**This document provides overview on how to execute Linux patching jobs on ansible tower**

**Pre-Requisite: Access to Ansible Tower and Job Template Execution Rights.**

IIQ Roles: ANSIBLE\_TOWER\_USERS & ANSIBLE\_TOWER\_UNIX\_ADMINS

Source Code for contribution: <https://ghe.fyiblue.com/HCSC-Pilot/ansible-linux-patching>

**Tower URL :** <https://tower.fyiblue.com/>

**Step 1**: Select Appropriate workflow playbook. Following are the playbooks to be used.

1.linux-patching-workflow – server\_scan (Runs the Precheck script) playbook + patching steps  
2.linux-patching-server-reboot-workflow – Reboot server + server\_scan ( Runs postcheck script)

Explanation on what the playbook should be doing.

1. **linux-patching-workflow**:

* It will first execute linux-patching-server-scan playbook, that executes the provided script on individual host and saves the script out put on individual server at /var/logs/patchdir location.
* After successful execution, workflow will be running Linux patching job, that perform respective patching steps on Azure and ITC servers. Following are the changes this playbook will be doing.

1. Take backup of Cacerts - cp -p /etc/pki/ca-trust/extracted/java/cacerts /etc/pki/ca-trust/extracted/java/cacerts-2021xxxx
2. subscription-manager release --set=7Server
3. yum --disablerepo=\*\\*
4. For Azure - --enablerepo=rhel-\*\\* ,

For ITC - subscription-manager repos --enable=rhel-7-server-rh-common-rpms --enable=rhel-7-server-optional-rpms --enable=rhel-7-server-rhn-tools-rpms --enable=rhel-7-server-supplementary-rpms --enable=rhel-7-server-extras-rpms

1. --disablerepo=rhel-7-server-eus-supplementary-rpms only for AZURE servers.
2. update -y
3. **linux-patching-server-reboot-workflow:**

* It will first execute linux-server-reboot playbook, that reboots the given servers
* After completion of successful reboot it wil be executing linux-patching-server-scan playbook, that executes the provided script on individual host and saves the script out put on individual server at /var/logs/patchdir location.

How to search and select for playbook:

Click on template and search with workflow name, click on rocket Icon to launch the workflow.

Graphical user interface, text, application, email

Description automatically generated

**Step 2: How to select inventory and launch the workflow**

Select inventory based on what environment server resides in.

|  |  |  |
| --- | --- | --- |
| Server Environment/Subsciption | Asset Location | Inventory to be selected |
| Test | North Central | Azure Test - NorthCentralUS |
| Test | South Central | Azure Test - SouthCentralUS |
| Test / Azure Spoke | North Central | Azure Test - NorthCentralUS |
| Test / Azure Spoke | South Central | Azure Test - SouthCentralUS |
| Test / Azure Hub | North Central | Azure NonProd Hub - NorthCentralUS |
| Test / Azure Hub | South Central | Azure NonProd Hub - SouthCentralUS |
| Prod | North Central | Azure Prod - NorthCentralUS |
| Prod | South Central | Azure Prod - SouthCentralUS |
| Prod / Azure Spoke | North Central | Azure Prod - NorthCentralUS |
| Prod / Azure Spoke | South Central | Azure Prod - SouthCentralUS |
| Prod / Azure Hub | North Central | Azure Prod Hub - NorthCentralUS |
| Prod / Azure Hub | South Central | Azure Prod Hub - SouthCentralUS |

After selecting inventory, add a comma separated list of host short name on which the workflow should be executed as shown in following picture. Clicking on Next -> launch will launch the workflow.

Graphical user interface, application

Description automatically generated

After execution of workflow Clicking on details as show in following picture will take you to individual jobs and one can see the job output.

Graphical user interface, application

Description automatically generated

Following is how a successful job looks like.

Graphical user interface, text, application, chat or text message

Description automatically generated