ADC_DASH_0029	No given object(s) have Write permission.	Check and ensure if the requested object has Read Write permission.

Sample Request/Response

- [Use Case](#)
- [Sample Request](#)
- [Sample Response](#)

Use Case

Trigger enable persistence action on objects with resource id

gw:@5f369cba0ca9846e86a13e82:@192.168.112.63:@Common,gw:@5f369cba0ca9846e86a13e82:@192.168.55.248:@

Sample Request

```
{  
  
  "payload": {  
  
    "objectIds": [  
  
      "gw:@5f369cba0ca9846e86a13e82:@192.168.112.63:@Common",  
  
      "gw:@5f369cba0ca9846e86a13e82:@192.168.55.248:@Common"  
  
    ]  
  
  }  
  
}
```

Sample Response

```
{  
  
  "response": "Action triggered successfully.",  
  
  "message": "Action triggered for the following 2 objects :  
gw:@5f369cba0ca9846e86a13e82:@192.168.112.63:@Common,gw:@5f369cba0ca9846e86a13e82:@192.168.55.248:@Common",  
  
  "appStatusCode": null,  
  
  "tags": null,  
  
  "headers": null  
  
}
```

Action - Disable Persistence for Object

This API initiates action Disable persistence on one or more ADC objects for which the action applies to. Disable persistence is used to turn off the tracking and storing of session data, which is used to ensure that client requests are directed to the same pool member throughout the life of a session or during subsequent sessions. Enable persistence action is supported on the following object types:

- F5 – Wideip
- [Before you begin](#)
- [Request Structure](#)
- [Payload](#)
- [Response Structure](#)
- [Status Codes](#)
- [Sample Request/Response](#)

Before you begin

Before attempting to initiate disable persistence action with this API, users must ensure the ACF permission “ADC > ControlCenter > Actions > Enable / Disable persistence” is available. This can be checked under Accounts > Role > Authorized Functions.

Request Structure

URL: */adc-device-object-action-disablepersistence*

Type: PUT

Param Type	Name	Description	Field Type	Constraints
Header	sessionId	Session ID received after login.	String	Required if username and password are not provided.
Header	username	AppViewX login username.	String	Required if sessionId is not provided.
Header	password	AppViewX login password.	String	Required if sessionId is not provided

Param Type	Name	Description	Field Type	Constraints
Header	Content-Type	Specifies the nature of the data in the payload.	String	Value of the param should be 'application/json'.
Query	gwkey	Tenant Key. Needed only in case of multi tenant installations.	String	
Query	gwsouce	Source from which the request is triggered (Eg: web, external).	String	
Body	payload	Contains all the params to be sent in the request body for the put request.	Key value pair Payload	

Payload

Name	Mandatory	Description	Field Type	Constraints
objectIds	Yes	Resource ID of the objects. Use the search API to search/get the resource ID.	String[]	-

Response Structure

On 202 Accepted, the action will be initiated and string of type application/json will be returned with the following body params

Name	Description	Field Type
response	Success message or failure description in case of error.	String
message	Success message along with the objectIds or failure description in case of error.	String
appStatusCode	Application specific status code for the response. Will be non-null for failure response.	String
tags	More info in case of failure response.	Key value pair

Status Codes

HTTP Status Code	appStatusCode	Message	Possible remediation
202 Accepted	-	Action triggered for the following <n> objects : <resourceIds>	-
400 Bad Request	ADC_OBJ_ACTION_003	No object(s) not found to perform action.	Check if non-null/non-empty value is given in the payload field - "objectIds".
400 Bad Request	ADC_OBJ_ACTION_004	Action is invalid for the given objects.	Check for supported objects for the action and change the request objectId.
404 Not Found	ADC_CC_0501	No Objects found for performing the given action.	Check and ensure if the requested objectId is available and not deleted.
403 Forbidden	ADC_DASH_0029	No given object(s) have Write permission.	Check and ensure if the requested object has Read Write permission.

Sample Request/Response

- [Use Case](#)
- [Sample Request](#)
- [Sample Response](#)

Use Case

Trigger disable persistence action on objects with resource id

gw:@<objectid>:@192.168.112.63:@Common,gw:@5f369cba0ca9846e86a13e82:@192.168.55.248:@Common



Note: <objectid> represents your object ID.

Sample Request

```
{  
  
  "payload": {  
  
    "objectIds": [  
  
      "gw:@5f369cba0ca9846e86a13e82:@192.168.112.63:@Common",  
  
      "gw:@5f369cba0ca9846e86a13e82:@192.168.55.248:@Common"  
  
    ]  
  
  }  
  
}
```

Sample Response

```
{  
  
  "response": "Action triggered successfully.",  
  
  "message": "Action triggered for the following 2 objects :  
gw:@5f369cba0ca9846e86a13e82:@192.168.112.63:@Common,gw:@5f369cba0ca9846e86a13e82:@192.168.55.248:@Common",  
  
  "appStatusCode": null,  
  
  "tags": null,  
  
  "headers": null  
  
}
```

Action - Clear Persistence Record

This API initiates action Clear persistence records on one or more ADC objects for which the action applies to. Clear persistence action is supported on the following object types:

- F5 – Virtual Server, LTM pool
- [Before you begin](#)
- [Request Structure](#)
- [Payload](#)
- [Response Structure](#)
- [Status Codes](#)
- [Sample Request/Response](#)

Before you begin

Before attempting to initiate Clear persistence records action with this API, users must ensure the ACF permission “ADC > ControlCenter > Actions > Clear persistence connections” is available. This can be checked under Accounts > Role > Authorized Functions.

Request Structure

URL: */adc-device-object-action-clearpersistencerecords*

Type: PUT

Param Type	Name	Description	Field Type	Constraints
Header	sessionId	Session ID received after login.	String	Required if username and password are not provided.
Header	username	AppViewX login username.	String	Required if .sessionId is not provided
Header	password	AppViewX login password.	String	Required if sessionId is not provided.
Header	Content-Type	Specifies the nature of the data in the payload.	String	Value of the param should be 'application/json'.

Param Type	Name	Description	Field Type	Constraints
Query	gwkey	Tenant Key. Needed only in case of multi tenant installations.	String	
Query	gwsource	Source from which the request is triggered (Eg: web, external).	String	
Body	payload	Contains all the params to be sent in the request body for the put request	Key value pair Payload	

Payload

Name	Mandatory	Description	Field Type	Constraints
objectIds	Yes	Resource ID of the objects. Use the search API to search/get the resource ID.	String[]	-

Response Structure

On 202 Accepted, the action will be initiated and string of type application/json will be returned with the following body params

Name	Description	Field Type
response	Success message or failure description in case of error.	String
message	Success message along with the objectIds or failure description in case of error.	String
appStatusCode	Application specific status code for the response. Will be non-null for failure response.	String
tags	More info in case of failure response.	Key value pair

Status Codes

HTTP Status Code	appStatusCode	Message	Possible Remediation
202 Accepted	-	Action triggered for the following <n> objects : <resourceIds>	-
400 Bad Request	ADC_OBJ_ACTION_003	No object(s) not found to perform action.	Check if a non-null/non-empty value is given in the payload field - "objectIds".
400 Bad Request	ADC_OBJ_ACTION_004	Action is invalid for the given objects.	Check for supported objects for the action and change the request objectId.
404 Not Found	ADC_CC_0501	No Objects found for performing the given action.	Check and ensure if the requested objectId is available and not deleted.
403 Forbidden	ADC_DASH_0029	No given object(s) have Write permission.	Check and ensure if the requested object has Read Write permission.

Sample Request/Response

- [Use Case](#)
- [Sample Request](#)
- [Sample Response](#)

Use Case

Trigger clear persistence record action on objects with resource id -
vs:@5f369cc20ca9846e86a13e99:@ACLTest:@Common

Sample Request

```
{  
  
  "payload": {  
  
    "objectIds": [  
  
      "vs:@5f369cc20ca9846e86a13e99:@ACLTest:@Common"  
  
    ]  
  
  }  
  
}
```

Sample Response

```
{  
  
  "response": "Action triggered successfully.",  
  
  "message": "Action triggered for the following 1 objects : vs:@5f369cc20ca9846e86a13e99:@ACLTest:@Common",  
  
  "appStatusCode": null,  
  
  "tags": null,  
  
  "headers": null  
  
}
```

Action - Set Service Down Value

This API initiates action Set service down on one or more ADC objects for which the action applies to. Action Service Down is supported on the following object types:

- F5 - LTM pool
- [Before you begin](#)
- [Request Structure](#)
- [Payload](#)
- [Response Structure](#)
- [Status Codes](#)
- [Sample Request/Response](#)

Before you begin

Before attempting to initiate set service down action with this API, users must ensure the ACF permission “ADC > ControlCenter > Actions > Service down” is available. This can be checked under Accounts > Role > Authorized Functions.

Request Structure

URL: */adc-device-object-action-servicedown*

Type: PUT

Param Type	Name	Description	Field Type	Constraints
Header	sessionId	Session ID received after login.	String	Required if username and password are not provided.
Header	username	AppViewX login username	String	Required if sessionId is not provided.
Header	password	AppViewX login password.	String	Required if sessionId is not provided.
Header	Content-Type	Specifies the nature of the data in the payload.	String	Value of the param should be 'application/json'.
Query	gwkey	Tenant Key. Needed only in case of multi tenant installations.	String	
Query	gwsouce	Source from which the request is triggered (Eg: web, external)	String	

Param Type	Name	Description	Field Type	Constraints
Body	payload	Contains all the params to be sent in the request body for the put request	Key value pair Payload	

Payload

Name	Mandatory	Description.	Field Type	Constraints
objects	Yes	Object information containing resource ID and parent resource ID.	Key value pair[] Object Details	-
serviceDown	Yes	Service down value to set. Possible service down values - none,reset,reset,drop.	String	It accepts only alphanumeric characters, '-', ':', '_', '(', ')'.

Response Structure

On 202 Accepted, the action will be initiated and string of type application/json will be returned with the following body params

Name	Description	Field Type
response	Success message or failure description in case of error.	String
message	Success message along with the objectIds or failure description in case of error.	String
appStatusCode	Application specific status code for the response. Will be non-null for failure response.	String
tags	More info in case of failure response.	Key value pair

Status Codes

HTTP Status Code	appStatusCode	Message	Possible Remediation
202 Accepted	-	Action triggered for the following <n> object(s) : <resourceIds>	-
400 Bad Request	ADC_CC_05014	Invalid input. Please provide 'serviceDown' to perform action!	Check and ensure if a non-null/non-empty value is given in payload field - 'serviceDown'.
400 Bad Request	ADC_OBJ_ACTION_001	Object id not found.	Check and ensure if a non-null/non-empty value is given in payload field - 'objects._id'.
400 Bad Request	ADC_OBJ_ACTION_002	parent object id not found.	Check and ensure if a non-null/non-empty value is given in the payload field - 'objects.parent_id'.
400 Bad Request	ADC_OBJ_ACTION_003	No object(s) not found to perform action.	Check and ensure if a non-null/non-empty value is given in the payload field - 'objects'.
400 Bad Request	ADC_OBJ_ACTION_004	Action is invalid for the given objects.	Check for supported objects for the action and change the request objectId.
403 Forbidden	ADC_DASH_0029	No given object(s) have Write permission.	Check and ensure if the requested object has Read Write permission.
403 Forbidden	ADC_INV_1077	Action cannot be performed on unmanaged device object(s).	-

Sample Request/Response

- Use Case
- Sample Request
- Sample Response

Use Case

Set service down value to reselect on object with resource id -

lp:@5f4393cd80d9c82e890183ce:@tets.avx.com_pool:@Common with parent object -

vs:@5f4393cd80d9c82e890183ce:@DC_vs:@Common

Sample Request

```
{  
  
  "payload": {  
  
    "objects": [  
  
      {  
  
        "_id": "lp:@5f4393cd80d9c82e890183ce:@tets.avx.com_pool:@Common",  
  
        "parent_id": "vs:@5f4393cd80d9c82e890183ce:@DC_vs:@Common"  
  
      }  
  
    ],  
  
    "serviceDown": "reselect"  
  
  }  
  
}
```

Sample Response

```
{  
  
  "response": "Action triggered successfully.",  
  
  "message": "Action triggered for the following 1 object(s) : lp:@5f4393cd80d9c82e890183ce:@tets.avx.com_pool:@Common",  
  
  "appStatusCode": null,  
  
  "tags": null,  
  
  "headers": null  
  
}
```

Get Objects in Constant Status

This API fetches the ADC objects that remain in a constant status for Last N days. In the response lastFlipDate fields gives the details of last state flip occurred date from which object state of the object was not flipped.

Supported Vendor : F5

- [Before You Begin](#)
- [Request Structure](#)
- [Payload](#)
- [Response Structure](#)
- [Status Codes](#)
- [Sample Request/Response](#)

Before You Begin

Before attempting to get objects in the constant state with this API, users must ensure any of the ACF permission from **ADC > Control Center**, **ADC > Dashboard > Application Widget**, or **ADC > Orphan objects** is available. This can be checked under **Accounts > Role > Authorized Functions**.

Request Structure

URL: /adc-constant-object-status-fetch

Type: POST

Param Type	Name	Description	Field Type	Constraints
Header	sessionId	Session ID received after login.	String	Required if username and password are not provided.
Header	username	AppViewX login username.	String	Required if sessionId is not provided.
Header	password	AppViewX login password.	String	Required if sessionId is not provided.
Header	Content-Type	Specifies the nature of the data in the payload.	String	Value of the param should be 'application/json'.
Query	gwkey	Tenant Key. Needed only in case of multi tenant installations.	String	
Query	gwsouce	Source from which the request is triggered (Eg: web, external).	String	
Body	payload	Contains all the params to be sent in the request body for the put request.	Key value pair Payload	

Payload

Name	Mandatory	Description	Field Type	Constraints
objectType	Yes	Object Types. Should be left empty if object type is not needed to include in query.	String[]	Possible values : widelp, widelp Pool, widelp PoolMember, childWidelp, server,VirtualServer, Pool, ltmPoolMember, VirtualAddress, LTM Server.

Name	Mandatory	Description	Field Type	Constraints
deviceName	No	Name of the device(s).	String[]	It can contain only alphanumeric characters, '-', '_', ':', '*', ' ', '!'. .
status	Yes	Status of the object.	String	Possible Values: "OFFLINE", "UNKNOWN", "AVAILABLE", "OFFLINE (But may become available again)" .
lastNDays	Yes	Last 'N' no. of days for which an object remained in constant state.	Integer	-

Response Structure

200 OK, returns string of type application/json with the following body params

Name	Description	Field Type
response	Contains the response for objects in requested status for lastNDays requested.	Key Value Pair[] State Status Drift Response
message	Success message along with the objectIds or failure description in case of error.	String
appStatusCode	Application specific status code for the response. Will be non-null for failure response.	String
tags	More info in case of failure response.	Key value pair

Status Codes

HTTP Status Code	appStatusCode	Message	Possible Remediation
200 OK	-	-	-

HTTP Status Code	appStatusCode	Message	Possible Remediation
400 Bad Request	ADC_DASH_1604	Invalid Input: Mandatory fields 'status' is missing	Check and ensure if a non-null/non-empty value is given in payload field - 'status'.
400 Bad Request	ADC_DASH_1605	Invalid Input: Mandatory field 'lastNDays' is missing	Check and ensure if a non-null and a valid integer value is given in the field - 'lastNDays'.
400 Bad Request	ADC_DASH_0002	Invalid Input	Check the type of the request fields - objectType,deviceName and lastNDays. Expected field types: <ul style="list-style-type: none"> • lastNDays - Integer • deviceName - String[] • objectType - String[]
404 Not Found	ADC_DASH_1608	No objects found for the given input.	<ul style="list-style-type: none"> • Check if the requested objects have Read or ReadWrite permission. • Refine the search query.

Sample Request/Response

- [Use Case](#)
- [Sample Request](#)
- [Sample Response](#)

Use Case

Get Ltm pool member objects which remained in status - "OFFLINE" for the last 2 days.

Sample Request

```
{
```

```
"payload": {  
  
  "objectType": [  
  
    "lrmPoolMember"  
  
  ],  
  
  "status": "OFFLINE",  
  
  "lastNDays": 2  
  
}
```

Sample Response

```
{  
  
  "response": [  
  
    {  
  
      "objectId": "lpm:@5f4e3423fcbb9809756c6b82:@testweb:@Common:test:443:@Common",  
  
      "objectName": "test:443",  
  
      "objectType": "LTM Pool Member",  
  
      "deviceId": "5f4e3423fcbb9809756c6b82",  
  
      "deviceName": "192.168.41.233",  
  
      "vendor": "F5",  
  
      "state": null,  
  
    }  
  
  ]  
  
}
```

```
"status": "OFFLINE",

"displayName": "test:443/one.appviewx.com:443/testweb/192.168.41.233/F5",

"effectiveDays": 0,

"lastFlipDate": "2020-09-01"

}

],

"message": null,

"appStatusCode": null,

"tags": null,

"headers": null

}
```

Get Objects in Constant State

This API fetches the ADC objects that remain in a constant state for Last N days. In the response lastFlipDate fields gives the details of the last state flip occurred date from which object state of the object was not flipped.

Supported Vendor : F5

- [Before You Begin](#)
- [Request Structure](#)
- [Payload](#)
- [Response Structure](#)

- [Status Codes](#)
- [Sample Request/Response](#)

Before You Begin

Before attempting to get objects in the constant state with this API, users must ensure any of the ACF permission from **ADC > Control Center**, **ADC > Dashboard > Application Widget**, or **ADC > Orphan objects** is available. This can be checked under **Accounts > Role > Authorized Functions**.

Request Structure

URL: /adc-constant-object-state-fetch

Type: POST

Param Type	Name	Description	Field Type	Constraints
Header	sessionId	Session ID received after login.	String	Required if username and password are not provided.
Header	username	AppViewX login username.	String	Required if sessionId is not provided.
Header	password	AppViewX login password.	String	Required if sessionId is not provided.
Header	Content-Type	Specifies the nature of the data in the payload.	String	Value of the param should be 'application/json'.
Query	gwkey	Tenant Key. Needed only in case of multi tenant installations.	String	
Query	gwsouce	Source from which the request is triggered (Eg: web, external).	String	
Body	payload	Contains all the params to be sent in the request body for the put request.	Key value pair Payload	

Payload

Name	Mandatory	Description	Field Type	Constraints
objectType	Yes	Object Types. Should be left empty if object type is not needed to include in query.	String[]	Possible values : widelp, widelp Pool, widelp PoolMember, childWidelp, server,VirtualServer, Pool, ltmPoolMember, VirtualAddress, LTM Server.
deviceName	No	Name of the device(s).	String[]	It can contain only alphanumeric characters, '-', '_', '.', '*', ' ', '!'.
state	Yes	State of the object.	String	Possible Values: 'ENABLED', 'DISABLED', 'DISABLED_BY_PARENT'.
lastNDays	Yes	Last 'N' no. of days for which an object remained in constant state.	Integer	-

Response Structure

200 OK, returns string of type application/json with the following body params

Name	Description	Field Type
response	Contains the response for objects in requested state for lastNDays requested.	Key Value Pair[] Status Drift Response
message	Success message along with the objectIds or failure description in case of error.	String
appStatusCode	Application specific status code for the response. Will be non-null for failure response.	String
tags	More info in case of failure response.	Key value pair

Status Codes

HTTP Status Code	appStatusCode	Message	Possible remediation
200 OK	-	-	-
400 Bad Request	ADC_DASH_1607	Invalid Input: Mandatory fields 'state' is missing.	Check and ensure if a non-null/non-empty value is given in payload field - 'state'.
400 Bad Request	ADC_DASH_1605	Invalid Input: Mandatory field 'lastNDays' is missing.	Check and ensure if a non-null and a valid integer value is given in field - 'lastNDays'
400 Bad Request	ADC_DASH_0002	Invalid Input	<p>Check the type of the request fields - objectType,deviceName and lastNDays.</p> <p>Expected field types:</p> <ul style="list-style-type: none"> • lastNDays - Integer • deviceName - String[] • objectType - String[]
404 Not Found	ADC_DASH_1608	No objects found for the given input.	<ul style="list-style-type: none"> • Check if the requested objects have Read or ReadWrite permission. • Refine the search query.

Sample Request/Response

- [Use Case](#)
- [Sample Request](#)
- [Sample Response](#)

Use Case

Get Ltm pool member objects which remained in state - "ENABLED" for the last 2 days.

Sample Request

```
{  
  
  "payload": {  
  
    "objectType": [  
  
      "lrmPoolMember"  
  
    ],  
  
    "state": "ENABLED",  
  
    "lastNDays": 2  
  
  }  
  
}
```

Sample Response

```
{  
  
  "response": [  
  
    {  
  
      "objectId": "lrm:@5f4e2ffafcb9809756c6b4d:@perf56testpool77:@Common::15.1.77.3:80:@Common",  
  
      "objectName": "15.1.77.3:80",  
  
      "objectType": "LTM Pool Member",  
  
      "deviceId": "5f4e2ffafcb9809756c6b4d",  
  
      "deviceName": "192.168.40.214",  
  
    }  
  
  ]  
  
}
```

```
"vendor": "F5",

"state": "ENABLED",

"status": null,

"displayName": "15.1.77.3:80/15.1.77.3:80/perf56testpool77/192.168.40.214/F5",

"effectiveDays": 0,

"lastFlipDate": "2020-09-01"

}

],

"message": null,

"appStatusCode": null,

"tags": null,

"headers": null

}
```

Get Object Status Trend

This API fetches the status flip history of the given object. It will respond with the last N status flip history of an object. By default N is configured as 100 based on the usage and N can be configured.

Supported Vendor : F5

- [Before You Begin](#)
- [Request Structure](#)
- [Response Structure](#)

- [Status Codes](#)
- [Sample Request/Response](#)

Before You Begin

Before attempting to get an object status trend with this API, users must ensure any of the ACF permission from ADC > Control Center, ADC > Dashboard > Application Widget, or ADC > Orphan objects is available. This can be checked under Accounts > Role > Authorized Functions.

Request Structure

URL: /adc-object-status-trend-fetch

Type: GET

Param Type	Name	Description	Field Type	Constraints
Header	sessionId	Session ID received after login.	String	Required if username and password are not provided.
Header	username	AppViewX login username.	String	Required if sessionId is not provided.
Header	password	AppViewX login password.	String	Required if sessionId is not provided.
Query	gwkey	Tenant Key. Needed only in case of multi tenant installations.	String	
Query	gwsouce	Source from which the request is triggered (Eg: web, external)	String	
Query	objectId	Resource ID of the object. Use the search API to search/get the resource ID.	String	
Query	lastNCounts	Optional. Last no of flip records to fetch. Maximum value supported is 100. Default value will be 100.	Integer	

Response Structure

200 OK, returns string of type application/json with the following body params

Name	Description	Field Type
response	Contains the response for requested objects last 'N' flip history .	Key Value Pair[] State Status Drift Response
message	Success message along with the objectIds or failure description in case of error.	String
appStatusCode	Application specific status code for the response. Will be non-null for failure response.	String
tags	More info in case of failure response.	Key value pair

Status Codes

HTTP Status Code	appStatusCode	Message	Possible remediation
200 OK	-	-	-
400 Bad Request	ADC_DASH_1606	Invalid Input: Mandatory fields 'objectId' is missing	Check and ensure if a non-null/non-empty value is given in the query param field - 'objectId'.
400 Bad Request	ADC_DASH_0035	Invalid Input	Check the type of the query param field - lastNCounts. Expected type is Integer.
404 Not Found	ADC_DASH_1608	No objects found for the given input	<ul style="list-style-type: none"> • Check if the requested objects have Read or ReadWrite permission. • Refine the search query.

Sample Request/Response

- [Use Case](#)
- [Request URL](#)

- [Sample Request](#)
- [Sample Response](#)

Use Case

Get last 5 status flip trend for objectId -

lpm:@5f4e3091a7452e427bcde52:@newlmpool:@Common::12.9.1.0:21:@Common

Request URL

http://192.168.95.147:5300/avxapi/adc-object-status-trend-fetch?

objectId=lpm:@5f4e3091a7452e427bcde52:@newlmpool:@Common::12.9.1.0:21:@Common&lastNCounts=5&gwkey=

Sample Request

NA

Sample Response

```
{  
  
  "response": [  
  
    {  
  
      "objectId": "lpm:@5f4e3091a7452e427bcde52:@newlmpool:@Common::12.9.1.0:21:@Common",  
  
      "objectName": "12.9.1.0:21",  
  
      "objectType": "LTM Pool Member",  
  
      "deviceId": "5f4e3091a7452e427bcde52",  
  
      "deviceName": "gs-f5-pe109.lab.appviewx.net",  
  
      "vendor": "F5",  
  
      "state": null,  
  
    }  
  
  ]  
}
```

```
"status": "OFFLINE",

"displayName": "12.9.1.0:21/12.9.1.0:21/newlmpool/gs-f5-pe109.lab.appviewx.net/F5",

"effectiveDays": 0,

"lastFlipDate": "2020-09-01"

}

],

"message": null,

"appStatusCode": null,

"tags": null,

"headers": null

}
```

Get Object State Trend

This API fetches the state flip history of the given object. API will respond with the last N state flip history of an object. By default N is configured as 100 based on the usage and N can be configured.

Supported Vendor: F5

- [Get Object State Trend Before You Begin](#)
- [Request Structure](#)
- [Response Structure](#)
- [Status Codes](#)
- [Sample Request/Response](#)

Get Object State Trend Before You Begin

Before attempting to get an object state trend with this API, users must ensure any of the ACF permission from ADC > Control Center, ADC > Dashboard > Application Widget, or ADC > Orphan objects is available. This can be checked under Accounts > Role > Authorized Functions.

Request Structure

URL: /adc-object-state-trend-fetch

Type: GET

Param Type	Name	Description	Field Type	Constraints
Header	sessionId	Session ID received after login.	String	Required if username and password are not provided.
Header	username	AppViewX login username.	String	Required if sessionId is not provided.
Header	password	AppViewX login password.	String	Required if sessionId is not provided.
Query	gwkey	Tenant Key. Needed only in case of multi tenant installations	String	
Query	gwsouce	Source from which the request is triggered (Eg: web, external)	String	
Query	objectId	Resource ID of the object. Use the search API to search/get the resource ID.	String	
Query	lastNCounts	Optional. Last no of flip records to fetch. Maximum value supported is 100. Default value will be 100.	Integer	

Response Structure

200 OK, returns string of type application/json with the following body params

Name	Description	Field Type
response	Contains the response for requested objects last 'N' flip history.	Key Value Pair[] State Status Drift Response
message	Success message along with the objectIds or failure description in case of error.	String
appStatusCode	Application specific status code for the response. Will be non-null for failure response.	String
tags	More info in case of failure response.	Key value pair

Status Codes

HTTP Status Code	appStatusCode	Message	Possible remediation
200 OK	-	-	-
400 Bad Request	ADC_DASH_1606	Invalid Input: Mandatory fields 'objectId' is missing.	Check and ensure if a non-null/non-empty value is given in the query param field - 'objectId'.
400 Bad Request	ADC_DASH_0035	Invalid Input.	Check the type of the query param field - lastNCounts. Expected type is Integer.
404 Not Found	ADC_DASH_1608	No objects found for the given input.	<ul style="list-style-type: none"> • Check if the requested objects have Read or ReadWrite permission. • Refine the search query.

Sample Request/Response

- [Use Case](#)
- [Request URL](#)

- [Sample Request](#)
- [Sample Response](#)

Use Case

Get last 5 state flip trend for objectId -

lpm:@5f4e3091a7452e427bcde52:@newlmpool:@Common::12.9.1.0:21:@Common

Request URL

http://192.168.95.147:5300/avxapi/adc-object-state-trend-fetch?

objectId=lpm:@5f4e3091a7452e427bcde52:@newlmpool:@Common::12.9.1.0:21:@Common&lastNCounts=5&gwkey=

Sample Request

NA

Sample Response

```
{
  "response": [
    {
      "objectId": "lpm:@5f4e3091a7452e427bcde52:@newlmpool:@Common::12.9.1.0:21:@Common",
      "objectName": "12.9.1.0:21",
      "objectType": "LTM Pool Member",
      "deviceId": "5f4e3091a7452e427bcde52",
      "deviceName": "gs-f5-pe109.lab.appviewx.net",
      "vendor": "F5",
      "state": "DISABLED",
    }
  ]
}
```

```
"status": null,

"displayName": "12.9.1.0:21/12.9.1.0:21/newlmpool/g5-f5-pe109.lab.appviewx.net/F5",

"effectiveDays": 0,

"lastFlipDate": "2020-09-02"

},

{

"objectId": "lpm:@5f4e3091a7452e427bcde52:@newlmpool:@Common::12.9.1.0:21:@Common",

"objectName": "12.9.1.0:21",

"objectType": "LTM Pool Member",

"deviceId": "5f4e3091a7452e427bcde52",

"deviceName": "gs-f5-pe109.lab.appviewx.net",

"vendor": "F5",

"state": "DISABLED",

"status": null,

"displayName": "12.9.1.0:21/12.9.1.0:21/newlmpool/g5-f5-pe109.lab.appviewx.net/F5",

"effectiveDays": 1,

"lastFlipDate": "2020-09-01"

}
```

```

},

"message": null,

"appStatusCode": null,

"tags": null,

"headers": null

}

```

State Status Drift Response

Name	Description	Field Type
objectName	Name of the object.	String
objectId	Resource Id of the object in AppViewX.	String
objectType	Object type as mentioned in AppViewX.	String
deviceId	Resource ID of the device to which the object belongs.	String
deviceName	Name of the device to which the object belongs.	String
vendor	Vendor of the device to which the object belongs.	String
displayName	DisplayName given for the object in AppViewX.	String
status	Status of the object.	String
state	State of the object.	String
effectiveDays	No of days the object remained in a state/status. Effective days will be 0 for the latest record (i.e) the active record.	Integer
lastFlipDate	Date on which the state/status of the object flipped to its current state/status. Date Format:YYYY-MM-DD.	String

- Possible LoadBalancing Modes
- Input Keys For Device
- Supported Object Type/Object Code

Possible LoadBalancing Modes

Vendor	ObjectType	Possible LB Modes
F5	LTM Pool	'round-robin','ratio-member','least-connections-member','observed-member','predictive-member','ratio-node','least-connections-node','fastest-node','observed-node','predictive-node','dynamic-ratio-node','fastest-app-response','least-sessions','dynamic-ratio-member','weighted-least-connections-member','weighted-least-connections-node','ratio-session','ratio-least-connections-member','ratio-least-connections-node'
AVI	SLB Pool	'LB_ALGORITHM_CONSISTENT_HASH','LB_ALG

Input Keys For Device

Name	Mandatory	Description	Field Type	Constraints
name	No	Name of the device.	String	It can contain only alphanumeric characters, '-', '_', ':', '*', ' ', '!.
ip	No	IP of the device.	String	-

Name	Mandatory	Description	Field Type	Constraints
vendor	No	Vendor of the device. Eg.:F5, AVI,etc.	String	-
version	No	Version of the device.	String	It only accepts alphanumeric characters, '-', ':', '.', '_' and space.
dataCenter	No	Data center of the device.	String	-
status	No	Status of the device in inventory.	String	Possible values are: Managed", "UnManaged", "Unresolved", "Failed", "Inprogress", "Queued".
haActive	No	Ha state of the device. Active/ StandBy.	String	-
syncFailoverGroupName	No	Failover group name of the device.	String	-

Supported Object Type/Object Code

Vendor	Object Code	Object Type	Description
F5	vs	Virtual Server	LTM Virtual server
F5	lpm	Pool Member	LTM pool member
F5	lm	LTM Monitor	LTM Monitor
F5	lpr	Profile	Profile
F5	lr	LTM iRule	LTM i-rule
F5	lmpersistence	LTM Persistence	LTM Persistence
F5	gw	WideIP	GTM Wide IP

Vendor	Object Code	Object Type	Description
F5	gpm	Pool Member	GTM pool member
F5	gp	GTM Pool	GTM pool
F5	gm	GTM Monitor	GTM monitor
F5	gs	GTM Server	GTM Server
F5	gr	GTM iRule	GTM i-rule
AVI	avivsv	Virtual Service	Virtual Service
AVI	avipool	Pool	Pool
AVI	aviserver	Server	Server
AVI	aviAppProfile	Application Profile	Application Profile
AVI	aviNwProfile	Network Profile	Network Profile
AVI	aviAnlProfile	Analytical Profile	Analytical Profile
AVI	aviSslProfile	Ssl Profile	Ssl Profile
AVI	aviAppPerProfile	Application Persistence Profile	Application Persistence Profile
AVI	aviPkiProfile	Pki Profile	Pki Profile
AVI	aviMonitor	Monitor	Monitor
AVI	aviIpGroup	Ip Group	Ip Group
AVI	aviNsRule	Network Security Rule	Network Security Rule
AVI	aviHttpSecRule	Http Security Rule	Http Security Rule
AVI	aviHttpReqRule	Http Request Rule	Http Request Rule
AVI	aviHttpResRule	Http Response Rule	Http Response Rule
AVI	aviDataScript	Data Script	Data Script
NginxPlus	nserver	LB Server	LB Server
NginxPlus	nupstream	Upstream	Upstream
NginxPlus	nbackendserver	Upstream Server	Upstream Server

Action - Set Loadbalancing Method

This API is used to initiate action Set load balancing method on one or more ADC objects for which the action applies to. Suspend action is supported on the following object types:

- F5 – LTM pools
- AVI - SLB Pool
- [Before you begin](#)
- [Request Structure](#)
- [Payload](#)
- [Response Structure](#)
- [Status Codes](#)
- [Sample Request/Response](#)

Before you begin

Before attempting to initiate suspend action with this API, users must ensure the ACF permission “ADC > ControlCenter > Actions > LB mode” is available. This can be checked under Accounts > Role > Authorized Functions.

Request Structure

URL: */adc-device-object-action-lbmethod*

Type: PUT

Param Type	Name	Description	Field Type	Constraints
Header	sessionId	Session ID received after login.	String	Required if username and password are not provided.
Header	username	AppViewX login username.	String	Required if sessionId is not provided.
Header	password	AppViewX login password.	String	Required if sessionId is not provided.

Param Type	Name	Description	Field Type	Constraints
Header	Content-Type	Specifies the nature of the data in the payload.	String	Value of the param should be 'application/json'.
Query	gwkey	Tenant Key. Needed only in case of multi tenant installations.	String	
Query	gwsouce	Source from which the request is triggered (Eg: web, external).	String	
Body	payload	Contains all the params to be sent in the request body for the put request.	Key value pair Payload	

Payload

Name	Mandatory	Description	Field Type	Constraints
objects	Yes	Object information containing resource id and parent resource id.	Key value pair[] Object details	-
lbMode	Yes	Load balancing mode to set. Possibles values for lbMode can be found here .	String	-

Response Structure

On 202 Accepted, the action will be initiated and string of type application/json will be returned with the following body params

Name	Description	Field Type
response	Success message or failure description in case of error.	String
message	Success message along with the objectIds or failure description in case of error.	String

Name	Description	Field Type
appStatusCode	Application specific status code for the response. Will be non-null for failure response.	String
tags	More info in case of failure response.	Key value pair

Status Codes

HTTP Status Code	appStatusCode	Message	Possible remediation
202 Accepted	-	Action triggered for the following <n> object(s) : <resourceIds>	-
400 Bad Request	ADC_CC_05014	Invalid input. Please provide 'lbMode' to perform action!	Check and ensure if a non-null/non-empty value is given in the payload field - 'lbMode'.
400 Bad Request	ADC_OBJ_ACTION_001	Object id not found.	Check and ensure if a non-null/non-empty value is given in payload field - 'objects._id'.
400 Bad Request	ADC_OBJ_ACTION_002	parent object id not found.	Check and ensure if a non-null/non-empty value is given in the payload field - 'objects.parent_id'.
400 Bad Request	ADC_OBJ_ACTION_003	No object(s) not found to perform action.	Check and ensure if a non-null/non-empty value is given in the payload field - 'objects'.
400 Bad Request	ADC_OBJ_ACTION_004	Action is invalid for the given objects.	Check for supported objects for the action and change the request objectId.
403 Forbidden	ADC_DASH_0029	No given object(s) have Write permission.	Check and ensure if the requested object has Read Write permission.
403 Forbidden	ADC_INV_1077	Action cannot be performed on	-

HTTP Status Code	appStatusCode	Message	Possible remediation
		unmanaged device object(s)	

Sample Request/Response

- [Use Case](#)
- [Sample Request](#)
- [Sample Response](#)

Use Case

Trigger set load balancing mode action on object with resource id -
 lp:@5f369cc10ca9846e86a13e95:@ms_pool_1:@Common

Sample Request

```
{
  "payload": {
    "objects": [
      {
        "_id": "lp:@5f369cc10ca9846e86a13e95:@ms_pool_1:@Common",
        "parent_id": "vs:@5f369cc10ca9846e86a13e95:@CVS:@Common"
      }
    ],
    "lbMode": "round-robin"
  }
}
```

```
}  
  
}
```

Sample Response

```
{  
  
  "response": "Action triggered successfully.",  
  
  "message": "Action triggered for the following 1 object(s) : Ip:@5f369cc10ca9846e86a13e95:@ms_pool_1:@Common",  
  
  "appStatusCode": null,  
  
  "tags": null,  
  
  "headers": null  
  
}
```

Action - Set Connection Limit

This API initiates action Set connection limit on one or more ADC objects for which the action applies to. Set connection limit action is supported on the following object types:

- F5 - LTM servers
- [Before you begin](#)
- [Request Structure](#)
- [Payload](#)
- [Response Structure](#)
- [Status Codes](#)
- [Sample Request/Response](#)

Before you begin

Before attempting to initiate a set connection limit action with this API, users must ensure the ACF permission “ADC > ControlCenter” is available. This can be checked under Accounts > Role > Authorized Functions.

Request Structure

URL: */adc-device-object-action-connectionlimit*

Type: PUT

Param Type	Name	Description	Field Type	Constraints
Header	sessionId	Session ID received after login.	String	Required if username and password are not provided.
Header	username	AppViewX login username.	String	Required if sessionId is not provided.
Header	password	AppViewX login password.	String	Required if sessionId is not provided.
Header	Content-Type	Specifies the nature of the data in the payload.	String	Value of the param should be 'application/json'.
Query	gwkey	Tenant Key. Needed only in case of multi tenant installations.	String	
Query	gwsouce	Source from which the request is triggered (Eg: web, external).	String	
Body	payload	Contains all the params to be sent in the request body for the put request.	Key value pair Payload	

Payload

Name	Mandatory	Description	Field Type	Constraints
objectIds	Yes	Resource ID of the objects. Use the search API to search/get the resource ID.	String[]	-
connectionLimit	Yes	Connection limit to set.	String	Allows only numerical values. For example, 4.

Response Structure

On 202 Accepted, the action will be initiated and string of type application/json will be returned with the following body params

Name	Description	Field Type
response	Success message or failure description in case of error.	String
message	Success message along with the objectIds or failure description in case of error.	String
appStatusCode	Application specific status code for the response. Will be non-null for failure response.	String
tags	More info in case of failure response.	Key value pair

Status Codes

HTTP Status Code	appStatusCode	Message	Possible remediation
202 Accepted	-	Action triggered for the following <n> object(s) : <resourceIds>	-

HTTP Status Code	appStatusCode	Message	Possible remediation
400 Bad Request	ADC_CC_05011	Invalid input. Please provide 'connectionLimit' to perform action!	Check and ensure if a non-null/non-empty value is given in the payload field - "connectionLimit".
400 Bad Request	ADC_OBJ_ACTION_003	No object(s) not found to perform action	<ul style="list-style-type: none"> • Check and ensure if a non-null/non-empty value is given in the payload field - 'objectIds'. • Check if the requested object is available and not deleted.
400 Bad Request	ADC_OBJ_ACTION_004	Action is invalid for the given objects.	Check for supported objects for the action and change the request objectId
403 Forbidden	ADC_DASH_0029	No given object(s) have Write permission.	Check and ensure if the requested object has Read Write permission
403 Forbidden	ADC_INV_1077	Action cannot be performed on unmanaged device object(s)	-

Sample Request/Response

- [Use Case](#)
- [Sample Request](#)
- [Sample Response](#)

Use Case

Trigger set connection limit action on object with resource id -
In: @5f369cba0ca9846e86a13e82:@1.1.1.1:@Common

Sample Request

```
{  
  
  "payload": {  
  
    "objectIds": [  
  
      "In:@5f369cba0ca9846e86a13e82:@1.1.1.1:@Common"  
  
    ],  
  
    "connectionLimit": "4"  
  
  }  
  
}
```

Sample Response

```
{  
  
  "response": "Action triggered successfully.",  
  
  "message": "Action triggered for the following 1 object(s) : In:@5f369cba0ca9846e86a13e82:@1.1.1.1:@Common",  
  
  "appStatusCode": null,  
  
  "tags": null,  
  
  "headers": null  
  
}
```

Action - Set Ratio

This API initiates action Set ratio on one or more ADC objects for which the action applies to. Set ratio action is supported on the following object types:

- F5 – GTM pool, GTM pool member, LTM pool member
- AVI - GSLB Pool Member, Server
- [Before you begin](#)
- [Request Structure](#)
- [Payload](#)
- [Response Structure](#)
- [Status Codes](#)
- [Sample Request/Response](#)

Before you begin

Before attempting to initiate set ratio action with this API, users must ensure the ACF permission “ADC > ControlCenter > Actions > Ratio” is available. This can be checked under Accounts > Role > Authorized Functions.

Request Structure

URL: */adc-device-object-action-ratio*

Type: PUT

Param Type	Name	Description	Field Type	Constraints
Header	sessionId	Session ID received after login.	String	Required if username and password are not provided.
Header	username	AppViewX login username.	String	Required if sessionId is not provided.
Header	password	AppViewX login password.	String	Required if sessionId is not provided.

Param Type	Name	Description	Field Type	Constraints
Header	Content-Type	Specifies the nature of the data in the payload.	String	Value of the param should be 'application/json'.
Query	gwkey	Tenant Key. Needed only in case of multi tenant installations.	String	
Query	gwsouce	Source from which the request is triggered (Eg: web, external).	String	
Body	payload	Contains all the params to be sent in the request body for the put request.	Key value pair Payload	

Payload

Name	Mandatory	Description	Field Type	Constraints
objects	Yes	Object information containing resource ID and parent resource ID.	Key value pair[] Object details	-
ratio	Yes	Ratio to set.	String	Allows only numerical values.

Response Structure

On 202 Accepted, the action will be initiated and string of type application/json will be returned with the following body params

Name	Description	Field Type
response	Success message or failure description in case of error.	String
message	Success message along with the objectIds or failure description in case of error.	String

Name	Description	Field Type
appStatusCode	Application specific status code for the response. Will be non-null for failure response.	String
tags	More info in case of failure response.	Key value pair

Status Codes

HTTP Status Code	appStatusCode	Message	Possible remediation
202 Accepted	-	Action triggered for the following <n> object(s) : <resourceIds>	-
400 Bad Request	ADC_CC_05012	Invalid input. Please provide 'ratio' to perform action!	Check and ensure if a non-null/non-empty value is given in payload field - 'ratio'.
400 Bad Request	ADC_OBJ_ACTION_001	Object id not found.	Check and ensure if a non-null/non-empty value is given in payload field - 'objects._id'
400 Bad Request	ADC_OBJ_ACTION_002	parent object id not found.	Check and ensure if a non-null/non-empty value is given in payload field - 'objects.parent_id'
400 Bad Request	ADC_OBJ_ACTION_003	No object(s) not found to perform action.	Check and ensure if a non-null/non-empty value is given in payload field - 'objects'.
400 Bad Request	ADC_OBJ_ACTION_004	Action is invalid for the given objects.	Check for supported objects for the action and change the request objectId.
403 Forbidden	ADC_DASH_0029	No given object(s) have Write permission.	Check and ensure if the requested object has Read Write permission.
403 Forbidden	ADC_INV_1077	Action cannot be performed on	-

HTTP Status Code	appStatusCode	Message	Possible remediation
		unmanaged device object(s)	

Sample Request/Response

- [Use Case](#)
- [Sample Request](#)
- [Sample Response](#)

Use Case

Set a ratio of 1 on object with resource id -

lpm:@5f369cc10ca9846e86a13e95:@ms_pool_1:@Common::ms_serv:443:@Common with parent object - lp:@5f369cc10ca9846e86a13e95:@ms_pool_1:@Common

Sample Request

```
{
  "payload": {
    "objects": [
      {
        "_id": "lpm:@5f369cc10ca9846e86a13e95:@ms_pool_1:@Common::ms_serv:443:@Common",
        "parent_id": "lp:@5f369cc10ca9846e86a13e95:@ms_pool_1:@Common"
      }
    ]
  }
}
```

```
"ratio": "1"  
  
}  
  
}
```

Sample Response

```
{  
  
  "response": "Action triggered successfully.",  
  
  "message": "Action triggered for the following 1 object(s) : lpm:@5f369cc10ca9846e86a13e95:@ms_pool_1:@Common::ms_serv:443:@Common",  
  
  "appStatusCode": null,  
  
  "tags": null,  
  
  "headers": null  
  
}
```

Action - ARP Enable/Disable

This API initiates action ARP enable/disable on one or more ADC objects for which the action applies to. Set ARP action is supported on the following object types:

- **F5** - Virtual address
- [Before you begin](#)
- [Request Structure](#)
- [Payload](#)
- [Response Structure](#)
- [Status Codes](#)
- [Sample Request/Response](#)

Before you begin

Before attempting to initiate a set ARP action with this API, users must ensure the ACF permission **ADC > Control Center > Actions > ARP** is available. This can be checked under **Accounts > Role > Authorized Functions**.

Request Structure

URL: /adc-device-object-action-arp

Type: PUT

Param Type	Name	Description	Field Type	Constraints
Header	sessionId	Session ID received after login.	String	Required if username and password are not provided.
Header	username	AppViewX login username.	String	Required if sessionId is not provided.
Header	password	AppViewX login password.	String	Required if sessionId is not provided.
Header	Content-Type	Specifies the nature of the data in the payload.	String	The value of the param should be 'application/json' .
Query	gwkey	Tenant Key. Needed only in case of multi-tenant installations.	String	
Query	gwsouce	Source from which the request is triggered (Eg: web, external).	String	
Body	payload	Contains all the params to be sent in the request body for the put request.	Key value pair Payload	

Payload

Name	Mandatory	Description	Field Type	Constraints
objectIds	Yes	Resource ID of the objects. Note: Use the search API to search/get the resource ID.	String[]	-
arp	Yes	Action. Possible values are 'ENABLE, DISABLE' .	String	-

Response Structure

On 202 Accepted, the action will be initiated and string of type application/json will be returned with the following body params

Name	Description	Field Type
response	Success message or failure description in case of error	String
message	Success message along with the objectIds or failure description in case of error	String
appStatusCode	Application-specific status code for the response. Will be non-null for failure response.	String
tags	More info in case of failure response	Key value pair

Status Codes

HTTP Status Code	appStatusCode	Message	Possible remediation
202 Accepted	-	Action triggered for the following <n> object(s) : <resourceIds>	-

HTTP Status Code	appStatusCode	Message	Possible remediation
400 Bad Request	ADC_CC_05010	Invalid input. Please provide 'arp' to perform action!	Check and ensure if a non-null/non-empty value is given in the payload field - 'arp'.
400 Bad Request	ADC_OBJ_ACTION_003	No object(s) not found to perform action.	<ul style="list-style-type: none"> • Check and ensure if a non-null/non-empty value is given in the payload field - 'objectIds'. • Check if the requested object is available and not deleted.
400 Bad Request	ADC_OBJ_ACTION_004	Action is invalid for the given objects.	Check for supported objects for the action and change the request objectId.
403 Forbidden	ADC_DASH_0029	No given object(s) have Write permission.	Check and ensure if the requested object has Read-Write permission.
403 Forbidden	ADC_INV_1077	Action cannot be performed on unmanaged device object(s)	-

Sample Request/Response

- [Use Case](#)
- [Sample Request](#)
- [Sample Response](#)

Use Case

Trigger ARP disable action on objects with resource id -
 va:@5f4393db80d9c82e890183ef:@5.36.8.91:@Common

Sample Request

```
{  
  
  "payload": {  
  
    "objectIds": [  
  
      "va:@5f4393db80d9c82e890183ef:@5.36.8.91:@Common"  
  
    ],  
  
    "arp": "DISABLED"  
  
  }  
  
}
```

Sample Response

```
{  
  
  "response": "Action triggered successfully.",  
  
  "message": "Action triggered for the following 1 object(s) : va:@5f4393db80d9c82e890183ef:@5.36.8.91:@Common",  
  
  "appStatusCode": null,  
  
  "tags": null,  
  
  "headers": null  
  
}
```

Action - Set CNAME

This API initiates action Set CNAME on one or more ADC objects for which the action applies to. Set CNAME action is supported on the following object types:

- Akamai - Property
- [Before you begin](#)
- [Request Structure](#)
- [Payload](#)
- [Response Structure](#)
- [Status Codes](#)
- [Sample Request/Response](#)

Before you begin

Before attempting to initiate a set CNAME action with this API, users must ensure the ACF permission “ADC > ControlCenter > Actions > CNAME” is available. This can be checked under Accounts > Role > Authorized Functions.

Request Structure

URL: */adc-device-object-action-cname*

Type: PUT

Param Type	Name	Description	Field Type	Constraints
Header	sessionId	Session ID received after login.	String	Required if username and password are not provided.
Header	username	AppViewX login username.	String	Required if sessionId is not provided.
Header	password	AppViewX login password	String	Required if sessionId is not provided.
Header	Content-Type	Specifies the nature of the data in the payload.	String	Value of the param should be 'application/json'.

Param Type	Name	Description	Field Type	Constraints
Query	gwkey	Tenant Key. Needed only in case of multi tenant installations.	String	
Query	gwsouce	Source from which the request is triggered (Eg: web, external).	String	
Body	payload	Contains all the params to be sent in the request body for the put request.	Key value pair Payload	

Payload

Name	Mandatory	Description	Field Type	Constraints
objectIds	Yes	Resource ID of the objects. Use the search API to search/get the resource ID.	String[]	-
cname	Yes	CNAME to set.	String	-

Response Structure

On 202 Accepted, the action will be initiated and string of type application/json will be returned with the following body params

Name	Description	Field Type
response	Success message or failure description in case of error.	String
message	Success message along with the objectIds or failure description in case of error.	String
appStatusCode	Application specific status code for the response. Will be non-null for failure response.	String
tags	More info in case of failure response.	Key value pair

Status Codes

HTTP Status Code	appStatusCode	Message	Possible remediation
202 Accepted	-	Action triggered for the following <n> object(s) : <resourceIds>	-
400 Bad Request	ADC_CC_05013	Invalid input. Please provide 'cname' to perform action!	Check and ensure. if a non-null/non-empty value is given in payload field - 'weight'.
400 Bad Request	ADC_OBJ_ACTION_003	No object(s) not found to perform action.	<ul style="list-style-type: none"> • Check and ensure if a non-null/non-empty value is given in payload field - 'objectIds' • Check if the requested object is available and not deleted.
400 Bad Request	ADC_OBJ_ACTION_004	Action is invalid for the given objects.	Check for supported objects for the action and change the request objectId
403 Forbidden	ADC_DASH_0029	No given object(s) have Write permission.	Check and ensure if the requested object has Read Write permission.
403 Forbidden	ADC_INV_1077	Action cannot be performed on unmanaged device object(s)	-

Sample Request/Response

- [Use Case](#)
- [Sample Request](#)
- [Sample Response](#)

Use Case

Set cname value 'www.test.com' on objects with resource id -
akagp:@5c59407cdd342b6c9431f609:@support.avxlab.net.akadns.net

Sample Request

```
{  
  
  "payload": {  
  
    "objectIds": [  
  
      "akagp:@5c59407cdd342b6c9431f609:@support.avxlab.net.akadns.net"  
  
    ],  
  
    "cname": "www.test.com"  
  
  }  
  
}
```

Sample Response

```
{  
  
  "response": "Action triggered successfully.",  
  
  "message": "Action triggered for the following 1 object(s) : akagp:@5c59407cdd342b6c9431f609:@support.avxlab.net.akadns.net",  
  
  "appStatusCode": null,  
  
  "tags": null,  
  
  "headers": null
```

}

Get Transaction Status

This API fetches the status of the actions for objects involved in a transaction. This support is available for all object-level actions like Enable, Disable, etc. Transaction ID received from the response of these APIs can be sent as input to get the status.

- [Request Structure](#)
- [Sample Request](#)
- [Sample Response](#)

Request Structure

URL: / adc-get-transaction-status

Type: POST

Param Type	Name	Field Type	Description	Constraints
Header	Sessionid	String	Session ID received after login.	Required if username and password are not provided.
Header	username	String	AppViewX login username.	Required if the session ID is not provided.
Header	password	String	AppViewX login password.	Required if the session ID is not provided.
Header	Content-Type	String	Specifies the nature of the data in the payload.	The value of the param should be 'application/json'.
Query	gwkey	String	Tenant Key. Needed only in the case of multi-tenant installations.	
Query	gwsource	String	Source from which the request is triggered (Eg: web, external)	
Body	payload	Payload	Contains all the params to be sent in the request body for the post request.	

- Payload
- Response Structure
- Status Codes

Payload

Name	Mandatory	Description	Field Type	Constraints
transactionId	Yes	Transaction ID of action triggered. It can be found in the response of the action APIs under the tags field in the name 'transactionId'.	String	
Status	No	Transaction Status to be searched.	String	
Objects	No	Transaction status of objects to be searched.	Array	
deviceNames	No	Transaction status of the device to be searched.	Array	

Response Structure

200 OK, returns string of type application/json with the following body params.

Name	Description	Field Type
response	Contains the requested pool objects and pool members.	Response
message	Failure description in case of error	String
appStatusCode	Application-specific status code for the response. It will be non-null for failure response.	String
tags	More info in case of a failed response.	Key-value pair

Status Codes

HTTP Status Code	appStatusCode	Message	Possible remediation
200 Ok	-	Refer to sample response	

HTTP Status Code	appStatusCode	Message	Possible remediation
404 Not Found	AVX_GW_009	Resource not found, reason - Invalid apiid	
400	avx-common-028	Invalid/ Incorrect payload	

Sample Request

```
{
  "payload": {
    "transactionId": "external-17631f9h1",
    "objects": [
      {
        "objectType": "ItmPoolMember",
        "deviceName": "gs-f5-pe55.apvlab.com",
        "objectName": "livepool",
        "partition": "Common",
        "recordType": "Common",
        "vendor": "F5"
      },
      {
        "objectType": "ItmPoolMember",
        "deviceName": "192.168.31.188",
        "objectName": "livepool",
        "partition": "Common",
        "recordType": "Common",
        "vendor": "F5"
      }
    ]
  }
}
```

• Use Case

Use Case

To fetch the action status of the object/device for the transaction.

Sample Response

```
{  
  
  "response": {  
  
    "transactionId": "external-17631fj9h1",  
  
    "action": "Enable",  
  
    "user": "admin",  
  
    "comments": "action",  
  
    "deviceObjects": [{  
  
      "code": "go",  
  
      "partition": "Common",  
  
      "displayName": "livpool/a/gs-f5-pe55.apvlab.com/F5",  
  
      "vendor": "F5",  
  
      "logMessage": "Action Disable executed successfully on object livpool/a/gs-f5-pe55.apvlab.com/F5 by the user admin Reason: perform disable. The  
action is executed on a Standby device as an Active peer is not identified in AppViewX",  
  
      "objectName": "livpool",  
  
      "objectId": "gp:@5fa5305656aaf54f67a001f7:@livpool:@Common:@a",  
  
      "status": "success"  
  
    }], {  
  
      "code": "go",  
  
      "partition": "Common",  
  
    }  
  
  }  
  
}
```

```

    "displayName": "livepool/a/192.168.31.188/F5",

    "vendor": "F5",

    "logMessage": "Action Disable executed successfully on object livepool/a/192.168.31.188/F5 by the user admin Reason : perform disable.The action is
executed on a Standby device as an Active peer is not identified in AppViewX",

    "objectName": "livepool",

    "objectId":

    "gp:@5fa5305656aaf54f67a002ca:@livpool:@Common:@a",

    "status": "success"

  }],

  "timeStamp": 1606722095762

}

}

```

Search - LTM and GTM Pool

This API searches for LTM and GTM pools and associated pool members. LTM and GTM Pool Search action is supported on the following object types:

- F5 - LTM pool
- F5 - GTM pool
- [Search - LTM and GTM Pool Before You Begin](#)
- [Request Structure](#)
- [Payload](#)
- [Response Structure](#)
- [Response](#)

- [Object](#)
- [Status Codes](#)
- [Sample Request/Response](#)

Search - LTM and GTM Pool Before You Begin

Before attempting to search for the pool(s) and associated pool members with this API, users must ensure any of the ACF permission from ADC > Control Center, ADC > Dashboard > Application Widget, or ADC > Orphan objects is available. This can be checked under Accounts > Role > Authorized Functions.

Request Structure

URL: adc-controlcenter-pool-object-search

Method: Post

Param Type	Name	Field Type	Description	Constraints
Header	Sessionid	String	Session ID received after login.	Required if username and password are not provided.
Header	username	String	AppViewX login username.	Required if the session ID is not provided.
Header	password	String	AppViewX login password.	Required if the session ID is not provided.
Header	Content-Type	String	Specifies the nature of the data in the payload.	The value of the param should be 'application/json'.
Query	gwkey	String	Tenant Key. Needed only in the case of multi-tenant installations.	
Query	gwsource	String	Source from which the request is triggered (Eg: web, external)	
Body	payload	Payload	Contains all the params to be sent in the request body for the post request.	

Payload

Name	Mandatory	Description	Field Type	Constraints
deviceName	Yes	Device name of the pool to be searched for.	String	
objectName	Yes	Object name to be searched.	String	
objectType	Yes	GTM pool and LTM pool have to be searched.	String	Value of param should be TM pool or WideIP Pool or both.
partition	No	Partition in which the pool lies.	String	
recordType	No	Pool record type.	String	
orphan	No	Flag to get orphan objects.	Boolean	

Response Structure

200 OK, returns string of type application/json with the following body params.

Name	Description	Field Type
response	Contains the requested pool objects and pool members.	Response
message	Failure description in case of error	String
appStatusCode	Application-specific status code for the response. It will be non-null for failure response.	String
tags	More info in case of a failed response.	Key value pair

Response

Name	Description	Field Type
result	Contains result object	Object

Object

Name	Description	Field Type
Object	List of objects from the database that match the input query.	Object[]

Status Codes

HTTP Status Code	appStatusCode	Message	Possible remediation
200 Ok	-	Refer to sample response	
404 Not Found	AVX_GW_009	Resource not found, reason - Invalid apiid	
400	avx-common-028	Invalid/ Incorrect payload	

Sample Request/Response

- [Use Case](#)

Use Case

Search pool object with mandatory and optional parameters.

- [Sample Request](#)
- [Sample Response](#)

Sample Request

```
{
  "payload": {
    "objects": [
      {
        "objectType": "Itm Pool",
        "deviceName": "192.168.42.150",
        "objectName": "pool_demo36_80",

```

```

    "orphan": true
  }
]
}
}

```

Sample Response

```

{
  "response": {
    "result": {
      "objects": [
        {
          "id": "lp:@60518caecc48a15dda15a673:@pool_demo36_80:@Common",
          "name": "pool_demo36_80",
          "deviceName": "192.168.42.150",
          "objectType": "Itm Pool",
          "code": "lp",
          "displayName": "pool_demo36_80/192.168.42.150/F5",
          "orphan": true,
          "recordType": null,
          "status": "ENABLED",
          "statusCode": "UNKNOWN ENABLED",
          "childs": [
            {
              "id": "lpm:@6051da15a73:@pool_demo36_80:@Common::192.168.40.31:80:@Common",
              "name": "192.168.40.31:80",
              "code": "lpm",
              "displayName": "192.168.40.31:80/192.168.40.31:80/pool_demo36_80/192.168.42.150/F5",
              "partition": "Common",
              "ip": "192.168.40.31",
              "port": "80",
              "status": "DISABLED",
              "statusCode": "UNKNOWN DISABLED",
              "memberName": "/Common/192.168.40.31",
              "parentName": "pool_demo36_80",
              "parentPartition": "Common"
            }
          ]
        }
      ]
    }
  }
}

```

```
    }  
  ]  
}  
},  
"message": null,  
"appStatusCode": null,  
"tags": null,  
"headers": null  
}
```

Chapter 2: Device

- [Overview: Device](#)
- [Generate Device Backup](#)
- [Get Backup Details for a Device](#)
- [Add Device](#)
- [Delete Device](#)
- [Search Device](#)
- [Sync Configuration](#)
- [Manage Device](#)
- [Unmanage a Device](#)

Overview: Device

The Devices can be added into AppViewX and monitored. By using the APIs, the devices can be added, searched, and/or managed within AppViewX.

Generate Device Backup

This API triggers backup for a device. The generated backups are stored in the device inventory under the mentioned backup group name. If a backup group doesn't exist, a new backup group will be created.

- [Before you begin](#)
- [Request Structure](#)
- [Response Structure](#)
- [Payload](#)
- [Status Codes](#)
- [Sample Request/Response](#)

Before you begin

Before attempting to initiate device backup with this API, users must ensure any one of the ACF permission **ADC > Backup & Restore > Backup now** is available. This can be checked under **Accounts > Role > Authorized Functions**.

Request Structure

URL: /adc-device-backup

Type: POST

Param Type	Name	Description	Field Type	Constraints
Header	sessionId	Session ID received after login	String	Required if username and password are not provided
Header	username	AppViewX login username	String	Required if sessionId is not provided
Header	password	AppViewX login password	String	Required if sessionId is not provided
Header	Content-Type	Specifies the nature of the data in the payload.	String	Value of the param should be 'application/json'
Query	gwkey	Tenant Key. Needed only in case of multi-tenant installations.	String	
Query	gwsource	Source from which the request is triggered (Eg: web, external).	String	
Body	payload	Contains all the params to be sent in the request body for the post request.	payload	

Response Structure

On 202 Accepted, device backup will be initiated on request device under given backup group name and string of type application/json will be returned with the following body params:

Name	Description	Field Type
response	Success message with device name or failure description in case of error.	String
message	Success message or failure description in case of error.	String
appStatusCode	Application-specific status code for the response. Will be non-null for failure response.	String

Name	Description	Field Type
tags	More info in case of failure response.	

Payload

Name	Mandatory	Description	Field Type	Constraints
deviceName	Yes	Name of the device added in inventory.	String	It can contain only alphanumeric characters, '-', '_', ':', '*', ' ', '!.
backupName	Yes	<p>The name of the backup group. A backup group will be created in this name if it isn't available. If the backup group is already existing in the system then backup will be triggered only if one of the following conditions are met.</p> <ul style="list-style-type: none"> The existing backup group is of device type. In this case, the device will be added to the backup group if it isn't available. The existing backup group is of device group type and any of the configured device groups contain the requested device. 	String	It can contain only Alphanumeric characters, '-', '_', ':', '*', ' ', and space.
passphrase	No	PassPhrase key to encrypt the backup.	String	Passphrase is supported only for vendor F5.

Status Codes

HTTP Status Code	appStatusCode	Message	Possible remediation
202 Accepted	-	Device backup triggered successfully.	-
400 Bad Request	ADC_INV_2006	Invalid input.	Check if a non-null/non-empty value is given under field 'payload'.
400 Bad Request	ADC_INV_1117	Invalid backup name. Backup name accepts only '_', '-', '.' as special characters and should not start or end with special characters.	Check if the value given under field 'backupName' is valid. Backup name accepts only '_', '-', '.' as special characters and should not start or end with special characters.
400 Bad Request	ADC_INV_1116	Backup name cannot be null or empty.	Check if a non-null/non-empty value is given under the payload field - 'backupName'.
400 Bad Request	ADC_INV_1092	Device Name cannot be null or empty.	Check if a non-null/non-empty value is given under payload field - 'deviceName'.
400 Bad Request	ERR_OBJECT_023	Respective vendor's device is not supported. Action cannot be performed.	Request only devices of vendor - AVI,F5.
400 Bad Request	ADC_INV_1115	Mismatch in backup type, cannot add device to existing group as it already has a devicegroup configured.	<ul style="list-style-type: none"> • Change the request backupName for which device is configured and not device group. • Give a new backupName to be created and the requested device will be added in that backup group.
403 Forbidden	ADC_INV_1098	Cannot access resource, permission not available.	Check if Read/Read Write permission is available for the requested device.
403 Forbidden	ADC_INV_1077	Action cannot be performed on unmanaged device object(s).	Check if the requested device is in unmanaged state. If required, the

HTTP Status Code	appStatusCode	Message	Possible remediation
			device should be moved to managed state for performing backup.
404 Not Found	ADC_INV_1076	Device not available for the given details.	Check if the requested device is available in inventory.

Sample Request/Response

- [Use Case](#)
- [Sample Request](#)
- [Sample Response](#)

Use Case

Get the list of backups available for the device testdevice.

Sample Request

```
{
  "payload": {
    "backupName": "test",
    "deviceName": "testDevice"
  }
}
```

Sample Response

```
{  
  
  "response": "Backup triggered for device testDevice",  
  
  "message": "Device backup triggered successfully.",  
  
  "appStatusCode": null,  
  
  "tags": null,  
  
  "headers": null  
  
}
```

Get Backup Details for a Device

This API retrieves a list of device backups available in Device Inventory against any particular ADC device.

- [Before you begin](#)
- [Request Structure](#)
- [Response Structure](#)
- [Response](#)
- [Backup File Details](#)
- [Backup File Metadata](#)
- [Status Codes](#)
- [Sample Request/Response](#)

Before you begin

Before attempting to get back up details with this API, users must ensure any one of the ACF permission **ADC > Backup & Restore > Object compare** is available. This can be checked under **Accounts > Role > Authorized Functions**.

Request Structure

URL: /adc-device-archives

Type: GET

Param Type	Name	Description	Field Type	Constraints
Header	sessionId	Session ID received after login.	String	Required if username and password are not provided.
Header	username	AppViewX login username.	String	Required if sessionId is not provided.
Header	password	AppViewX login password.	String	Required if sessionId is not provided.
Query	gwkey	Tenant Key. Needed only in case of multi .tenant installations	String	-
Query	gwsource	Source from which the request is triggered (Eg: web, external).	String	-
Query	deviceName	Name of the device.	String	Mandatory. It can contain only alphanumeric characters, '-', '_', '.', '*', ' ', '!.

Response Structure

On 202 Accepted, device backup will be initiated on request device under given backup group name and string of type application/json will be returned with the following body params

Name	Description	Field Type
response	Contains the response params for the get backup details request.	response
message	Success message or failure description in case of error.	String
appStatusCode	Application-specific status code for the response. Will be non-null for failure response.	String
tags	More info in case of failure response.	

Response

Name	Description	Field Type
<deviceName>	Device name given in request will be the key and the value is an object that contains the backup details.	Key value pair. backupFileDetail

Backup File Details

Name	Description	Field Type
filename	Device name given in request will be the key and the value is an object that contains the backup details.	String
metadata	Metadata field denoting the backup details.	Key value pair. BackupFileMetadata
chunkSize	Size of the backup.	Integer
length	Length of the backup chunk stored in the database.	Integer
md5	MD5 sum of the device backup.	String
_id	Resource id denoting the backup file metadata stored in the database.	String

Backup File Metadata

Name	Description	Field Type
timeStamp	Time Stamp denoting the time on which the backup file is added to the database.	String
groupName	Group settings name in which the backup resides.	String[]
isEncrypted	Boolean value denoting whether the device backup is encrypted or not.	boolean
deviceId	Resource ID of the device for which backup is retrieved.	String

Status Codes

HTTP Status Code	appStatusCode	Message	Possible remediation
200 OK	-	Archive details retrieved successfully.	-
400 Bad Request	ADC_INV_1084	Device name is mandatory.	Check and ensure if a non-null/non-empty value is given in query param field - 'deviceName'.
404 Not Found	ADC_INV_1076	Device not available for the given details.	Check if the requested device is added in the inventory.

Sample Request/Response

- [Use Case](#)
- [Request URL](#)
- [Sample Request](#)
- [Sample Response](#)

Use Case

Get the list of archives for the device with name testDevice.

Request URL

`https://192.168.98.27:31443/avxapi/adc-device-archives?deviceName=testDevice&gwkey=f000ca01&gwsources=external`

Sample Request

NA

Sample Response

```
{  
  
  "response": {  
  
    "testDevice": [  
  
      {  
  
        "name": null,  
  
        "chunkSize": 261120,  
  
        "length": 1192434,  
  
        "md5": "f2663fdf65d3db4644bd074fd6306de1",  
  
        "filename": "testDevice_1597903384000.tar.gz",  
  
        "metadata": {  
  
          "timeStamp": "1597903439000",  
  
          "mode": "daily",  
  
          "groupName": [  
  
            "test"  
  
          ],  
  
          "isEncrypted": "false",  
  
          "deviceId": "5f36bed67620c40e97e30348"  
  
        },  
  
      },  
  
    ],  
  
  },  
  
}
```

```
    "_id": "5f3e124f25ac8a2582b08e57"

  }

]

},

"message": "Archive details retrieved successfully.",

"appStatusCode": null,

"tags": null,

"headers": null

}
```

Add Device

The API adds an ADC device to the Device Inventory.

- [Before you begin](#)
- [Request Structure](#)
- [F5](#)
- [AVI](#)
- [Nginx Plus](#)
- [Status Codes](#)

Before you begin

Before attempting to add a device with this API, users must ensure ACF permission **ADC > Device group > Add / Modify** is available. This can be checked under **Accounts > Role > Authorized Functions**.

Request Structure

URL: /adc-device-add

Type: POST

Param Type	Name	Description	Field Type	Constraints
Header	sessionId	Session ID received after login.	String	Required if username and password are not provided.
Header	username	AppViewX login username.	String	Required if sessionId is not provided.
Header	password	AppViewX login password.	String	Required if sessionId is not provided.
Header	Content-Type	Specifies the nature of the data in the payload.	String	Value of the param should be 'application/json'.
Query	gwkey	Tenant Key. Needed only in case of multi-tenant installations.	String	
Query	gwsource	Source from which the request is triggered (Eg: web, external).	String	
Body	payload	Contains all the params to be sent in the request body for the post request.	Any one of the following: <ul style="list-style-type: none"> • F5 Payload • AVI Payload • NginxPlus Payload 	-

F5

- [F5 Payload](#)
- [Use Case for Sample Request/Response](#)

- [Sample Request](#)
- [Sample Response](#)

F5 Payload

Name	Mandatory	Description	Field Type	Constraints
name	Yes	Name of the device.	String	<ul style="list-style-type: none"> • Accepted special characters: '-', '_', '.', '*', ' ', '!' and space only. • Length 2 - 64 characters.
vendor	Yes	Vendor of the device - F5.	String	-
communicationAddressType	Yes	Communication type to the device.	String	Possible Values: IP,FQDN.
ip	Yes	IP of the device.	String	Required only if communicationAddressType is IP.
fqdn	Yes	FQDN of the device.	String	Required only if communicationAddressType is FQDN.
credentialType	Yes	Type of credential to be associated for the device.	String	Possible Values: 'Manual Entry','Credential List - AppViewX','Credential List - CyberArk'.
userName	Yes	User name of the device.	String	Required only if credential Type is Manual entry. It will not accept ',",<,>.
password	Yes	Encoded value of the password to authenticate with the device.	String	Required only if credential Type is Manual entry.

Name	Mandatory	Description	Field Type	Constraints
credentialName	Yes	Name of the credential to be associated with the device.	String	<ul style="list-style-type: none"> • Required only if credential type is 'Credential List - AppViewX' or 'Credential List - CyberArk'. • Credential of the requested name should be added in AppViewX already. • Accepted special characters: '-', '_', '.', '*', ' ', '!' and space only. • Length 2 - 64 characters.
module	Yes	Modules with which the device is to be added.	String[]	Possible Values: LTM, BIG-IP DNS, vCMP Host.
sshPort	No	Device communication port.	String	Default value: 22
certSync	No	Certificate sync mode.	String	Possible values: Managed, Monitored, Ignored Default Value: Ignored.
isAppViewXSyncRequired	No	Boolean value to denote whether AppViewX group is required. Only for applicable vendors.	Boolean	Default value: False
isAutoDetectSecondary	No	Boolean value to denote whether secondary devices should be automatically	Boolean	Default value: False

Name	Mandatory	Description	Field Type	Constraints
		discovered and added to AppViewX.		
tokenBasedAuthentication	No	Token Based authentication. The possible values are True/False.	Boolean	-
dataCenter	No	Data center with which the device is to be added.	String	<ul style="list-style-type: none"> Accepted special characters: '-', '_', '!', '*', ' ', '!' and space only. Length 2 - 64 characters.

Use Case for Sample Request/Response

Add an F5 device of name testF5Device, with IP address 192.168.xxx.xx with both LTM and BIG-IP DNS modules with username and password.

Sample Request

```
{
  "payload": {
    "name": "testF5Device",
    "communicationAddressType": "ip",
    "ip": "192.168.112.93",
    "vendor": "F5",
    "module": [
      "LTM",
```

```
"BIG-IP DNS"

],

"credentialType": "Manual Entry",

"userName": "admin",

"password": "YXBwdGFnQDEyMw=="

}

}
```

Sample Response

```
{

"response": "Device is added to the inventory.",

"message": "Device has been successfully added and configuration parse is triggered.",

"appStatusCode": null,

"tags": null,

"headers": null

}
```

AVI

- [AVI Payload](#)
- [Use Case for Sample Request/Response](#)

- [Sample Request](#)
- [Sample Response](#)

AVI Payload

Name	Mandatory	Description	Field Type	Constraints
name	Yes	Name of the device.	String	<ul style="list-style-type: none"> • Accepted special characters: '-', '_', '.', '*', ' ', '!' and space only. • Length 2 - 64 characters.
vendor	Yes	Vendor of the device - AVI.	String	-
communicationAddressType	Yes	Communication type to the device.	String	Possible Values: IP,FQDN.
ip	Yes	IP of the device.	String	<p>Required only if communicationAddressType is IP.</p> <p>The IP address must be in IPV4 format.</p>
fqdn	Yes	FQDN of the device.	String	.Required only if communicationAddressType is FQDN
credentialType	Yes	Type of credential to be associated for the device.	String	Possible Values: 'Manual Entry','Credential List - AppViewX','Credential List - CyberArk'.
userName	Yes	User name of the device.	String	<p>Required only if credential Type is Manual entry.</p> <p>It will not accept '",<,>.</p>
password	Yes	Encoded value of the password to	String	Required only if credential Type is Manual entry.

Name	Mandatory	Description	Field Type	Constraints
		authenticate with the device.		
credentialName	Yes	Name of the credential to be associated to the device.	String	<ul style="list-style-type: none"> • Required only if credential type is 'Credential List - AppViewX' or 'Credential List - CyberArk'. • Credential of the requested name should be added in AppViewX already. • Accepted special characters: '-', '_', '!', '*', ' ', '!' and space only. • Length 2 - 64 characters.
module	Yes	Modules with which the device is to be added.	String[]	Possible Values; SLB,GSLB.
certSync	No	Certificate sync mode.	String	Possible values: Managed,Monitored,Ignored Default Value: Ignored.
isAutoDetectSecondary	No	Boolean value to denote whether secondary devices should be .automatically discovered and added to AppViewX	String	Default value: False
dataCenter	No	Data center with which the device is to be added.	String	<ul style="list-style-type: none"> • Accepted special characters: '-', '_', '!', '*', ' ', '!' and space only. • Length 2 - 64 characters.

Use Case for Sample Request/Response

Add an AVI device of name testAVIDevice, with IP address 192.168.xx.xx with both SLB and GSLB modules, with username and password.

Sample Request

```
{  
  
  "payload": {  
  
    "name": "testAVIDevice",  
  
    "communicationAddressType": "ip",  
  
    "ip": "192.168.xx.xx",  
  
    "vendor": "AVI",  
  
    "module": [  
  
      "SLB",  
  
      "GSLB"  
  
    ],  
  
    "certSync": "Monitored",  
  
    "credentialType": "Manual Entry",  
  
    "userName": "admin",  
  
    "password": "YXBwdGFnQDEyMw=="  
  
  }  
  
}
```

Sample Response

```
{
  "response": "Device is added to the inventory.",
  "message": "Device has been successfully added and configuration parse is triggered.",
  "appStatusCode": null,
  "tags": null,
  "headers": null
}
```

Nginx Plus

- [NginxPlus Payload](#)
- [Use Case for Sample Request/Response](#)
- [Sample Request](#)
- [Sample Response](#)

NginxPlus Payload

Name	Mandatory	Description	Field Type	Constraints
name	Yes	Name of the device.	String	<ul style="list-style-type: none"> • Accepted special characters: '-', '_', '!', '*', ' ', '!' and space only. • Length 2 - 64 characters.
vendor	Yes	Vendor of the device - NginxPlus.	String	-

Name	Mandatory	Description	Field Type	Constraints
communicationAddressType	Yes	Communication type to the device.	String	Possible Values: IP
ip	Yes	IP of the device.	String	The IP address must be in IPV4 format.
credentialType	Yes	Type of credential to be associated for the device.	String	Possible Values: 'Manual Entry','Credential List - AppViewX','Credential List - CyberArk'.
userName	Yes	User name of the device.	String	Required only if credential Type is Manual entry. It will not accept ',",<,>.
password	Yes	Encoded value of the password to authenticate with the device.	String	Required only if credential Type is Manual entry.
credentialName	Yes	Name of the credential to be associated with the device.	String	<ul style="list-style-type: none"> • Required only if credential type is 'Credential List - AppViewX or 'Credential List - CyberArk'. • Credential of the requested name should be added in AppViewX already. • Accepted special characters: '-', '_', '.', '*', ' ', '!' and space only. • Length 2 - 64 characters.
module	Yes	Modules with which the device is to be added.	String[]	Possible Value: SLB
certSync	No	Certificate sync mode.	String	Possible values: Managed, Monitored, Ignored

Name	Mandatory	Description	Field Type	Constraints
				Default Value: Ignored.
dataCenter	No	Data center with which the device is to be added.	String	<ul style="list-style-type: none"> Accepted special characters: '-', '_', '.', '*', ' ', '!' and space only. Length 2 - 64 characters.

Use Case for Sample Request/Response

Add an NginxPlus device of name testNginxPlusDevice, with IP address 192.168.41.28 with SLB module, with username and password.

Sample Request

```
{
  "payload": {
    "name": "testNginxPlusDevice",
    "communicationAddressType": "IP",
    "ip": "192.168.41.28",
    "vendor": "NginxPlus",
    "module": [
      "SLB"
    ],
    "certSync": "Monitored",
    "credentialType": "Manual Entry",
```

```

"userName": "admin",

"password": "YXBwdGFnQDEyMw=="

}

}

```

Sample Response

```

{

"response": "Device is added to the inventory.",

"message": "Device has been successfully added and configuration parse is triggered.",

"appStatusCode": null,

"tags": null,

"headers": null

}

```

Status Codes

HTTP Status Code	appStatusCode	Message	Possible remediation
202 Accepted	-	Device has been successfully added and configuration parse is triggered	-

HTTP Status Code	appStatusCode	Message	Possible remediation
400 Bad Request	ADC_INV_0004	Validation error	One or more fields are invalid. Reason for validation failure and possible remediation will be available in 'tags' field of response.
409 Conflict	ADC_INV_0001	Device(s) Already Exists	Device already exists in AppViewX. Change the name of the device and ip/fqdn.
409 Conflict	ADC_INV_0006	Device Name Already Exists.	Change the name of the device and retry adding.
409 Conflict	ADC_INV_0007	IP Already Exists	Change the ip of the device and retry adding.
409 Conflict	ADC_INV_0027	FQDN already exists	Change the fqdn field of the device and retry adding.
404 Not Found	ADC_INV_1076	Device not available for the given details.	Check if the requested device is added in the inventory.

Delete Device

This API deletes any device that is available in inventory.

- [Before you begin](#)
- [Request Structure](#)
- [Response Structure](#)
- [Status Codes](#)
- [Sample Request/Response](#)

Before you begin

Before attempting to delete devices with this API, users must ensure the ACF permission **ADC > Inventory > Delete** is available. This can be checked under **Accounts > Role > Authorized Functions**.

Request Structure

URL: /adc-device

Type: DELETE

Param Type	Name	Description	Field Type	Constraints
Header	sessionId	Session ID received after login.	String	Required if username and password are not provided.
Header	username	AppViewX login username.	String	Required if sessionId is not provided.
Header	password	AppViewX login password.	String	Required if sessionId is not provided.
Header	Content-Type	Specifies the nature of the data in the payload.	String	Value of the param should be 'application/json'.
Query	gwkey	Tenant Key. Needed only in case of multi-tenant installations.	String	
Query	gwsource	Source from which the request is triggered (Eg: web, external).	String	
Query	deviceName	Name of the device to be deleted	String	Mandatory. It can contain only alphanumeric characters, '-', '_', '.', '*', ' ', '!.

Response Structure

On 200 OK, valid device(s) from the request will be deleted from the ADC inventory.

Name	Description	Field Type
response	Success message with device name or failure description in case of error.	String
message	Success message or failure description in case of error.	String
appStatusCode	Application-specific status code for the response. Will be non-null for failure response.	String
tags	More info in case of failure response, contains information of deleted and invalid device(s)	

Status Codes

HTTP Status Code	appStatusCode	Message	Possible remediation
200 OK	-	Device(s) deleted successfully.	-
400 Bad Request	ADC_INV_1562	Invalid Device Name. Device name cannot be null or empty.	Device name is not given/empty value is given. Give a valid device name in query param field - 'deviceName'
400 Bad Request	ADC_INV_1561	All the given devices are invalid.	All the given device(s) are invalid. Check if the device is already added in the ADC inventory, Check if the requesting user has RW permission for the device.
404 Not Found	ADC_INV_1559	All the given devices are not found.	Check if the device is already added in the ADC inventory.
403 Forbidden	ADC_INV_1560	All the given devices doesn't have sufficient permission.	Check if the requesting user has RW permission for the device. This can be verified by navigating to Account -> Resource page and checking under Device tab for the user's resource

Sample Request/Response

- [Use Case](#)
- [Request URL](#)
- [Sample Request](#)
- [Sample Response](#)

Use Case

Delete two devices, 192.168.40.150 and test available in the ADC inventory.

Request URL

https://192.168.98.27:31443/avxapi/adc-device?
deviceName=192.168.40.150,test&gwkey=f000ca01&gwsourc=api

Sample Request

NA

Sample Response

```
{  
  
  "response": "The following devices are deleted - [192.168.40.150]",  
  
  "message": "Device(s) deleted succesfully.",  
  
  "appStatusCode": null,  
  
  "tags": {  
  
    "Deleted Device(s)": [  
  
      "192.168.40.150"  
  
    ],  
  
    "Invalid Device(s)": [  
  
      "test"  
  
    ]  
  
  },  
  
  "headers": null  
  
}
```

Search Device

This API searches for ADC devices that are available in the inventory for any user.

- [Before you begin](#)
- [Request Structure](#)
- [Payload](#)
- [Response Structure](#)
- [Response](#)
- [Status Codes](#)
- [Sample Request/Response](#)

Before you begin

Before attempting to search devices with this API, users must have the ACF permission **ADC > Inventory > View**. This can be checked under **Accounts > Role > Authorized Functions**.

Request Structure

URL: /adc-device-search

Type: POST

Param Type	Name	Description	Field Type	Constraints
Header	sessionId	Session IIDd received after login.	String	Required if username and password are not provided.
Header	username	AppViewX login username.	String	Required if sessionId is not provided.
Header	password	AppViewX login password.	String	Required if sessionId is not provided.
Header	Content-Type	Specifies the nature of the data in the payload.	String	Value of the param should be 'application/json'.
Query	gwkey	Tenant Key. Needed only in case of multi tenant installations.	String	

Param Type	Name	Description	Field Type	Constraints
Query	gwsource	Source from which the request is triggered (Eg: web, external).	String	
Body	payload	Contains all the params to be sent in the request body for the post request.	Key value pair. Payload	

Payload

Name	Mandatory	Description	Field Type	Constraints
input	Yes	Key value pair to search devices.	Key value pair	Possible values: Input
filter	No	Filter params to be applied on response such as start,limit and sort.	Key value pair	Possible value: Filter

Response Structure

200 OK, returns string of type application/json with the following body params

Name	Description	Field Type
response	Contains the response params for the get backup details request.	response
message	Success message or failure description in case of error.	String
appStatusCode	Application specific status code for the response. Will be non-null for failure response.	String
tags	More info in case of failure response.	

Response

Name	Description	Field Type
devices	List of devices from database, that matches the input query.	Object[]
totalRecords	Total no of records matching the search query.	Integer
obtainedRecords	Total no of records returned considering the filter query.	Integer
obtainedRecordRange.start	Start index for the range of records returned considering the filter query.	Integer
obtainedRecordRange.end	End index for the range of records returned considering the filter query.	Integer

Status Codes

HTTP Status Code	appStatusCode	Message	Possible remediation
200 OK	-	Matching results found for the given input.	-
200 OK	-	No matching results found.	-
400 Bad Request	ADC_DEVICE_SEARCH_001	Invalid search input.	<ul style="list-style-type: none"> • Check and ensure if non-null/non-empty value is given in field - 'payload'. • Check and ensure if non-null/non-empty value is given under payload field - 'input'.

Sample Request/Response

- [Use Case](#)
- [Sample Request](#)
- [Sample Response](#)

Use Case

Get all devices of vendor AVI and with haActive state as Active.

Sample Request

```
{  
  
  "payload": {  
  
    "input": {  
  
      "vendor": "AVI",  
  
      "haActive": "Active"  
  
    }  
  
  }  
  
}
```

Sample Response

```
{  
  
  "response": {  
  
    "devices": [  
  
      {  
  
        "name": "192.168.40.161",  
  
      }  
  
    ]  
  
  }  
  
}
```

```
"ip": "192.168.40.161",

"fqdn": null,

"deviceType": [

  "SLB",

  "GSLB"

],

"module": [

  "SLB",

  "GSLB"

],

"dataCenter": "CBE",

"vendor": "AVI",

"version": "v12",

"detailedVersion": "12.0 build 56.20.nc",

"subsystem": "LoadBalancer",

"category": "ADC",

"partition": [

  "default",
```

```
"Other",  
  
"partition1 @sted",  
  
"_partition-spl.=@sted",  
  
"API_SB_Test"  
  
],  
  
"keywords": [  
  
"192.168.40.161",  
  
"192.168.40.161",  
  
"SLB",  
  
"GSLB",  
  
"CBE",  
  
"AVI",  
  
"v12",  
  
"12.0 build 56.20.nc",  
  
"Manual Entry",  
  
"Managed",  
  
"Active",  
  
"HE2H81UJ47",  
  
"22",
```

```
"default",

"Other",

"partition1 @sted",

"_partition-spl.=@sted",

"API_SB_Test",

"API"

],

"access": [

{

"accessType": "API",

"userName": "nsroot",

"password": "*****",

"credentialStoreId": null,

"community": null,

"snmpVersion": null,

"key": "xxxxxx",

"secondaryPassword": null,

"secondaryPassKey": null,
```

```
"accessToken": null,  
  
  "url": null  
  
}  
  
],  
  
"enablePassword": null,  
  
"enablePasswordKey": null,  
  
"sameCredential": false,  
  
"credentialType": "Manual Entry",  
  
"credentialName": "",  
  
"description": null,  
  
"status": "Managed",  
  
"objectSummary": [  
  
  {  
  
    "name": null,  
  
    "object": "SLB Virtual Servers",  
  
    "count": 138,  
  
    "_id": null  
  
  },  
  
  {
```

```
"name": null,  
  
"object": "CS Virtual Servers",  
  
"count": 50,  
  
"_id": null  
  
},  
  
{  
  
"name": null,  
  
"object": "GSLB Virtual Servers",  
  
"count": 153,  
  
"_id": null  
  
}  
  
],  
  
"deviceStatusList": [  
  
{  
  
"title": "Device communication",  
  
"message": "Primary Device communication successful",  
  
"status": "Success",  
  
"timeStamp": 1597862177000
```

```
},  
  
{  
  
  "title": "Device provisioned modules check",  
  
  "message": "Selected device type matches with the Provisioned Modules. ",  
  
  "status": "Success",  
  
  "timeStamp": 1597862178000  
  
},  
  
{  
  
  "title": "Downloading configuration file",  
  
  "message": "Downloaded configuration file",  
  
  "status": "Success",  
  
  "timeStamp": 1597862224000  
  
},  
  
{  
  
  "title": "Comparing the changes in configuration file",  
  
  "message": "Configuration files changed.",  
  
  "status": "Success",  
  
  "timeStamp": 1597862228000  
  
},
```

```
{

  "title": "Parsing downloaded SLB configuration file(s)",

  "message": "Objects added to AppViewX - Virtual Server:138, Service Group:97, Service Group Member:97, Service:36, CS VirtualServer:50,
Server:329",

  "status": "Success",

  "timeStamp": 1597862228000

},

{

  "title": "Parsing downloaded GSLB configuration file(s)",

  "message": "Objects added to AppViewX - GSLB Virtual Server153, Service:44, Server:329",

  "status": "Success",

  "timeStamp": 1597862231000

},

{

  "title": "Subscription for syslog notifications from device",

  "message": "Registered with device for syslog subscription",

  "status": "Success",

  "timeStamp": 1597862249000

}
```

```
],  
  
"registrationKey": null,  
  
"serialNumber": "HE2H81UJ47",  
  
"modelName": "1000",  
  
"expiryDate": null,  
  
"serviceCheck": null,  
  
"manageCertificate": "Managed",  
  
"csrfToken": null,  
  
"enableEvent": false,  
  
"deviceCommunicationPort": {  
  
"sshPort": 22,  
  
"httpsPort": 443  
  
},  
  
"lastConnectedIP": null,  
  
"lastRebootTime": "4:27AM up 23 days",  
  
"haMode": null,  
  
"haActive": "Active",  
  
"highAvailability": [
```

```
],  
  
"lastConnectedHAList": null,  
  
"synchronizationGroups": null,  
  
"synchronizationGroupsMode": null,  
  
"syncGroup": null,  
  
"syncStatus": null,  
  
"trafficGroups": null,  
  
"syncFailoverGroupName": "",  
  
"syncOnlyGroups": null,  
  
"autoSyncEnabled": false,  
  
"autoSyncNeeded": false,  
  
"primaryDeviceId": null,  
  
"childDevicesInfo": null,  
  
"parentDeviceId": null,  
  
"parentDeviceName": null,  
  
"deviceBackupSettings": {  
  
  "name": null,  
  
  "mode": null,
```

```
"dayNumber": null,  
  
"dateNumber": null,  
  
"weekNumber": null,  
  
"month": null,  
  
"frequency": null,  
  
"startingFrom": null,  
  
"archiveCount": 5,  
  
"isDate": null,  
  
"isConfigBackUpEnabled": null,  
  
"configSettingsBackUpType": null,  
  
"configBackUpTime": null,  
  
"_id": null  
  
},  
  
"deviceGroups": [  
  
],  
  
"attributes": {  
  
"syslogHost": "192.168.142.156:5514"
```

```
},  
  
"generalAlert": null,  
  
"thresholdAlert": null,  
  
"deviceUri": null,  
  
"agentUri": null,  
  
"devIndex": 0,  
  
"platform": null,  
  
"userAction": null,  
  
"model": null,  
  
"sessionId": null,  
  
"tmosVersion": null,  
  
"createdBy": "admin",  
  
"noDetect": false,  
  
"createdDateTime": 1597816172139,  
  
"lastModifiedBy": "system",  
  
"lastModifiedDateTime": 1597862279214,  
  
"associatedDevices": null,  
  
"deviceSyncStatus": null,  
  
"hostName": "AVI_12.0_standalone",
```

```
"previousDeviceStatus": "Managed",

"deviceCommunication": "Success",

"localLBConfigUpdated": null,

"localLBConfigDownload": "Success",

"localLBConfigParsing": "Success",

"globalLBConfigUpdated": null,

"globalLBConfigDownload": "Success",

"globalLBConfigParsing": "Success",

"lastConfigUpdateTime": 1597862279168,

"communicationAddressType": "ip",

"lastPostConfigTriggeredTime": 1597862279476,

"regions": null,

"accountNumber": null,

"discoverySource": null,

"deviceUpgraded": false,

"postConfigFlag": false,

"authToken": null,

"tokenBasedAuthentication": false,
```

```
"lastConfigFetchTriggeredTime": 1597816251693,  
  
"managementIp": null,  
  
"lastManagedTime": 1597862279168,  
  
"_id": "5f3cbd6cecd19733ebccc6fb",  
  
"vLans": null,  
  
"iHealthReport": null,  
  
"isPrimary": true,  
  
"isAutoDetect": true,  
  
"isSecondaryCommunication": false,  
  
"isHostedOnHypervisor": false  
  
}  
  
],  
  
"totalRecords": 1,  
  
"obtainedRecords": 1,  
  
"obtainedRecordRange": {  
  
"start": 0,  
  
"end": 0  
  
}  
  
},
```

```
"message": "Matching results found for the given input.",  
  
"appStatusCode": null,  
  
"tags": null,  
  
"headers": null  
  
}
```

Sync Configuration

This API triggers configuration sync for a device available in Device Inventory.

- [Before you begin](#)
- [Request Structure](#)
- [Payload](#)
- [Response Structure](#)
- [Status Codes](#)
- [Sample Request/Response](#)

Before you begin

Before attempting to initiate configuration sync with this API, users must ensure any one of the ACF permission “ADC > Inventory > Fetch config” is available. This can be checked under Accounts > Role > Authorized Functions.

Request Structure

URL: /adc-device-config-sync

Type: POST

Param Type	Name	Description	Field Type	Constraints
Header	sessionId	Session ID received after login.	String	Required if username and password are not provided.
Header	username	AppViewX login username.	String	Required if sessionId is not provided.
Header	password	AppViewX login password.	String	Required if sessionId is not provided
Header	Content-Type	Specifies the nature of the data in the payload.	String	Value of the param should be 'application/json'.
Query	gwkey	Tenant Key. Needed only in case of multi tenant installations.	String	
Query	gwsource	Source from which the request is triggered (Eg: web, external).	String	
Body	payload	Contains all the params to be sent in the request body for the post request.	Key value pair. Payload	

Payload

Name	Mandatory	Description	Field Type	Constraints
deviceName	Yes	Name of the device.	String	It can contain only alphanumeric characters, '-', '_', '.', '*', ' ', '!.

Response Structure

On 202 Accepted, configuration sync will be initiated on requested device and string of type application/json will be returned with the following body params:

Name	Description	Field Type
response	Success message with device name or failure description in case of error.	String
message	Success message or failure description in case of error.	String
appStatusCode	Application specific status code for the response. Will be non-null for failure response.	String
tags	More info in case of failure response.	Key value pair

Status Codes

HTTP Status Code	appStatusCode	Message	Possible remediation
202 Accepted	-	Config sync triggered successfully.	-
400 Bad Request	ADC_INV_1559	Invalid Device Name. Device name cannot be null or empty.	<ul style="list-style-type: none"> • Check and ensure if non-null/non-empty value is given in field - 'payload'. • Check and ensure if non-null/non-empty value is given under payload field - 'deviceName'.
400 Bad Request	AVX-VLDTN-001	Invalid payload data.	Requested value in the deviceName field does not match the accepted pattern.
404 Not Found	ADC_INV_0010	Device not found.	Check if the requested device is added in the inventory.
403 Forbidden	ADC_INV_0005	Config fetch not allowed for Unmanaged/ Queued devices and Device(s) on which other operations are already in progress.	-

HTTP Status Code	appStatusCode	Message	Possible remediation
403 Forbidden	ADC_INV_1558	Cannot access resource, permission not available.	Check if Read/Read Write permission is available for the requested device.

Sample Request/Response

- [Use Case](#)
- [Sample Request](#)
- [Sample Response](#)

Use Case

Trigger configuration sync for the device - testDevice

Sample Request

```
{
  "payload": {
    "deviceName": "192.168.42.150"
  }
}
```

Sample Response

```
{
  "response": "Config sync triggered for given device - 192.168.42.150",
}
```

```
"message": "Config sync triggered successfully.",  
  
"appStatusCode": null,  
  
"tags": null,  
  
"headers": null  
  
}
```

Manage Device

This API changes the unmanaged state to managed state. Before the state of the device changed to managed state, the device configuration sync process was triggered.

- [Before you begin](#)
- [Request Structure](#)
- [Payload](#)
- [Response Structure](#)
- [Status Codes](#)
- [Sample Request/Response](#)

Before you begin

Before attempting to manage devices with this API, users must ensure any one of the ACF permission **ADC > Inventory > Manage / Unmanage** is available. This can be checked under **Accounts > Role > Authorized Functions**.

Request Structure

URL: /adc-device-manage

Type: PUT

Param Type	Name	Description	Field Type	Constraints
Header	sessionId	Session ID received after login.	String	Required if username and password are not provided.
Header	username	AppViewX login username.	String	Required if sessionId is not provided.
Header	password	AppViewX login password.	String	Required if sessionId is not provided.
Header	Content-Type	Specifies the nature of the data in the payload.	String	Value of the param should be 'application/json'.
Query	gwkey	Tenant Key. Needed only in case of multi-tenant installations.	String	
Query	gwsouce	Source from which the request is triggered (Eg: web, external).	String	
Body	payload	Contains all the params to be sent in the request body for the put request.	Key value pair Payload	

Payload

Name	Mandatory	Description	Field Type	Constraints
deviceName	Yes	Name of the device(s) to manage.	String[]	It can contain only alphanumeric characters, '-', '_', '.', '*', ' ', '!.

Response Structure

On 202 Accepted, manage device action will be initiated on requested device and string of type application/json will be returned with the following body params

Name	Description	Field Type
response	Success message or failure description in case of error.	String

Name	Description	Field Type
message	Success message or failure description in case of error.	String
appStatusCode	Application-specific status code for the response. Will be non-null for failure response.	String
tags	More info in case of failure response.	Key value pair

Status Codes

HTTP Status Code	appStatusCode	Message	Possible Remediation
202 Accepted	-	State change to manage the device has been initiated.	-
400 Bad Request	ADC_INV_0234	Device name is mandatory.Value cannot be null or empty.	Check and ensure a valid value is provided in field deviceName.
400 Bad Request	AVX-VLDTN-001	Invalid payload data.	Check and ensure a valid value is provided in field payload.
404 Not Found	ADC_INV_0010	Device not found.	Any of the given devices is not found in the database. Ensure if all the requested devices are added in inventory.
403 Forbidden	ADC_INV_0008	Selected device(s) are not in un-managed state. Operation cannot be performed.	All the requested devices are not in unmanaged state. Requested devices should be in unmanaged state to perform manage action.

Sample Request/Response

- [Use Case](#)
- [Sample Request](#)
- [Sample Response](#)

Use Case

Change the state of device ADC_DEVICE_1 from unmanaged to managed.

Sample Request

```
{  
  
  "payload": {  
  
    "deviceName": [  
  
      "ADC_DEVICE_1"  
  
    ]  
  
  }  
  
}
```

Sample Response

```
{  
  
  "response": "State change to manage the device has been initiated",  
  
  "message": "State change to manage the device has been initiated",  
  
  "appStatusCode": null,  
  
  "tags": null,  
  
  "headers": null  
  
}
```

}

Unmanage a Device

This API changes the state of ADC devices from managed state to unmanaged state. No action can be performed on the device(s), which are in the unmanaged state and its objects/applications.

- [Before you begin](#)
- [Request Structure](#)
- [Payload](#)
- [Response Structure](#)
- [Status Codes](#)
- [Sample Request/Response](#)

Before you begin

Before attempting to manage devices with this API, users must ensure any one of the ACF permission **ADC > Inventory > Manage / Unmanage** is available. This can be checked under **Accounts > Role > Authorized Functions**.

Request Structure

URL: /adc-device-unmanage

Type: PUT

Param Type	Name	Description	Field Type	Constraints
Header	sessionId	Session ID received after login.	String	Required if username and password are not provided.
Header	username	AppViewX login username.	String	Required if sessionId is not provided.
Header	password	AppViewX login password.	String	Required if sessionId is not provided.

Param Type	Name	Description	Field Type	Constraints
Header	Content-Type	Specifies the nature of the data in the payload.	String	Value of the param should be 'application/json'.
Query	gwkey	Tenant Key. Needed only in case of multi-tenant installations.	String	
Query	gwsouce	Source from which the request is triggered (Eg: web, external).	String	
Body	payload	Contains all the params to be sent in the request body for the put request.	Key value pair Payload	

Payload

Name	Mandatory	Description	Field Type	Constraints
deviceName	Yes	Name of the device(s) to manage.	String[]	It can contain only alphanumeric characters, '-', '_', ':', '*', ' ', '!'.

Response Structure

On 202 Accepted, unmanage device action will be initiated on requested device and string of type application/json will be returned with the following body params

Name	Description	Field Type
response	Success message or failure description in case of error.	String
message	Success message or failure description in case of error.	String
appStatusCode	Application specific status code for the response. Will be non-null for failure response.	String
tags	More info in case of failure response.	Key value pair

Status Codes

HTTP Status Code	appStatusCode	Message	Possible remediation
202 Accepted	-	State change to unmanage the device has been initiated.	-
400 Bad Request	ADC_INV_0234	Device name is mandatory.Value cannot be null or empty.	Check and ensure a valid value is provided in field deviceName.
400 Bad Request	AVX-VLDTN-001	Invalid payload data.	Check and ensure a valid value is provided in field payload.
404 Not Found	ADC_INV_0010	Device not found.	Any of the given devices are not found in the database. Ensure if all the requested devices are added in inventory
403 Forbidden	ADC_INV_0009	Selected device(s) are in in-progress/un-managed state. Operation cannot be performed.	All the requested devices are in unmanaged/inprogress state. Requested devices should not be in Inprogress/unmanaged state.

Sample Request/Response

- [Use Case](#)
- [Sample Request](#)
- [Sample Response](#)

Use Case

Change the state of device ADC_DEVICE_1 from managed to unmanaged.

Sample Request

```
{
```

```
"payload": {  
  
  "deviceName": [  
  
    "ADC_DEVICE_1"  
  
  ]  
  
}
```

Sample Response

```
{  
  
  "response": "State change to unmanage the device has been initiated.",  
  
  "message": "State change to unmanage the device has been initiated.",  
  
  "appStatusCode": null,  
  
  "tags": null,  
  
  "headers": null  
  
}
```

Chapter 3: Dashboard

- [Overview: Dashboard](#)
- [Create an Application Widget](#)
- [Delete a Widget](#)

Overview: Dashboard

By using the following APIs, you can manage, monitor, and interpret all the configured applications and their objects.

Create an Application Widget

This API creates an Application widget and configures objects.

- [Before you begin](#)
- [Request Structure](#)
- [Payload](#)
- [Response Structure](#)
- [Status Codes](#)
- [Sample Request/Response](#)

Before you begin

Before attempting to create an application widget with this API, users must ensure ACF permission **ADC > Dashboard Application widget > Add /Delete** is available. This can be checked under **Accounts > Role > Authorized Functions**.

Request Structure

URL: /dashboard-widget-applicationview

Type: POST

Param Type	Name	Description	Field Type	Constraints
Header	sessionId	Session ID received after login.	String	Required if username and password are not provided.
Header	username	AppViewX login username.	String	Required if sessionId is not provided.
Header	password	AppViewX login password.	String	Required if sessionId is not provided.
Header	Content-Type	Specifies the nature of the data in the payload.	String	Value of the param should be 'application/json'
Query	gwkey	Tenant Key. Needed only in case of multi-tenant installations.	String	
Query	gwsouce	Source from which the request is triggered (Eg: web, external)	String	
Query	dashboardName	Name of the dashboard in which a widget is to be created. If the given dashboard is not available a new dashboard will be created in the given name.	String	Mandatory. Accepts only '_', '-', ':', '.', ' '(Should not be empty and not start with special characters).
Body	payload	Contains all the params to be sent in the request body for the put request.	Key value pair Payload	-

The input supports up to three hierarchical levels of groups. group, subGroup1, subGroup2, subGroup3 are static keys.

Payload

Name	Mandatory	Description	Field Type	Constraints
name	Yes	Name of the widget.	String	Accepts only '_', '-', ':', '.', ' '(Should not be empty and not start with special characters).

Name	Mandatory	Description	Field Type	Constraints
group	No	Contains attributes denoting the group to be created.	Key value pair[] Group	-

- [Widget Group](#)
- [ObjectInfo](#)
- [Object](#)
- [Action](#)

Widget Group

Name	Mandatory	Description	Field Type	Constraints
name	Yes	Name of the group.	String	Accepts only '_', '-', ':', '!', ' '(Should not be empty and not start with special characters).
action	No	Contains a list of attributes denoting the actions to be added in the group.	Key value pair[] Action	-
objects	No	Contains a list of attributes related to the object to be added in the group such as hierarchy,vendor,objectType.	Key value pair[] ObjectInfo	-
subGroup1	No	Subgroups to be added within this group. Only three levels of groups are possible. Groups can be mentioned with static keys group,subGroup1,subGroup2 within one another.	Key value pair[] Group	-

ObjectInfo

Name	Mandatory	Description	Field Type	Constraints
vendor	No	Device vendor.	String	-
objectType	No	Object Type as mentioned in AppViewX.	String	-
hierarchy	No	Hierarchy to display.	String	-
selectedList	No	List of objects along with actions to be associated with the object.	Key value pair[] Object	-

Object

Name	Mandatory	Description	Field Type	Constraints
resourceId	No	Resource id of the object to be added in the widget group. Note: Use the search API to search/get the resource ID.	String	-
actions	No	List of actions to be associated with this object. Action name should be the custom action name defined under 'action.name' property of the group.	String[]	-

Action

Name	Mandatory	Description	Field Type	Constraints
name	No	Name to be given for the particular action in this group.	String	-
type	No	Type of action. Limited to the actions that are supported in AppviewX.	String	-

Response Structure

200 OK, returns string of type application/json with the following body params

Name	Description	Field Type
response	Success message or failure description in case of error	String
message	Success message or failure description in case of error	String
appStatusCode	Application-specific status code for the response. Will be non-null for failure response.	String
tags	More info in case of failure response	Key value pair

Status Codes

HTTP Status Code	appStatusCode	Message	Possible remediation
200 OK	-		-
400 Bad Request	DASH_WID_APPVIEW_0001	Mandatory field 'dashboardName' is missing	Check and ensure if a non-null/non-empty value is given in query param field - 'dashboardName'
400 Bad Request	ADC_DASH_0511	Exception : Invalid Widget name	Check and ensure if a valid value for widget name is given in payload field - 'name'. Field accepts only '_', '-', ':', '!', ' '(Should not be empty and not start with special characters).
400 Bad Request	ADC_DASH_0517	Exception : Invalid Action	Check the action name given in the group field - 'action.type'. Limited to actions supported in AppViewX
400 Bad Request	ADC_DASH_0518	Exception : Invalid hierarchy	Check the value given under the object field - 'hierarchy' is supported. Valid hierarchies for requested vendor and objectType can be found in tags field of response also

HTTP Status Code	appStatusCode	Message	Possible remediation
400 Bad Request	ADC_DASH_0014	Invalid dashboard name.	Change the value given in the query param field - 'dashboardName' and retry. dashboardName field accepts only '_', '-', ':', '!', ' '(Should not be empty and not start with special characters).
400 Bad Request	ADC_DASH_0516	Exception : Duplicate Action	Check if any of the action is already configured in the group or parentGroup. Group name in which duplicate is found will be available in tags field of response
403 Forbidden	ADC_DASH_0005	Permission not available for dashboard.	Check if the logged in user has access to the requested dashboard
409 Conflict	ADC_DASH_0010	Widget name already exists.	Change the widget name in the request and retry
404 Not Found	DASH_WID_APPVIEW_0003	Object not found	Check if requested objects are available in AppViewX. Missing objects resourceIds will be available under tags field of response.
500 Internal Server Error	ADC_DASH_0507	Exception occurred while adding Application widget	<ul style="list-style-type: none"> • Check if given value under object field 'vendor' is support by AppViewX • Check if given value under object field 'objectType' is support by AppViewX

HTTP Status Code	appStatusCode	Message	Possible remediation
409 Conflict	ADC_DASH_0607	Object Count of the Widget exceeds threshold limit {thresholdLimit}. Currently added Object count : {CurrentCountInRequest}	Remove input objects so the input count should be within allowed threshold limit(1000)

Sample Request/Response

- [Use Case](#)
- [Sample Request](#)
- [Sample Response](#)

Use Case

- Create an application widget with a name appwidget and with a group group_1.
- group_1 to have two actions configured – enable and disable.
- group_1 to have two virtual servers – ‘vs:@5f4e2ffafcb9809756c6b4d:@ACLTest:@Common’ and ‘vs:@5f4e2ffafcb9809756c6b4d:@ACLTest1:@Common’ configured in it.
- Both the virtual servers to display all the hierarchical children in the group (hierarchy: all) ‘vs:@5f4e2ffafcb9809756c6b4d:@ACLTest:@Common’ and ‘vs:@5f4e2ffafcb9809756c6b4d:@ACLTest1:@Common’ to have actions - enable(en) and disable(dis) configured. group_1 to have child group ‘grp_sub1’ inside it .
- ‘grp_sub1’ to have two wide IP inside – ‘gw:@5f4e3423fcb9809756c6b82:@test.com:@Common:@a’ and ‘gw:@5f4e3423fcb9809756c6b82:@AppViewXSyslog.com:@Common:@a’.
- Both the wide IPs to display all the hierarchal children in the group (hierarchy: all)
- Both the wide IPs to be configured with actions enable persistence(enPer) and disable persistence(disPer).
- ‘grp_sub1’ to be configured with actions enable persistence(enPer) and disable persistence(disPer).

Sample Request

```
{  
  
  "payload": {  
  
    "name": "appwidget",  
  
    "group": [  
  
      {  
  
        "name": "group_1",  
  
        "action": [  
  
          {  
  
            "name": "en",  
  
            "type": "Enable"  
  
          },  
  
          {  
  
            "name": "dis",  
  
            "type": "Disable"  
  
          }  
  
        ],  
  
        "objects": [  
  
          {
```

```
"vendor": "F5",

"objectType": "VirtualServer",

"hierarchy": "All",

"selectedList": [

  {

    "resourceId": "vs:@5f4e2ffa9cbb9809756c6b4d:@ACLTest:@Common",

    "actions": [

      "en",

      "dis"

    ]

  },

  {

    "resourceId": "vs:@5f4e2ffa9cbb9809756c6b4d:@ACLTest1:@Common",

    "actions": [

      "en",

      "dis"

    ]

  }

]
```

```
}  
  
],  
  
"subGroup1": [  
  
  {  
  
    "name": "grp_sub1",  
  
    "action": [  
  
      {  
  
        "name": "enPer",  
  
        "type": "EnablePersistence"  
  
      },  
  
      {  
  
        "name": "disPer",  
  
        "type": "DisablePersistence"  
  
      }  
  
    ],  
  
  ],  
  
"objects": [  
  
  {  
  
    "vendor": "F5",
```

```
"objectType": "widelp",

"hierarchy": "All",

"selectedList": [

  {

    "resourceId": "gw:@5f4e3423fcbb9809756c6b82:@gowthamTest.com:@Common:@a",

    "actions": [

      "enPer",

      "disPer"

    ]

  },

  {

    "resourceId": "gw:@5f4e3423fcbb9809756c6b82:@AppViewXSyslog.com:@Common:@a",

    "actions": [

      "enPer",

      "disPer"

    ]

  }

]
```

```
]
}
]
}
]
}
]
```

Sample Response

```
{
  "response": "Application widget is created under the given dashboard.",
  "message": "Application widget is created under the given dashboard.",
  "appStatusCode": null,
  "tags": null,
  "headers": null
}
```

Delete a Widget

This API deletes any widget that is created by the AppViewX user.

- [Before you begin](#)
- [Request Structure](#)

- [Response Structure](#)
- [Status Codes](#)
- [Sample Request/Response](#)

Before you begin

Before attempting to delete a widget with this API, user must ensure any one of the below ACF permissions is available,

- General > Dashboard > Create / Delete
- ADC > Dashboard > Application widget > Add / Delete
- ADC > Dashboard > Class management widget > Add / Delete
- ADC > Dashboard > Device heat map widget > Add / Delete
- ADC > Dashboard > Script execution widget > Add / Delete
- ADC > Dashboard > Traffic grid widget > Add / Delete
- ADC > Dashboard > Traffic statistics widget > Add / Delete

This can be checked under Accounts > Role > Authorized Functions.

Request Structure

URL: /dashboard-widget

Type: DELETE

Param Type	Name	Description	Field Type	Constraints
Header	sessionId	Session ID received after login.	String	Required if username and password are not provided.
Header	username	AppViewX login username.	String	Required if sessionId is not provided.
Header	password	AppViewX login password.	String	Required if sessionId is not provided.

Param Type	Name	Description	Field Type	Constraints
Query	gwkey	Tenant Key. Needed only in case of multi tenant installations.	String	
Query	gwsource	Source from which the request is triggered (Eg: web, external).	String	
Query	dashboardName	Name of the dashboard.	String	Mandatory. Allowed special characters : '_', '-', ':', '.', ' ' (Should not be empty and not start with special characters).
Query	widgetName	Name of the class management widget.	String	Mandatory. Allowed special characters : '-', '_', '.', ':', ' '

Response Structure

On 200 OK, the requested widget will be deleted and string of type application/json will be returned with the following body params

Name	Description	Field Type
response	Success message or failure. description in case of error.	String
message	Success message or failure description in case of error	String
appStatusCode	Application specific status code for the response. Will be non-null for failure response.	String
tags	More info in case of failure response.	Key value pair

Status Codes

HTTP Status Code	appStatusCode	Message	Possible Remediation
200 OK	-	Widget deleted successfully.	-
400 Bad Request	ADC_DASH_8791	Dashboard name is mandatory.	Check and ensure if a valid value is given in the query param field - dashboardName.
400 Bad Request	ADC_DASH_8792	Widget name is mandatory.	Check and ensure if a valid value is given in query param field - widgetName
404 Not Found	ADC_DASH_0045	Dashboard not available for given name.	Requested dashboard not available in database. Check if the dashboard is deleted.
404 Not Found	ADC_DASH_3010	Widget not found.	Check if the widget is deleted or if the widget is available in a different dashboard.
403 Forbidden	ADC_DASH_0048	Permission not available for dashboard.	Check if the user has Read Write access for the requested dashboard.

Sample Request/Response

- [Use Case](#)
- [Request URL](#)
- [Sample Request](#)
- [Sample Response](#)

Use Case

Delete a widget named widget_1 from the dashboard dashboard_1.

Request URL

https://192.168.98.27:31443/avxapi/dashboard-widget?
dashboardName=dashboard_1&widgetName=widget_1&gwkey=f000ca01&gwsource=external

Sample Request

NA

Sample Response

```
{  
  
  "response": "Widget deleted successfully.",  
  
  "message": "Widget deleted successfully.",  
  
  "appStatusCode": null,  
  
  "tags": null,  
  
  "headers": null  
  
}
```