

Ansible Network Resource Module

Quick reference

Installing Ansible Network Collections

Network Collections of note containing resource modules

Vendor	Network Platform	Collection	Galaxy	Automation Hub
Arista	EOS	arista.eos	red.ht/g_eos	red.ht/eos
Cisco	IOS / IOS-XE	cisco.ios	red.ht/g_ios	red.ht/ios
Cisco	NX-OS	cisco.nxos	red.ht/g_nxos	red.ht/nxos
Cisco	IOS-XR	cisco.iosxr	red.ht/g_iosxr	red.ht/iosxr
Cisco	ASA	cisco.asa	red.ht/g_asa	red.ht/asa
Juniper	Junos OS	junipernetworks.junos	red.ht/g_junos	red.ht/junos

Installing an Ansible Collection

ansible-galaxy collection install namespace.collection_name
ansible-galaxy collection install cisco.ios
ansible-galaxy collection install arista.eos

Collection Repositories

Name	Туре	URL
Ansible Galaxy	Community / Upstream	galaxy.ansible.com/
Automation Hub	Supported / Downstream	cloud.redhat.com/ansible/automation-hub

Ansible Network Resource Module Parameters

States

State	Modifies Device	Description
merged	yes	Ensures specified data model exists on remote network device.
replaced	yes	Ensures only specified data model exists on network device. Removes parameters that are not specified.

redhat.com 1

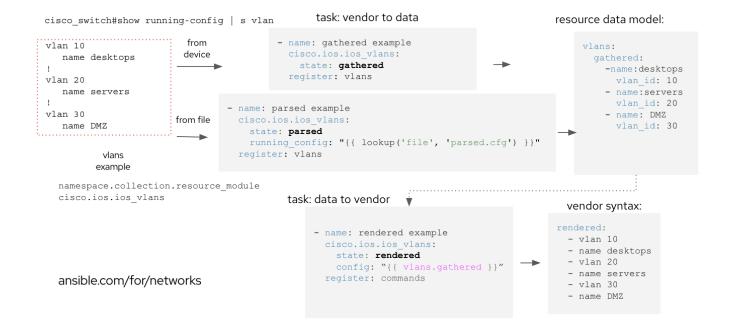


overridden	yes	Ensures only specified data model exists on network device, remove extraneous resources.
deleted	yes	Delete all specified resources.
gathered	no	Retrieves resource and transforms into structured data model. Same data collected as fact gathering.
rendered	no	Transforms specified resource data model to platform specific commands (e.g. Cisco IOS commands)
parsed	no	Transforms specified configuration data (off-box) and transforms into resource data model.

Return Values

Key	Returned	Description
after	when changed	The configuration as structured data after module completion
before	always	The configuration as structured data prior to module invocation
commands	always	The set of commands pushed to the remote device (vendor syntax)

Ansible Network Resource Module Cheatsheet



redhat.com 2



Ansible Network Resource Module States

Network Practical Example

Current Running Config:

vlan 10 name desktops ! vlan 30 name DMZ state suspend ! vlan 40 name durham

User-provided values: (<u>**not**</u> gathered)

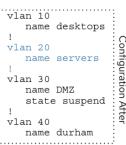
```
vlans:
- name: desktops
vlan_id: 10
- name: servers
vlan_id: 20
- name: DMZ
vlan_id: 30
```

YAML format

Example Merged

```
- name: merged example
  cisco.ios.ios_vlans:
    state: merged
    config: "{{ vlans }}"
```

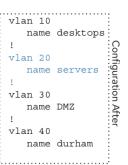
Adds vlan 20



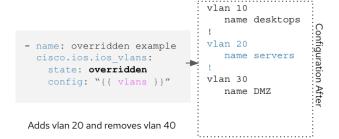
Example Replaced

```
- name: replaced example
cisco.ios.ios_vlans:
    state: replaced
    config: "{{ vlans }}"
```

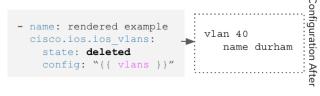
Adds vlan 20 and removes state suspend from vlan 30



Example Overridden



Example Deleted



Removes vlan 10, 20 and 30

redhat.com 3