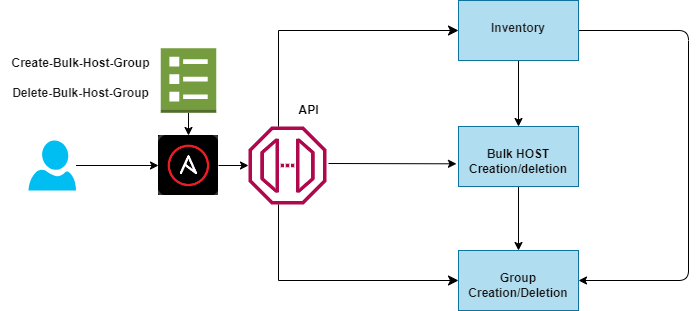
**Objective:**

* This automation is used to involves automating the process of adding/deleting the multiple hosts to an inventory and organizing them into appropriate groups.
* This automation will help to reduce the manual intervention of adding n number of managed nodes in the Ansible automation platform.
* As well as we can consider as one of the dynamic methods of maintain the managed nodes and group for the templates.
* This Playbook allows to interaction with AWX and Ansible Automation controller API for create the

bulk host and Group creation in the any inventory.

**Basic Flow Diagram of host/group creation and deletion:**



**REQUIREMENTS**

* The AWX.AWX collections MUST be installed for this collection to work. It is recommended they be invoked in the playbook in the following way.

---

- name: Playbook to configure ansible controller post installation

hosts: localhost

vars:

controller\_validate\_certs: false

collections:

- awx.awx

**Installing this collection**

* You can install the awx.awx collection with the Ansible Galaxy CLI:
* **#ansible-galaxy collection installs awx.awx**
* You can also include it in a `requirements.yml` file and install it with
* **#ansible-galaxy collection install -r requirements.yml`**
* If you need a specific version of the collection, you can specify like this: #version: 2.xx

---

collections:

- name: awx.awx

#

# version: 2.xxx

**Using this collection**

* The awx.awx collection must be invoked in the playbook for ansible to pick up the correct modules to use inside
* The following command will invoke the playbook with the awx collection.

#ansible-playbook **/playbook/create-host-group-AAP.yml --**extra-vars "@variable.yml"

#ansible-playbook **/playbook/delete-host-group-AAP.yml** --extra-vars "@variable.yml"

**Define following vars inside in the group\_vars/all/vars.yml file.**

---

controller\_validate\_certs: false.

controller\_username: "<username to login to the Ansible automation platform>"

#**ansible-vault encrypt\_string "<password string to encrypt" --name '<string name of the variable>'**

controller\_password: <Encrypted password>

controller\_hostname: "<Ansible automation platform hostname>"

**Below are ROLES created for this Automation:**

1. bulk-host-creation.
2. group-creation.
3. Host-deletion.
4. Group-deletion.

**Below is the Extra variable input for Create-host-group-AAP playbook:**

---

controller\_inventory\_name: "<Name of the inventory>"

controller\_host\_device\_name: " <name of the devices>"

controller\_groups\_name:

- group\_name: "<group name>"

preserve\_existing\_hosts: "<Default this value is **'false'** if you would like to preserve the existing hosts ‘**True’**>”

hosts: " <name of the devices by comma separated>"

**## Example for bulk host and group creation**

---

controller\_inventory\_name: "new inventory"

controller\_host\_device\_name: "sw01,

sw02,

sw03,

sw04,

sw05"

controller\_groups\_name:

- group\_name: "agv\_access"

preserve\_existing\_hosts: false

hosts: "sw01,

sw02,

sw03,

sw04,

sw05"

- group\_name: "agv\_access"

preserve\_existing\_hosts: false

hosts: "sw01,

sw02,

sw03,

sw04,

sw05"

**## Example for create only Bulk Host creation**

---

controller\_inventory\_name: "Demo\_Inventory"

controller\_host\_device\_name: "switch\_name\_1, switch\_name\_2"

controller\_groups\_name: []

---

controller\_inventory\_name: "Demo\_Inventory"

controller\_host\_device\_name: "switch\_name\_1,switch\_name\_2"

controller\_groups\_name:

- group\_name: "agv\_access"

hosts: "switch\_name\_1,switch\_name\_2"

**### Below is the Extra variable input for Delete-host-group-AAP playbook**

**---**

controller\_inventory\_name: "<Name of the inventory>"

controller\_host\_device\_name: "<Name of the device>"

controller\_groups\_name: "<Name of the group>"

**##Example:**

**---**

controller\_inventory\_name: "Demo inventory"

controller\_host\_device\_name: "switch\_name\_1,switch\_name\_2,switch\_name\_3"

controller\_groups\_name: "group\_name\_1,group\_name\_2"

controller\_state: "absent"