# Ansible Workbook 5

A diagram of an automated automation lab

AI-generated content may be incorrect.

# Scenario

You have been requested by the head of networks to explore interoperability between vendors; the company is considering introducing Juniper Networks into there core and you need to ensure that this can be done.  
While your company is new to network automation the networking team want a demonstration of what Ansible can do and your manager wants to start introducing best practice.

## Task

junos1 has been introduced into your network and has Mgmt connection and a link between Manchester and London, NTP has been removed from the routers.  
Remove the variables for your host file and use group / host variable files to keep your main hosts short and concise.  
Write a single playbook that will configure the two ntp server addresses on both the Cisco and Juniper routers.  
Build a single playbook to validate the NTP configuration on both Cisco and Juniper

## Task Solution

**Host File**

[routers]

London ansible\_host=192.168.122.194

Manchester ansible\_host=192.168.122.132

Asia ansible\_host=192.168.122.226

America ansible\_host=192.168.122.217

[edge]

R1 ansible\_host=192.168.122.21

R2 ansible\_host=192.168.122.22

R3 ansible\_host=192.168.122.23

R4 ansible\_host=192.168.122.24

[junos]

Junos1 ansible\_host=192.168.122.101

**Playbooks**  
  
Show NTP

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- name: show ntp

hosts: edge, routers, junos

gather\_facts: no

tasks:

- name: display cisco ntp

cisco.ios.ios\_command:

commands:

- show ntp config

- show ntp associations

- show ntp packets

register: cisco\_ntp

when: ansible\_network\_os == "cisco.ios.ios"

- name: display cisco ntp details

debug:

msg: "{{ cisco\_ntp.stdout\_lines }}"

when: ansible\_network\_os == "cisco.ios.ios"

- name: display junos ntp

junipernetworks.junos.junos\_command:

commands:

- show ntp associations

- show ntp status

register: junos\_ntp

when: ansible\_network\_os == "junos"

- name: display junos ntp details

debug:

msg: "{{ junos\_ntp.stdout\_lines }}"

when: ansible\_network\_os == "junos"

Add NTP

- name: ntp test

hosts: junos

gather\_facts: no

tasks:

- name: add ntp Cisco

vars:

testservers:

- "192.168.122.8"

- "192.168.122.100"

cisco.ios.ios\_ntp\_global:

config:

peers:

- peer: "{{ item }}"

loop: "{{ testservers }}"

when: ansible\_network\_os == "cisco.ios.ios"

- name: add ntp junos

vars:

juniper\_testservers:

- "192.168.122.8"

- "192.168.122.100"

junipernetworks.junos.junos\_ntp\_global:

config:

peers:

- peer: "{{ item }}"

loop: "{{ juniper\_testservers }}"

when: ansible\_network\_os == "junos"