



Step-by-Step: Install Nginx Using Ansible (Master & Worker — Ubuntu)

Step 1 — On Master Node: Install Ansible

```
sudo apt update
sudo apt install -y ansible
ansible --version
```

Step 2 — Create Inventory File

Create a file called `inventory.yaml` on the **master node**.

```
all:
  vars:
    ansible_become: true

  children:
    frontend:
      hosts:
        worker1:
          ansible_host: 13.203.198.50
          ansible_user: ubuntu
          ansible_ssh_common_args: '-o StrictHostKeyChecking=no'
```

✓ This defines one group `frontend` containing your worker node.

Step 3 — Test Connection

Run from the master node:

```
ansible -i inventory.yaml frontend -m ping
```

✓ Expected output:

```
worker1 | SUCCESS => {  
  "changed": false,  
  "ping": "pong"  
}
```

This confirms the master can reach the worker.

Step 4 — Create Playbook File

Create a file called `playbook.yaml` on the master node.

```
---  
- name: Install and start Nginx on worker node  
  hosts: frontend  
  become: yes  
  
  tasks:  
    - name: Update apt package index  
      apt:  
        update_cache: yes  
  
    - name: Install nginx  
      apt:  
        name: nginx  
        state: present  
  
    - name: Enable and start nginx service  
      service:  
        name: nginx  
        state: started  
        enabled: yes
```

Step 5 — Run the Playbook

Execute the playbook:

```
ansible-playbook -i inventory.yaml playbook.yaml
```

✓ Expected output (example):

```
TASK [Update apt package index] ***
changed: [worker1]

TASK [Install nginx] ***
changed: [worker1]

TASK [Enable and start nginx service] ***
changed: [worker1]
```

Step 6 — Verify Installation

check via browser:

```
http://13.203.198.50
```

You'll see the [default Nginx welcome page](#).

Summary

Step	Action	Command
1	Install Ansible on master	<code>sudo apt install ansible -y</code>
2	Create inventory	<code>nano inventory.yaml</code>
3	Test connection	<code>ansible -i inventory.yaml frontend -m ping</code>
4	Create playbook	<code>nano playbook.yaml</code>
5	Run playbook	<code>ansible-playbook -i inventory.yaml playbook.yaml</code>
6	Verify Nginx	<code>curl http://<worker-ip></code>