Ansible Tower/AWX Ansible Tower/controller is paid (AWX free community) is only for executing playbook not 1. Graphical tool to work with Ansible write a playbook 2. Easy based on Browser 3. Schedule your play's to run as specific time Run a Job: 1. Organization 4. Logs of plays run 2. Inventory and Group/Host Variables 5. RBAC A. Whole Inventory B. For a specific Group C. For a specific Host 3. Playbook Folder(Manual Copy/Git SCM) on Tower : Copy Playbooks from workstation to Tower Machine Change permission to chown -R awx:awx /var/lib/awx/projects/your_folder for Manual Copy (Git will have right perm automatically) 5. Project maps to your_playbook_folder (Project <>> one_folder) One to one Mapping 6. Credentials (Source Control/git. Device Credential) 7. Job Template (Run a playbook using inventory credentials and some other settings) 8. RBAC User (Role Based Access Control) Vars_Prompt is NOT compatible with tower, so SURVEY needs to be used 2. Change permission of module.py to executable via chmod u+x module.py **Configuration Node** Control Node/Workstation (Linux/Unix Only) Managed Hosts/Nodes yum install ansible-core ansible-navigator python -y ## ssh Plugin connection Static [static file with system name/IP] ansible_connection: ssh (ssh.py) ansible_port; 22 (yaml/ini) #ansible user: root (variable file) remote_user=olivia (ansible.cfg) Dynamic [Active Directory, LDAP, Satellite nsible_password: redhat (SSH_KEY) [--ask-pass for Ad-hoc] CMDB, Openstack, AWS, VMWare, VirtualBox] via python script ## Custom winrm Plugin connection ansible_connection: winrm (winrm.py) ansible_port: 5986 ansible_user: devops (remote_user) ansible_password: redhat (SSH_KEY) Ad-Hoc Command (Development/Testing) One time NOT reusable ansible hostname -m ios_interface -a 'option1=value1 option2=value2' ANSIBLE Configuration File: Default File: /etc/ansible/ansible.cfg User file(Home Dir): ~/.ansible.cfg Level 2 Project specific: ./ansible.cfg Python 2.7, 3.5, 3.6, 3.9 Define Env Variable: ANSIBLE_CONFIG=/tmp/ansible.cfg # Custom Network Plugin connection ansible_connection: network_cli/netconf network_cli.py // IOS/Arista Devices im play.yaml im plav.vaml n plav.vaml netconf.py // Juniper Devices Spy Agent name: Playbook Purpose name: Playbook Purpose name: Playbook Purpose NO James Bond nsible port: 22 (Depend) nosts: list_host hosts: list_host ansible user: student (remote user) tasks: ansible_password: student (SSH_KEY) name: Install httpd name: Install httpd name: Install httpd ansible_network_os: ios/junos/eos name: httpd name: httpd name: httpd state: latest state: latest state: latest name: Create user name: Create user name: Create user Module_name: Module name Module name Module_options: Module_options Module_options Container Image: Container Image1 cisco v2 ontainer Image3 postgresql collection cisco v1 cisco v2 python 3.6 collection mysal v1 posteresal python3.5 python 3.9 thread 100 ME thread 100 M thread 100 MB thread 100 MB thread 100 MB thread 100 ME Image 1 python 3.5 Image 3 Image 2

python 3.6

Execution Node

python 3.9