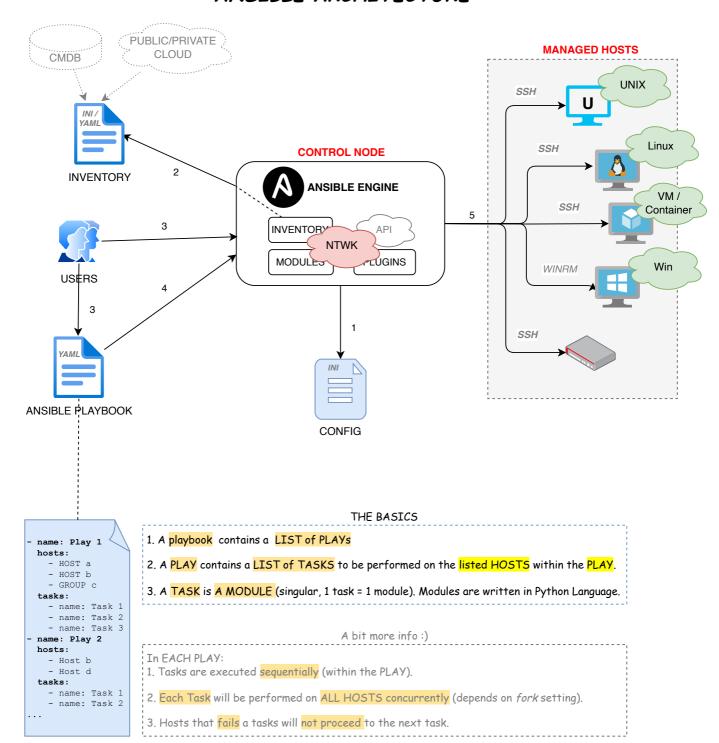
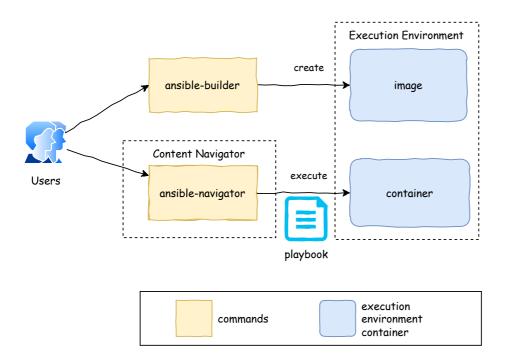
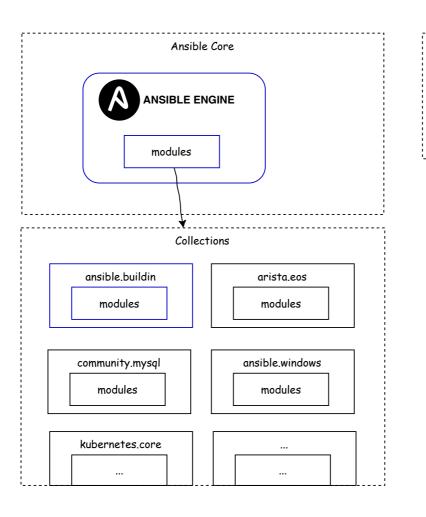
### ANSIBLE ARCHITECTURE



```
- hosts:
  - spines,!vyos
 - serverc
vars:
 abc: def
 msg: helo world
 tasks:
  - name: task1
    value1: 100
   ios_command:
    commands:
     - show clock
     - sh run | i host
  - name: task2
   ios_ping:
    dest: 192.168.0.1
  - name: task3
   debug:
msg: This is task3
name: play 1
- name: play 2
hosts: groupB
tasks:
- name: play 3
hosts: serverc
tasks:
```

```
name: My Play 1
hosts:
 - servera
  - serverb
vars:
 abc: def
tasks:
  - name: Task 1
    copy:
      src: ./files/{{ abc }}
      dest: /etc/myapp/abc.conf
      mode: 0640
  - name: Task 2
    MODULE2:
      OPT: VALUE
name: Second Play
hosts: serverc
tasks:
  - name: Task A
```



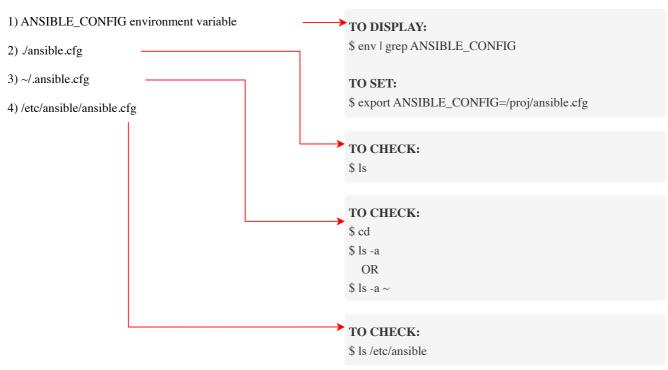


Ansible Controller

ANSIBLE TOWER(AWX)

# Ansible Configuration

#### Precedence



#### ansible.cfg

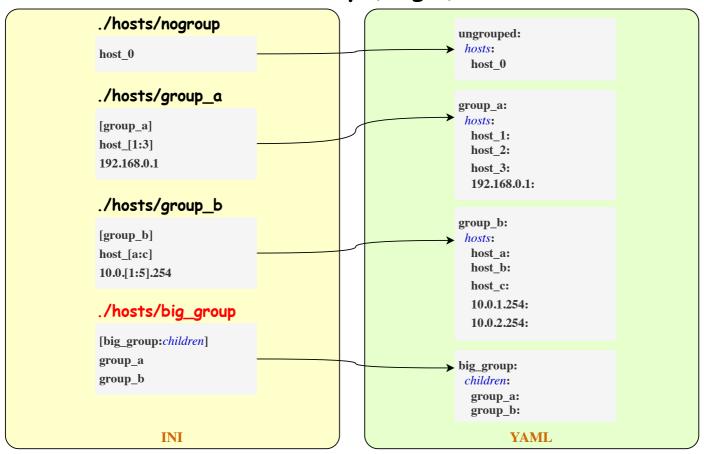
```
[defaults]
inventory
              = /hosts
                             # location of inventory. can be file/diretory
               = operator
                                # login user on managed hosts
remote user
                              # using passwordless login?
ask_pass
              = False
host key checking = False
                                  # managed hosts already in ~/.ssh/known hosts?
                              # Don't use gather facts for network devices
gathering
              = explicit
             = network cli
                               # Better to set using group vars
transport
[privilege_escalation]
                              # change to become_user by default?
become
              = False
become_user = admin
                                # Better to set using {group,host} vars
become method = enable
                                  # *nix=su,sudo; win=runas,psexec; ntdev=enable
become ask pass = False
                                  # need to provide password when switching user?
[ssh_connection]
             = -o ControlMaster=auto -o ControlPersist=60s
ssh_args
pipelining
              = True
                             # REQUIRES requiretty sudo option
```

## Inventory (single)

```
./myinventory
host 0
[group_a]
host_[1:3]
192.168.0.1
[group_b]
host_[a:c]
10.0.[1:2].254
[big_group:children]
group_a
groub_b
           INI
```

```
./myinventory
all:
 children:
      ungrouped:
       hosts:
        host_0:
      big_group:
       children:
        group_a:
         hosts:
          host 1:
          host_2:
          host_3:
          192.168.0.1:
        group b:
         hosts:
          host a:
          host b:
          host_c:
          10.0.1.254:
          10.0.2.254:
            YAML
```

# Inventory (single)



# Inventory (single)

```
host_0 value=10 msg="Hello World"

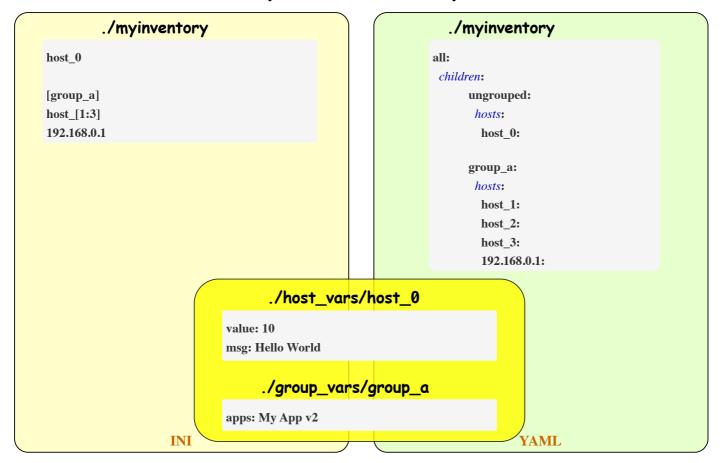
[group_a]
host_[1:3]
192.168.0.1

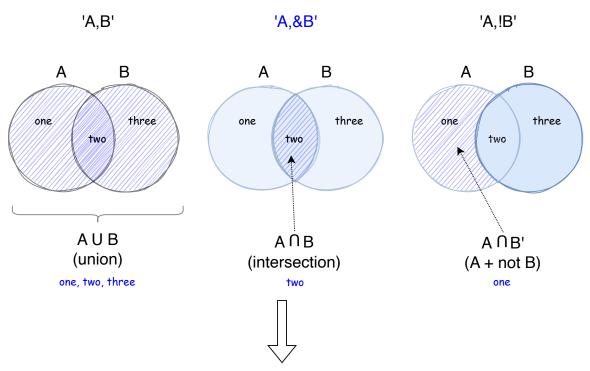
[group_a:vars]
apps = My App v2
```

INI

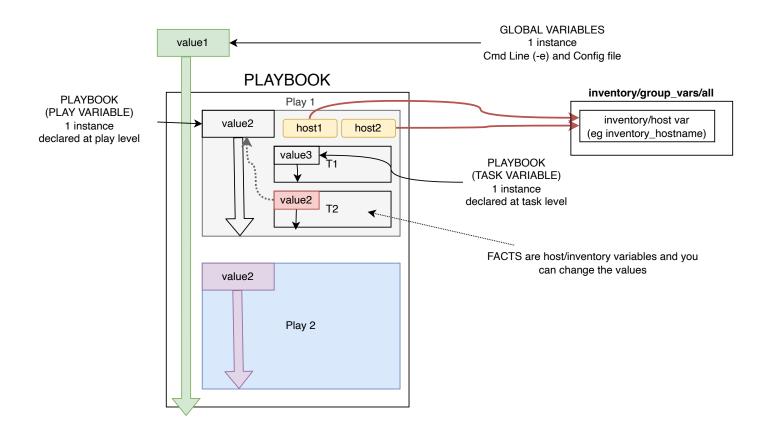
```
all:
 children:
      ungrouped:
       hosts:
        host_0:
         value: 10
         msg: Hello World
      group_a:
       hosts:
        host_1: {}
        host_2: {}
        host_3: {}
        192.168.0.1: {}
       vars:
        apps: My App v2
               YAML
```

## Inventory (vars - best practice)





ansible 'A,&B' -m vyos\_config -a 'lines="set system host-name {{ inventory\_hostname }}"'



### LAB ENVIRONMENT

