AppViewX

Provisioning Template

Create Wide IP with SNAT and Traffic Group

September 2017

Trademarks

The trademarks, logos, and service marks displayed in this manual are the property of AppViewX or other third parties. Users are not permitted to use these marks without the prior written consent of AppViewX or such third party which may own the mark.

This product includes software developed by the CentOS Project (www.centos.org).

This product includes software developed by Red Hat, Inc. (www.redhat.com).

This product includes software developed by the VMware (www.vmware.com).

All other trademarks mentioned in this document are the property of their respective owners.

Contact Information

AppViewX, Inc.

500 Yale Avenue North, Suite 100

Seattle, WA 98109

Tel: +1 (212) 400 7541

Tel: +44 (0) 203-514-2226

Email: info@appviewx.com Web:

http://www.appviewx.com

Description

The "Create Wide IP with SNAT and Traffic Group" template is used to create multiple virtual servers (VIP) under a single Wide IP. In this template, either a virtual server (that are classified into two categories such as an existing virtual server and new virtual server) or a generic host (an end server) is added as a new pool member to the Wide IP. You can also create a new virtual server pool with or without associating it to the existing monitor, SNAT pool, and traffic group.

Following is the work order flow for this template:

1. **Pre-Validation** ─ Not applicable
2. **Approval** ─ 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 through one level of approval and only then the changes are implemented on the device.
3. **Implementation** ─ In an ADC device, multiple virtual servers and its associated objects such as pro-files, monitors, pool, and pool members are created under a Wide IP. The SNAT pool and Traffic group that you selected will also be associated to the virtual servers.
4. **Post-Validation** ─ Not applicable
5. **Rollback** ─ A roll back option is triggered to delete (decommission) the configuration changes that were implemented within the work order for creating a Wide IP.

   Note: The associated objects are not deleted by the rollback option, provided those objects are not associated with any other virtual server.
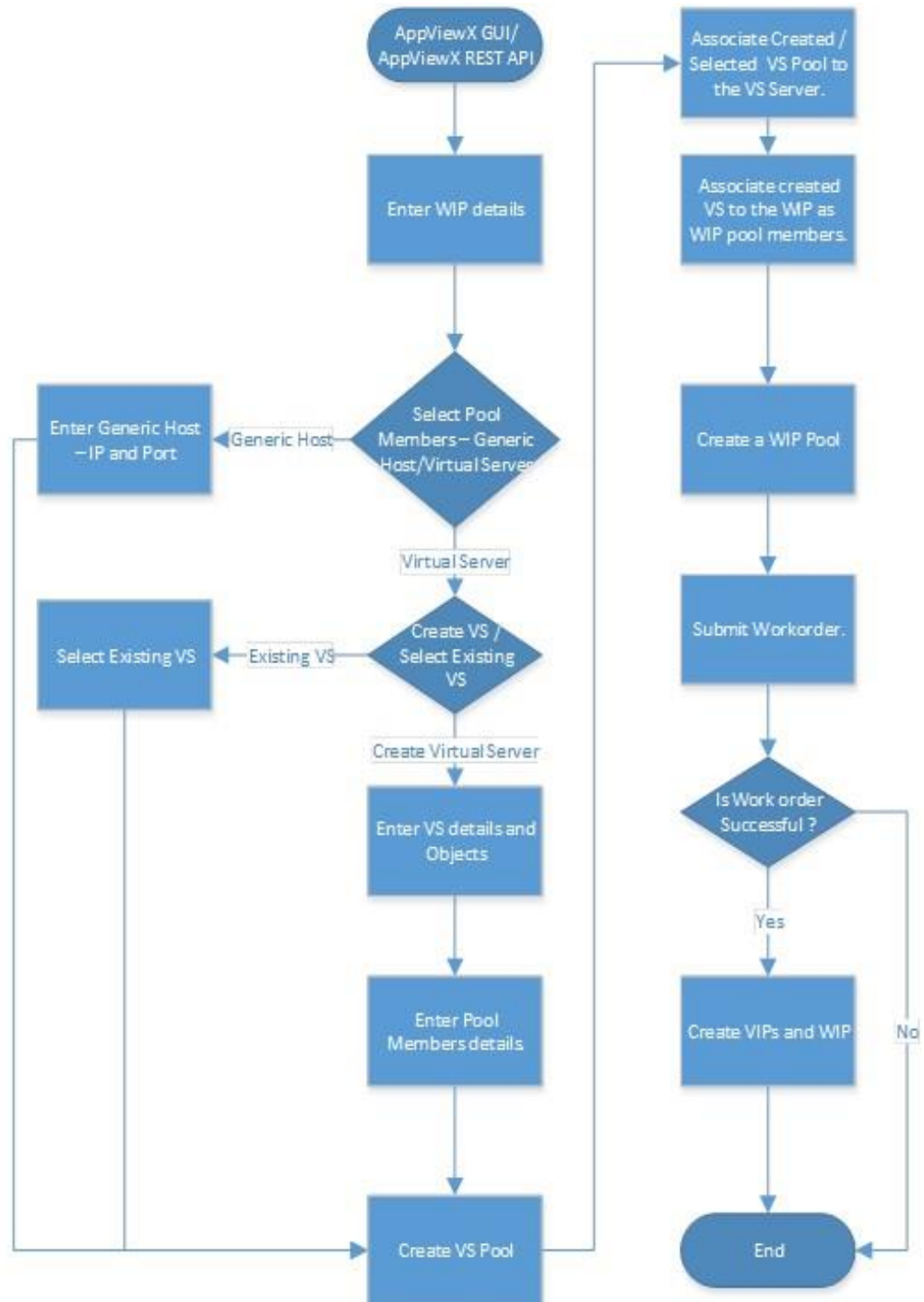
Figure 1: Work order Flow Diagram

Prerequisites

To run this automation template, ensure that the following pre-requisites are met:

- The ADC devices has been added in the AppViewX inventory with a Data center name.
- Each ADC device is a managed entity in AppViewX.
- The existing SNAT Pools and Traffic Groups had been configured in the F5 devices.

Compatible Software Versions

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

- AppViewX version11.4.5
- F5 (both LTM and GTM) – version 10.x, 11.x, and 12.x

Limitations

Not Applicable.

Log In to AppViewX

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

`http://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`/`admin`.

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

Import Templates and Helper Scripts

For details on how to import templates and helper scripts, refer to the respective section in chapter 5 of the Automate Application Provisioning User Guide.

Instructions to create a Wide IP

Note: For more details on how to add an ADC device, create, modify, and delete a virtual server, refer to the respective sections in chapter 5 of the Automate Application Provisioning User Guide.

To create a Wide IP with SNAT and Traffic Group, complete the following steps:

1. Click the ☰ (**Menu**) button.
2. Navigate to **Provisioning** > **Request**.
3. On the Request screen that opens, click the ⊞ (**Create**) button in the command bar.
4. From the Template name drop-down list, click the **Create a Wide IP with SNAT and Traffic Group** template.

   Note: If no template is available, this indicates that the user role does not have permission to the requesting template.
5. In the **Description** field, enter the provisioning request description. For example, creating Multiple Virtual server under a Wide IP.

6. In the **Wide IP Device** field, click the (**Retrieve field values**) button to retrieve the GTM devices present in the AppViewX inventory. Select the Wide IP device from the drop-down list.

7. In the **WIP Name** field, enter the name for the Wide IP.

8. (Optional) In the **Alias name** field, enter the alias name for the Wide IP.

9. In the **Wide IP Pool Name** field, click the (**Retrieve field values**) button to retrieve the relevant pool name (field values) present in the AppViewX inventory.

10. From the **Preferred**, **Alternate**, and **Fallback** drop-down fields, select one of the load balancing method for the Wide IP pool: **global-availability** or **round-robin**

11. From the **Wide IP Pool Member Type** drop-down list, select one of the following pool member for the Wide IP:
    - **Generic host**
    - **VIP**

12. If Generic host is selected as the Wide IP pool member, enter the following details:

    a. In the **Wide IP Data Center** field, click the (**Retrieve field values**) button to retrieve the data center of the GTM devices. Select the data center from the drop-down list.

    b. Enter the IP address and port details of the Generic Host in the respective fields.

13. If VIP is selected as the Wide IP pool member, enter the following details:

    a. In the **Wide IP Data Center** field, click the (**Retrieve field values**) button to retrieve the data center of the GTM devices. Select the data center from the drop-down list.

    b. From the **VIP selection** drop-down list, select one of the VIPs: **Use existing virtual** or **Create new virtual**

    c. If Use existing virtual option is selected, enter the following details:

        i. In the **GTM Server** field, click the (**Retrieve field values**) button to retrieve the existing GTM server from the selected device. Select the GTM server from the drop-down list.

        ii. In the **Select VIP** field, click the (**Retrieve field values**) button to retrieve the existing virtual server from the selected device. Select the virtual server from the drop-down list.

    d. If Create new virtual option is selected, enter the following details:

        i. In the **LTM Device** field, click the (**Retrieve field values**) button to retrieve the LTM devices present in the AppViewX inventory. Select an LTM device from the drop-down list.

        ii. Enter the name, IP address, port details and description for the virtual server in the respective fields.

        iii. Select one of the protocol for the virtual server: **TCP** or **UDP**

     iv. Enter the name of the pool member for the virtual server that you want to create.

     v. Enter the pool members in the following format in a separate line: IP address, Port number, and so on.

     vi. Depending on whether or not you want to use the existing monitors, click the **Yes** or **No** radio button. If you have selected 'Yes', then **Existing monitors field** appears. Click the (**Retrieve field values**) button to retrieve the existing monitors that are available in the device for selection.

     vii. Depending on whether or not you want to use the existing SNAT pool, click the **Yes** or **No** radio button. If you have selected 'Yes', then **Existing SNAT pool** field appears. Click the (**Retrieve field values**) button to retrieve the existing SNAT pool that are available in the device for selection.

     viii. Depending on whether or not you want to use the existing traffic group, click the **Yes** or **No** radio button. If you have selected 'Yes', then **Existing Traffic group** field appears. Click the (**Retrieve field values**) button to retrieve the existing traffic groups that are available in the device for selection.

14. Click the (**Add**) button. The Wide IP pool member details will be displayed in the collection grid.

   Note: You also have an option to edit, reset, and delete the details provided.

15. Click **Save draft** to save a draft of the template, which can be submitted later, or click **Submit** to submit the template immediately.