# Ansible Workbook 3

A diagram of a computer server

AI-generated content may be incorrect.

# Scenario

Your manager has requested that you setup add the routers for basic NTP, you have also been told that the application server (Ubuntu) itself has not been configured for NTP so while  
you are now a Network Automation Engineer your manager believes you should also take on sysadmin tasks ☹

## Task

Add the Ubuntu server and its variables into your current host file.  
Write a playbook that will configure the application server to install the NTP package and enable NTP server setting.  
Build a playbook to add NTP to your routers and point it to the newly configured NTP server.  
Create a playbook to verify your configurations.

## Task Solution

**Host File**

[routers]

London ansible\_host=192.168.47.194

Manchester ansible\_host=192.168.47.132

Asia ansible\_host=192.168.47.226

America ansible\_host=192.168.47.217

[routers:vars]

ansible\_user=YouTube

ansible\_ssh\_pass=YouTube1

ansible\_port=22

ansible\_connection=network\_cli

ansible\_network\_os=cisco.ios.ios

[edge]

R1 ansible\_host=192.168.47.21

R2 ansible\_host=192.168.47.22

R3 ansible\_host=192.168.47.23

R4 ansible\_host=192.168.47.24

[edge:vars]

ansible\_user=YouTube

ansible\_ssh\_pass=YouTube1

ansible\_port=22

ansible\_connection=network\_cli

ansible\_network\_os=cisco.ios.ios

[servers]

app-server ansible\_host=192.168.47.200

[servers:vars]

ansible\_user=sysadmin

ansible\_ssh\_password=sysadmin123

ansible\_become=yes

ansible\_become\_method=sudo

ansible\_become\_password=sysadmin123

**Playbooks**  
  
Server

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- name: NTP Server Setup

hosts: servers

become: yes

tasks:

- name: Install NTP server

apt:

name: chrony

state: present

update\_cache: yes

- name: Configure chrony as an NTP server

lineinfile:

path: /etc/chrony/chrony.conf

regexp: '^pool '

line: "# Commented by Ansible"

state: present

- name: Add local server configuration

lineinfile:

path: /etc/chrony/chrony.conf

line: "allow 192.168.47.0/24"

create: yes

- name: Restart the chrony service

systemd:

name: chrony

enabled: yes

state: restarted

- name: Allow NTP through the firewall

ufw:

rule: allow

port: 123

proto: udp

comment: "Allow NTP traffic"

Routers

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- name: configure NTP

hosts: edge,routers

gather\_facts: no

connection: network\_cli

tasks:

- name: add NTP server

cisco.ios.ios\_config:

lines:

- ntp server 192.168.47.200 prefer minpoll 4 maxpoll 4

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- name: Check NTP

hosts: edge,routers

gather\_facts: no

connection: network\_cli

tasks:

- name: Check routers for NTP

cisco.ios.ios\_command

lines:

- show ntp associations

- show ntp status

register: output

- name: display output of commands

debug:

msg: "{{ output.stdout\_lines }}"