Delete Virtual F5 and Citrix Workflow Guide

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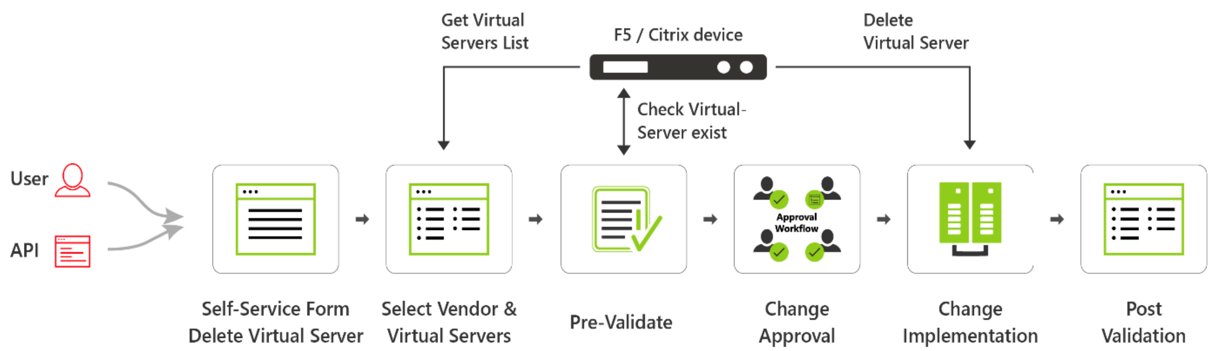
Description

The Delete Virtual F5 and Citrix automation workflow is used to delete multiple virtual servers and their associated objects, such as profiles and monitors. This workflow filters the available F5 and Citrix ADC devices based on a user's access permissions, defined by Role Based Access Control (RBAC), and displays a list of virtual servers available on each ADC device. The configurations used to delete the virtual server and its associated profiles and monitors are reviewed and approved by AppViewX. After approval is granted, the virtual server and its *unused* dependent objects, such as profiles and monitors, are deleted. Dependent objects that are associated with other virtual servers are not deleted.



Prerequisites

To run this automation workflow, ensure that the following prerequisites are met:

- Free AppViewX, AppViewX version12.1.0, or AppViewX version12.2.0 has been downloaded and installed.
- The ADC devices have been added in the AppViewX inventory and assigned to a data center.
- Each ADC device is a managed entity in AppViewX.

Compatible Software Versions

The automation temple has been tested and validated for the following software versions:

- AppViewX – Free AppViewX version, version 12.1.0, and version 12.2.0
- F5 (both LTM and GTM) – version 10.x, 11.x, and 12.x
- Citrix Device – ns version 11.0

Limitations

NA

Log In to AppViewX

Log in to the AppViewX web interface. The standard format for a login URL is:

`https://hostname:portnumber`.

The hostname and port number are configured during deployment, with the default port number set to `5004` and the default web credentials set to `admin`/`AppViewX@123`

Note: It is recommended that you access AppViewX using Internet Explorer, Firefox, or Google Chrome.

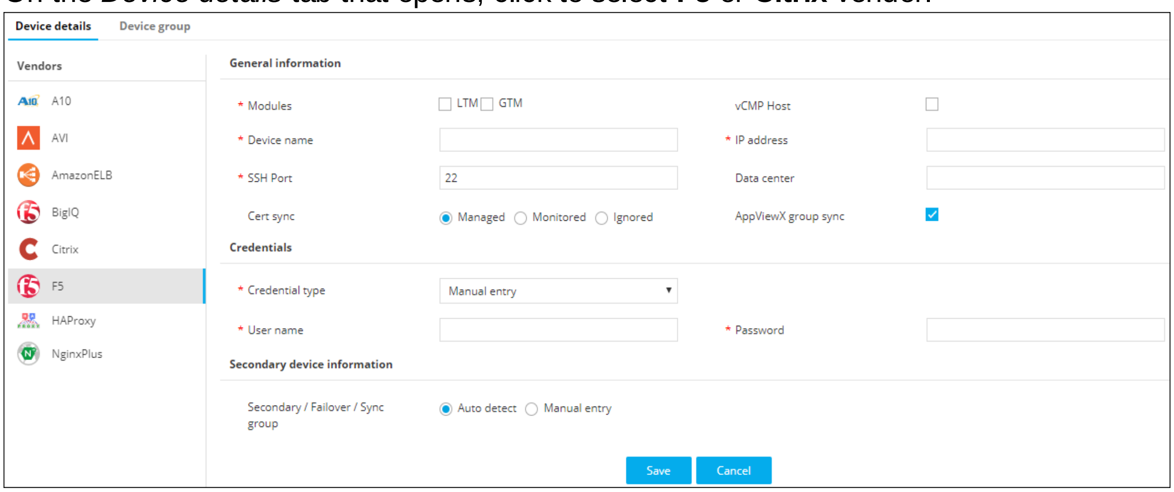
Add an ADC Device: F5 and Citrix

To add an ADC device, complete the following steps:

1. Click the (**Menu**) button.
2. Navigate to **Inventory** > **Device**.

   The *Device* screen opens with **ADC** tab displayed by default.
3. Click the + (**Add**) button in the Command bar.

   On the *Device details* tab that opens, click to select **F5** or **Citrix** vendor.



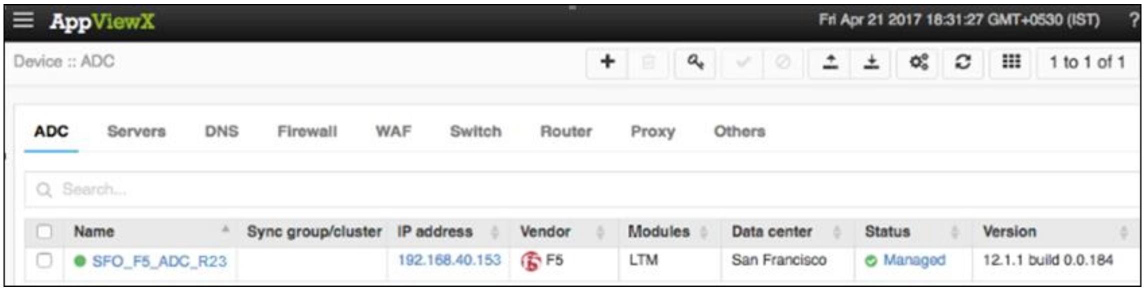
4. Select the module or modules to be managed on the ADC device.
5. Click the **vCMP Host** check box if you want to add and manage the vCMP guest devices (applicable only for F5 devices).
6. In the **Device name** field, enter a name for the device to help users identify it.
7. In the **IP address** field, enter the management IP address of the device.
8. Enter the default or custom defined **SSH port** number for the device.
9. (Optional) Specify a **data center** name in which the device resides. Later on you can filter devices based on the location assigned to them.
10. In the **Cert sync** field, select the radio button for the kind of synchronization relationship you want to establish between SSL certificates on the ADC device and AppViewX: **Managed**, **Monitored**, or **Ignored**.
11. (Optional) Select the **AppViewX group sync** check box if you need AppViewX to sync the configuration changes from an active to standby ADC device.

    Note: This is required only in older versions, as the latest versions sync automatically.

12. From the **Credential type** dropdown list, select how to want to provide the credentials:
    - Select **Manual entry**, if you want to manually enter the credential details (user name and the associated password) every time when the device is accessed.
    - Select **Credential list**, if you want to retrieve the login details created in the credential template. For more details on how to add a credential to a device, refer to the Add a Credential section of this guide.

      You must select the credential name from the dropdown list and the user name and password fields will be auto-filled with the values provided while creating a Credential template.
13. Select **Auto detect** to automatically detect and add secondary or failover devices or sync groups to the ADC device inventory.
14. Select **Manual Entry** to manually add secondary or failover devices or sync groups to the ADC device inventory.
15. At a minimum, fill in all fields that contain a red asterisk beside their names.
16. Click **Add**. The secondary device then appears in the table at the bottom of the screen.

    Note: You can add more than one secondary device. **Update**/**Delete** buttons will be enabled only when you try to modify existing secondary devices.
17. Click **Save**. The new device is added to the AppViewX inventory and appears in the table at the bottom of the ADC tab.



Each device displays one of the following statuses:

- **In Progress** – Device configuration fetch is in progress.
- **Managed** – Device configurations are fetched and parsed successfully. This is the status a successfully added ADC device should have.
- **Unresolved** – Unable to communicate with device, due to invalid login credentials.
- **Failed** – Device configuration fetch failed, due to unsupported version.

Import Visual Workflows

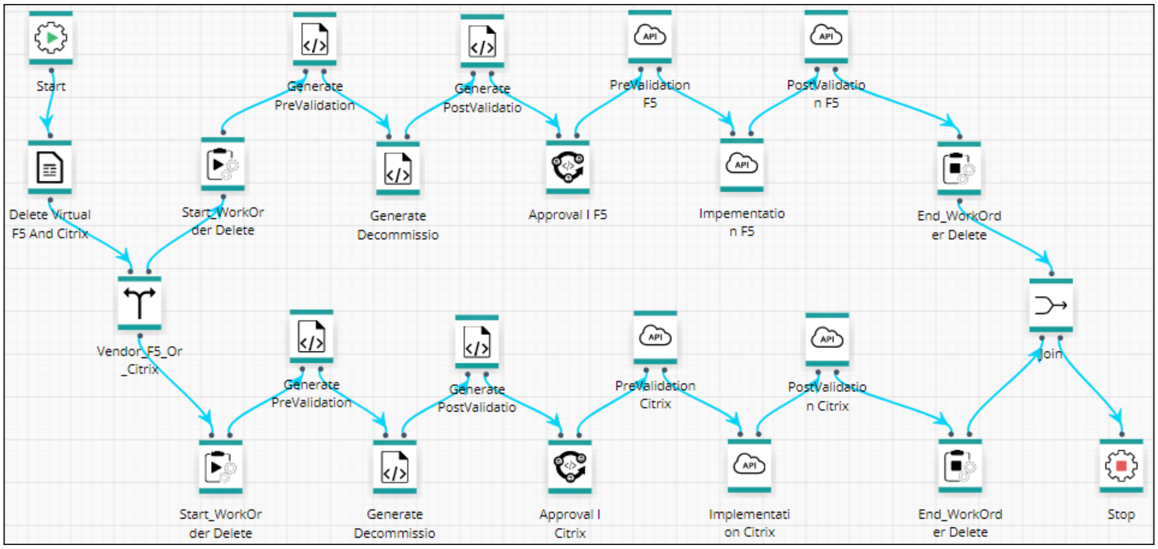
Note: Free AppViewX comes preloaded with visual workflows. You will only need to use the following import instructions when newer versions of the workflows are available.

1. Click the (**Menu**) button.
2. Navigate to **Workflow > Configurator**.
3. Click the (**Import**) button in the Command bar.
4. On the *Import* screen that opens, complete the following steps:
   a. Click the **Browse** button.
   b. Select the zip file containing one or more workflows, then click **Upload**.

c. In the table at the bottom of the Import page, select the check box beside the unzipped workflow file.

d. Click **Submit** to deploy the workflow into your AppViewX environment.

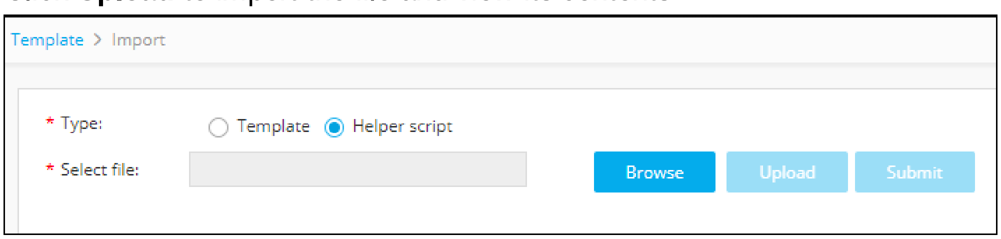
The Delete Virtual F5 and Citrix workflow is shown in the image below:



Import Helper Scripts

Note: Free AppViewX comes preloaded with helper scripts. You will only need to use the following import instructions when newer versions of the helper scripts are available.

1. Click the (**Menu**) button.
2. Navigate to **Provisioning > Templates**.
3. Click the (**Import**) button in the Command bar.
4. On the *Import* screen that opens, complete the following steps:
   a. Select the **Helper script** radio button.
   b. Click **Browse** and select the helper script zip file you want to import.
   c. Click **Upload** to import the file and view its contents.



   d. In the table at the bottom of the Import page, select the check boxes beside each of the helper scripts.
   e. Click **Submit** to deploy them into your AppViewX environment.

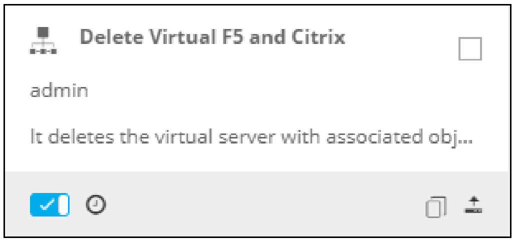
Enable a Workflow

To enable the workflow, complete the following steps:

1. Click the (**Menu**) button.
2. Navigate to **Workflow** > **Configurator**.

   The *Workflow* screen opens.
3. Click the (**Select**) button on the Delete Virtual F5 and Citrix workflow to enable. If the workflow is already selected, a (**Deselect**) button appears.
4. Click the (Enable) button in the Command bar.

   Note: You can also enable the Delete Virtual F5 and Citrix workflow from the Card view by clicking the (**Disable**) button.

   On the *Confirmation* screen that appears, click **Yes**.

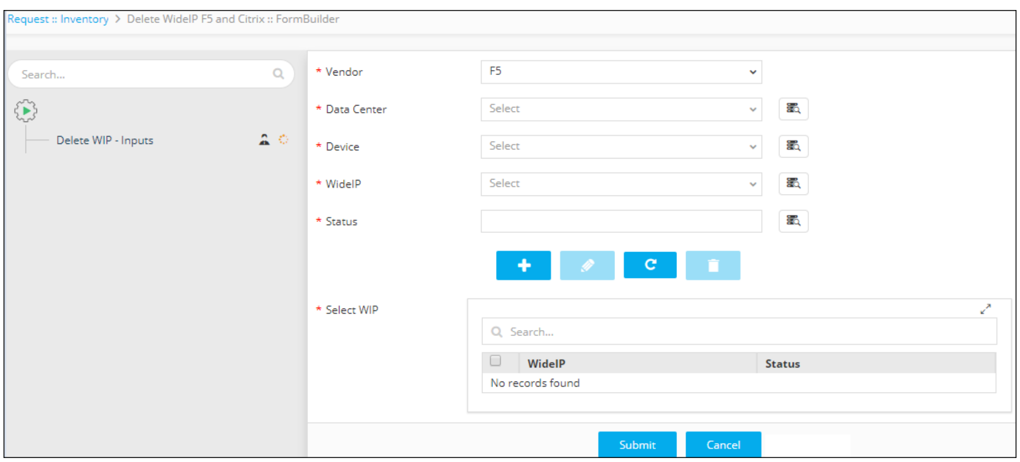
Delete Virtual F5 and Citrix

To submit the delete virtual F5 and Citrix workflow, complete the following steps:

1. Click the (**Menu**) button.
2. Navigate to **Provisioning** > **Request**.

   The *Request* screen opens with **My catalog** tab displayed by default. This screen displays all enabled workflows assigned to a specific user role.
3. Click the (**Run workflow**) button on the Delete virtual F5 and Citrix workflow.

   The *Form Builder* screen opens.

4. Select **F5** or **Citrix** as the Vendor from the drop down list.
5. In the **Select the Data Center** field, click the (**Retrieve field values**) button to retrieve the data centers based on the ADC vendor you selected. Select the required data center from the drop-down list.

6. In the **Select the Device** field, click the (**Retrieve field values**) button to retrieve the devices based on the ADC vendor selected. Select the required device from the drop-down list.
7. In the **Virtual Server** field, click the (**Retrieve field values**) button to retrieve the virtual servers of the selected device. Select the required virtual server from the drop-down list.
8. In the **Status** field, click the (**Retrieve field values**) button to retrieve the status of the Virtual Servers.
9. Click the (**Add**) button. The Virtual server details appear in the table at the bottom of the screen.

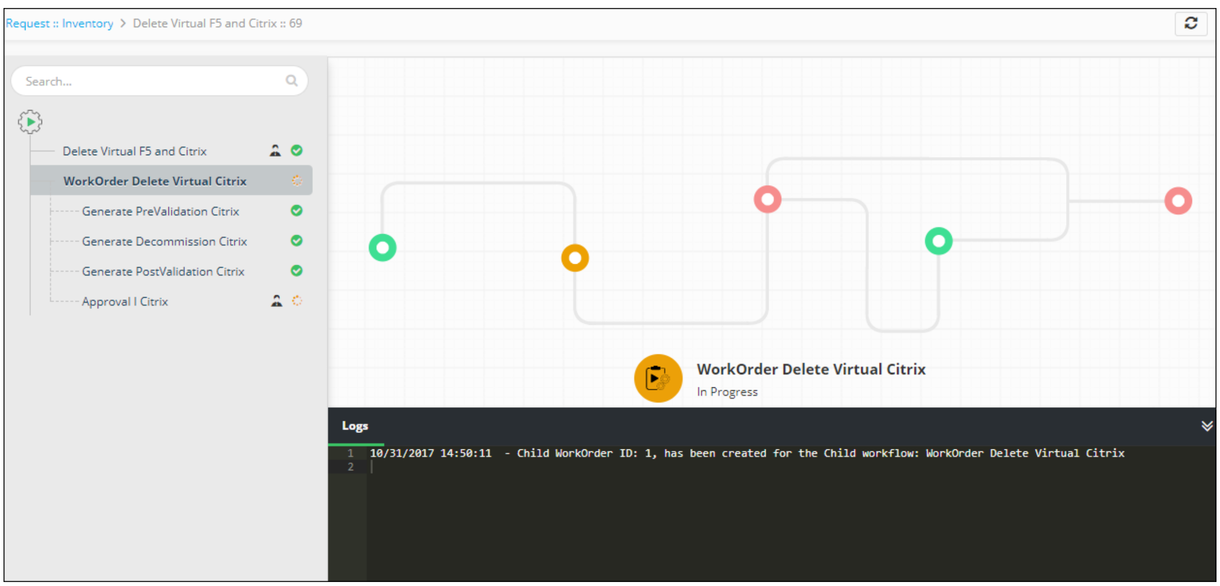
   Note: You can add more than one virtual server. The **Modify** and **Delete** buttons are enabled only when you try to modify the details of an existing virtual server.
10. Click **Submit**.

    To view request details, refer to the Request Inventory section of this guide

Work Order Flow

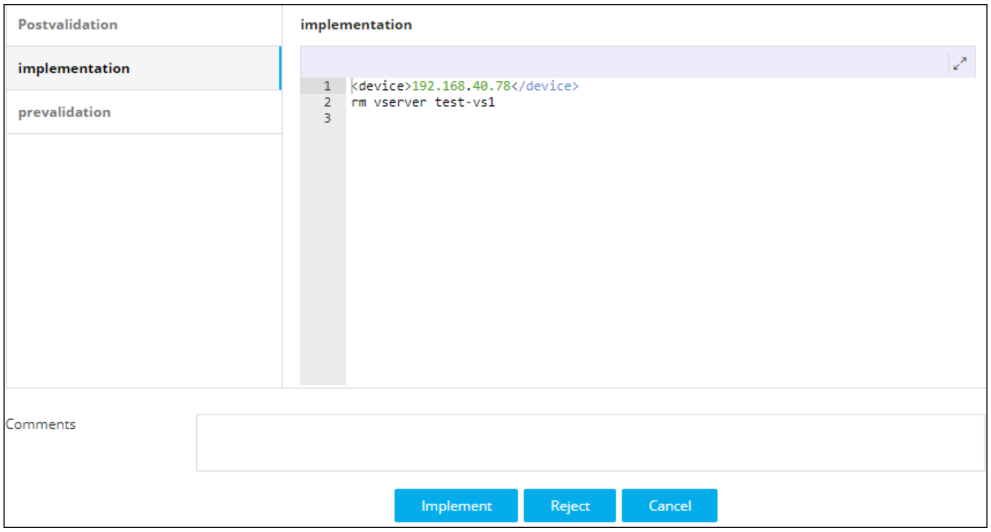
The following are the work order tasks for the Delete virtual F5 and Citrix workflow.

Note: You can click each task to view its details. Wherever applicable, all logs related to the selected task are displayed in the Logs pane at the bottom of the screen.



1. **Generate Prevalidation —** Pre-validation commands are generated in order to initiate the pre-validation process.
2. **Generate Decommission —** Configuration commands are generated to implement the deletion of a virtual server from a source device.
3. **Generate Postvalidation —** Post validation commands are generated in order to initiate the post-validation process.
4. **Approval 1 —** Approval of a work order is based on the role assigned to the user (who has an access to approve and implement). After you submit the request form, the

configuration changes are reviewed and approved at AppViewX. The changes are implemented on the device only after approval is received.



a. Select the **Prevalidation** tab and then, click **Imment**.

   This will validate the following:

   - A list of virtual servers and their associated objects available in the source device.
   - Performance metrics, such as CPU and memory utilization on the destination device.

b. Select the **Implementation** tab and then click **Implement**. The virtual server and its dependent objects, such as profiles and monitors, are deleted.

c. Select the **Postvalidation** tab and then click **Implement**. This validates if the virtual server and its associated objects have been deleted successfully.

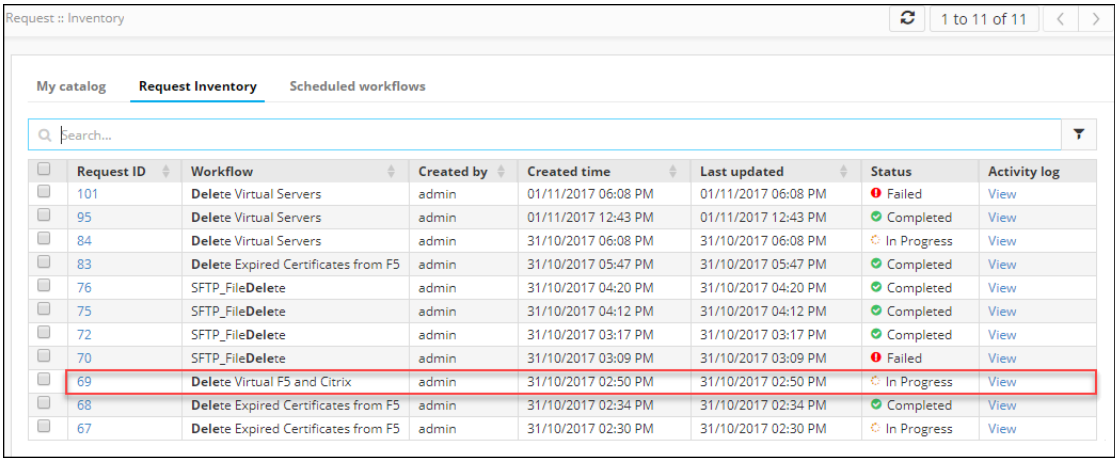
Request Inventory

To go to the Request inventory, complete the following steps:

1. Click the (**Menu**) button.
2. Navigate to **Workflow** > **Request**.

   The *Request* screen opens with **My catalog** tab displayed by default.
3. Click the **Request Inventory** tab.

   This displays all workflows that have been triggered. On the **Request Inventory** screen, you can search for requests using the **Search** field. Click the (**Filter**) button to select the options you want to use to sort the requests.



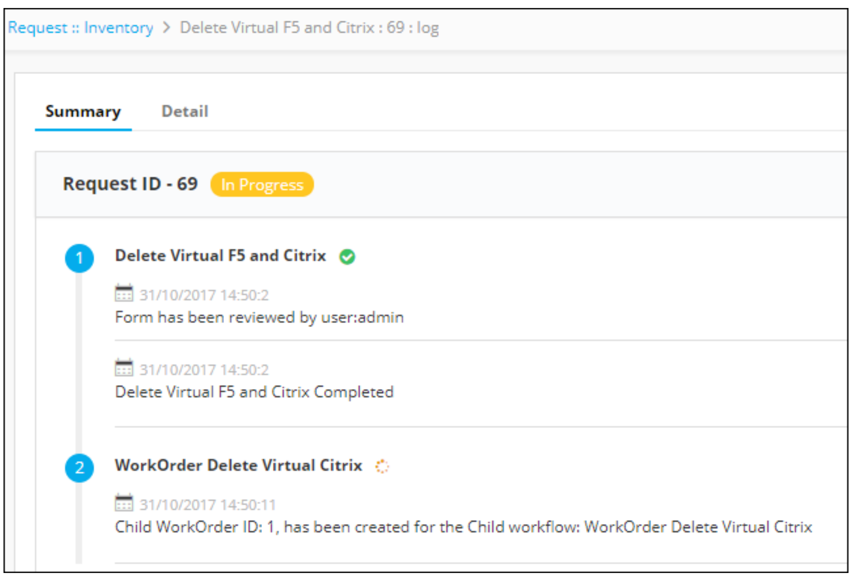
Request :: Inventory — 1 to 11 of 11

My catalog | Request Inventory | Scheduled workflows

Search...

	Request ID	Workflow	Created by	Created time	Last updated	Status	Activity log
	101	Delete Virtual Servers	admin	01/11/2017 06:08 PM	01/11/2017 06:08 PM	Failed	View
	95	Delete Virtual Servers	admin	01/11/2017 12:43 PM	01/11/2017 12:43 PM	Completed	View
	84	Delete Virtual Servers	admin	31/10/2017 06:08 PM	31/10/2017 06:08 PM	In Progress	View
	83	Delete Expired Certificates from F5	admin	31/10/2017 05:47 PM	31/10/2017 05:47 PM	Completed	View
	76	SFTP_FileDelete	admin	31/10/2017 04:20 PM	31/10/2017 04:20 PM	Completed	View
	75	SFTP_FileDelete	admin	31/10/2017 04:12 PM	31/10/2017 04:12 PM	Completed	View
	72	SFTP_FileDelete	admin	31/10/2017 03:17 PM	31/10/2017 03:17 PM	Completed	View
	70	SFTP_FileDelete	admin	31/10/2017 03:09 PM	31/10/2017 03:09 PM	Failed	View
	69	Delete Virtual F5 and Citrix	admin	31/10/2017 02:50 PM	31/10/2017 02:50 PM	In Progress	View
	68	Delete Expired Certificates from F5	admin	31/10/2017 02:34 PM	31/10/2017 02:34 PM	Completed	View
	67	Delete Expired Certificates from F5	admin	31/10/2017 02:30 PM	31/10/2017 02:30 PM	In Progress	View

4. Click the **Request ID** of the requested workflow to view the tasks or phases of a request in a tree-view.
5. You can also view the following details of the request that are created: by whom and when the Request was created, Last updated time, Status and the Activity log.
6. Click **View** in the **Activity log** column to display the request in a stage-view. In the **Summary** tab, click the (**Expand**) icon to view the details of each task. Click the **Details** tab to view log messages and other particulars of a request.



Schedule a Workflow

To schedule a workflow, complete the following steps:

1. Click the (**Menu**) button.
2. Navigate to **Workflow** > **Request**.

   The *Request* screen opens with the **My catalog** tab displayed by default.
3. Click the (**Schedule workflow**) button on the respective workflow.

4. On the window that opens, select the frequency of the policy migration process: once, hourly, daily, weekly, monthly, or yearly. The remaining fields in the Scheduler region update depending on what you select here.
5. Click **Save**.

Scheduled Workflows

Displays all workflows that have been scheduled. To go to the scheduled workflow screen, complete the following steps:

1. Click the (**Menu**) button.
2. Navigate to **Workflow** > **Request**.
3. The *Request* screen opens with **My catalog** tab displayed by default.
4. Click the **Scheduled workflows** tab.
5. On the Scheduled workflow screen that appears, you can perform the following tasks:
    a. In the **View log** column, click **View** to display the details of a scheduled workflow.
    b. Click the (Pause) or (Resume) button to temporarily stop or continue the execution of a workflow.

Add a Credential

To add a credential to a device, complete the following steps:

1. Click the (**Menu**) button.
2. Navigate to **Inventory** > **Device**.

   The *Device* screen opens with the **ADC** tab selected by default.
3. Click the check box beside the device name, then click the (**Credential**) button in the Command bar.
4. On the *Add credential* screen that appears, enter the name of the credential you want to add to the device.
5. Enter the **username** and **password** associated with the credential.
6. (Optional) If a secondary credential password was created by a vendor in order to communicate with the device, thus allowing different levels of control over the credential, enter this password in the **Secondary password** field.
7. Click **Save**.

   The credential is then added to the table at the bottom of the screen. You can delete a credential or modify its name, user name, or password by selecting the check box beside the credential name in the table at the bottom of the screen and then clicking either the **Modify credential** or **Delete** button in the Command bar.

Troubleshooting

I cannot find the Delete Virtual F5 and Citrix workflow in the Request Catalog

You must enable the workflow from the Configurator section. For more details on how to enable a workflow, refer to the Enable a Workflow section of this guide.