

# Ansible Dynamic Inventory Builder

Migrated from AnsibleCisco\_IOS-NXOS\_Builds on 03/26/2020

## Versions Migrated

- 1.2 (Dev)
- 1.3 (Dev and RC)

## Development

### Version 1.3

- Added Dynamic group split and add into inventory by OS
  - ios
  - nxos
  - iosxr
  - aci

### Version 1.2 and above, CSV Headers (with cell reference numbers used in templates)

Header	Definition
Hostname (0)	Alias or FQDN
HostIP (1)	IPv4/6 Address
OS (2)	Operating System (ios/ nxos/iosxr/aci)

### Example CSV

```
Hostname,HostIP,OS
P-BNAAE-FSW-701,10.160.2.71,nxos
TAM3-MDFA1-ASW4.mckesson.com,10.164.254.198,ios
lab-host-11,10.1.1.1,ios
lab-host-12,10.1.1.2,ios
lab-host-21,10.2.1.1,nxos
lab-host-22,10.2.1.2,nxos
```

### Excel View

Hostname	HostIP	OS
P-BNAAE-FSW-701	10.160.2.71	nxos
TAM3-MDFA1-ASW4.mckesson.com	10.164.254.198	ios
lab-host-11	10.1.1.1	ios

Hostname	HostIP	OS
lab-host-12	10.1.1.2	ios
lab-host-21	10.2.1.1	nxos
lab-host-22	10.2.1.2	nxos

## Dynamic Inventory Output

```
[all:vars]
ansible_python_interpreter=/usr/bin/python3
ansible_connection = local

[cisco:children]
dynamic_inventory
ios
nxos
iosxr
aci

[ios:children]
TAM3-MDFA1-ASW4.mckesson.com_DYN
lab-host-11_DYN
lab-host-12_DYN
#IOS_GRP

[nxos:children]
P-BNAAE-FSW-701_DYN
lab-host-21_DYN
lab-host-22_DYN
#NXOS_GRP

[iosxr:children]
#IOSXR_GRP

[aci:children]
aci_prod
aci_dev
#ACI_GRP

[aci_dev]
lab-apic ansible_host=10.165.2.214

[aci_prod]
dev-apic ansible_host=10.90.20.11

[infoblox:children]
infoblox_prod
infoblox_dev

[infoblox_prod]
```

```
[infoblox_dev]

[panos:children]
panos_prod
panos_dev

[panos_prod]

[panos_dev]

[world_net:children]
usa_net

[usa_net:children]
ga_net
tn_net

[ga_net]

[tn_net]

[dynamic_inventory:children]
P-BNAAE-FSW-701_DYN
TAM3-MDFA1-ASW4.mckesson.com_DYN
lab-host-11_DYN
lab-host-12_DYN
lab-host-21_DYN
lab-host-22_DYN
#DYNAMIC_GRP5

# == P-BNAAE-FSW-701 == #
# Added with test-1.3-03_josrosa-03-26-2020_0854
[P-BNAAE-FSW-701_DYN:vars]
ansible_network_os=nxos

[P-BNAAE-FSW-701_DYN]
P-BNAAE-FSW-701 ansible_host=10.160.2.71

# == TAM3-MDFA1-ASW4.mckesson.com == #
# Added with test-1.3-03_josrosa-03-26-2020_0854
[TAM3-MDFA1-ASW4.mckesson.com_DYN:vars]
ansible_network_os=ios

[TAM3-MDFA1-ASW4.mckesson.com_DYN]
TAM3-MDFA1-ASW4.mckesson.com ansible_host=10.164.254.198

# == lab-host-11 == #
# Added with test-1.3-03_josrosa-03-26-2020_0854
[lab-host-11_DYN:vars]
ansible_network_os=ios

[lab-host-11_DYN]
lab-host-11 ansible_host=10.1.1.1
```

```
# == lab-host-12 == #
# Added with test-1.3-03_josrosa-03-26-2020_0854
[lab-host-12_DYN:vars]
ansible_network_os=ios

[lab-host-12_DYN]
lab-host-12 ansible_host=10.1.1.2

# == lab-host-21 == #
# Added with test-1.3-03_josrosa-03-26-2020_0854
[lab-host-21_DYN:vars]
ansible_network_os=nxos

[lab-host-21_DYN]
lab-host-21 ansible_host=10.2.1.1

# == lab-host-22 == #
# Added with test-1.3-03_josrosa-03-26-2020_0854
[lab-host-22_DYN:vars]
ansible_network_os=nxos

[lab-host-22_DYN]
lab-host-22 ansible_host=10.2.1.2
#DYNAMIC_DEVICES
#EOF
```

## Test Release Download

[AnsibleDynInvBuild-1.3.tar.gz](#)

## Version 1.2

- Dynamic Inventory Builder (IOS and NXOS) - [cisco-inventory-builder.yml](#)
  - CSV Capable

### 1.2 CSV Headers (with cell reference numbers used in templates)

Header	Definition
Hostname (0)	Alias or FQDN
HostIP (1)	IPv4/6 Address
OS (2)	Operating System (ios/ nxos/iosxr/aci)

### Example CSV

```
Hostname,HostIP,OS
lab-host-11,10.1.1.1,ios
lab-host-12,10.1.1.2,ios
```

```
lab-host-21,10.2.1.1,nxos
lab-host-22,10.2.1.2,nxos
```

## Dynamic Inventory Output

```
[all:vars]
ansible_python_interpreter=/usr/bin/python3
ansible_connection = local

[cisco:children]
dynamic_inventory

[dynamic_inventory:children]
lab-host-11_DYN
lab-host-12_DYN
lab-host-21_DYN
lab-host-22_DYN
#DYNAMIC_GRPS

# == lab-host-11 == #
# Added with 03192020-DEVTEST_josrosa-03-19-2020_1736
[lab-host-11_DYN:vars]
ansible_network_os=ios

[lab-host-11_DYN]
lab-host-11 ansible_host=10.1.1.1

# == lab-host-12 == #
# Added with 03192020-DEVTEST_josrosa-03-19-2020_1736
[lab-host-12_DYN:vars]
ansible_network_os=ios

[lab-host-12_DYN]
lab-host-12 ansible_host=10.1.1.2

# == lab-host-21 == #
# Added with 03192020-DEVTEST_josrosa-03-19-2020_1736
[lab-host-21_DYN:vars]
ansible_network_os=nxos

[lab-host-21_DYN]
lab-host-21 ansible_host=10.2.1.1

# == lab-host-22 == #
# Added with 03192020-DEVTEST_josrosa-03-19-2020_1736
[lab-host-22_DYN:vars]
ansible_network_os=nxos

[lab-host-22_DYN]
lab-host-22 ansible_host=10.2.1.2
```

```
#DYNAMIC_DEVICES  
#EOF
```