Installing, Configuring, and Managing Ansible - Setup Guide

* Step 1: Install Ansible on RHEL/CentOS

sudo dnf install epel-release -y

sudo dnf install ansible -y

For older versions:

sudo yum install epel-release -y

sudo yum install ansible -y

* Step 2: Verify Installation

ansible --version

* Step 3: Configure the Ansible Inventory File

Default inventory file location:

/etc/ansible/hosts

Example:

[webservers]

192.168.1.10

192.168.1.11

[dbservers]

192.168.1.20

* Step 4: Enable SSH Access to Managed Nodes

Ensure passwordless SSH:

ssh-keygen

ssh-copy-id user@192.168.1.10

* Step 5: Test Ansible Connection

ansible all -m ping

* Step 6: Create Your First Playbook

Example: install_apache.yml

```yaml
---
- name: Install Apache on webservers
  hosts: webservers
  become: yes
  tasks:
    - name: Install httpd
      yum:
        name: httpd
        state: present

    - name: Start and enable httpd
      service:
        name: httpd
        state: started
        enabled: true
```

Run the playbook:

```
ansible-playbook install_apache.yml
```

* Useful Ansible Commands

List inventory:

```
ansible-inventory --list
```

Check syntax:

```
ansible-playbook install_apache.yml --syntax-check
```