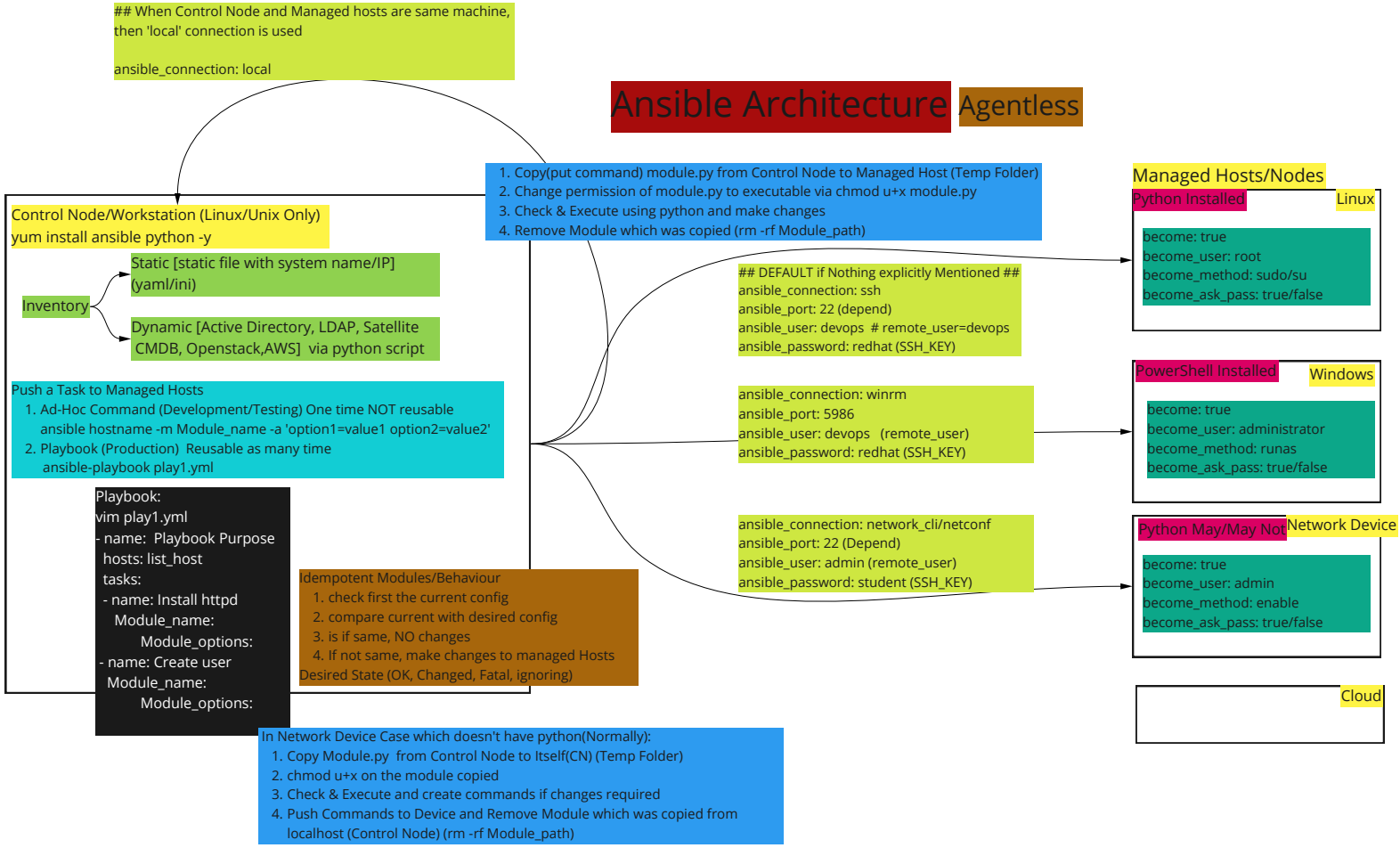
When Control Node and Managed hosts are same machine, then 'local' connection is used
ansible_connection: local
Ansible Architecture
Agentless
1. Copy(put command) module.py from Control Node to Managed Host (Temp Folder)
2. Change permission of module.py to executable via chmod u+x module.py
3. Check & Execute using python and make changes
4. Remove Module which was copied (rm -rf Module_path)
Managed Hosts/Nodes
Python Installed
Linux
become: true
become_user: root
become_method: sudo/su
become_ask_pass: true/false
Control Node/Workstation (Linux/Unix Only)
yum install ansible python -y
Inventory
Static [static file with system name/IP] (yaml/ini)
Dynamic [Active Directory, LDAP, Satellite CMDB, Openstack,AWS] via python script
DEFAULT if Nothing explicitly Mentioned
ansible_connection: ssh
ansible_port: 22 (depend)
ansible_user: devops # remote_user=devops
ansible_password: redhat (SSH_KEY)
Push a Task to Managed Hosts
1. Ad-Hoc Command (Development/Testing) One time NOT reusable
ansible hostname -m Module_name -a 'option1=value1 option2=value2'
2. Playbook (Production) Reusable as many time
ansible-playbook play1.yml
ansible_connection: winrm
ansible_port: 5986
ansible_user: devops (remote_user)
ansible_password: redhat (SSH_KEY)
PowerShell Installed
Windows
become: true
become_user: administrator
become_method: runas
become_ask_pass: true/false
Playbook:
vim play1.yml
- name: Playbook Purpose
hosts: list_host
tasks:
- name: Install httpd
Module_name:
Module_options:
- name: Create user
Module_name:
Module_options:
ansible_connection: network_cli/netconf
ansible_port: 22 (Depend)
ansible_user: admin (remote_user)
ansible_password: student (SSH_KEY)
Python May/May Not
Network Device
become: true
become_user: admin
become_method: enable
become_ask_pass: true/false
Idempotent Modules/Behaviour
1. check first the current config
2. compare current with desired config
3. is if same, NO changes
4. If not same, make changes to managed Hosts
Desired State (OK, Changed, Fatal, ignoring)
Cloud
In Network Device Case which doesn't have python(Normally):
1. Copy Module.py from Control Node to Itself(CN) (Temp Folder)
2. chmod u+x on the module copied
3. Check & Execute and create commands if changes required
4. Push Commands to Device and Remove Module which was copied from localhost (Control Node) (rm -rf Module_path)