Ansible Master-Slave Setup

Environment

- Master (Control Node): Ubuntu (example IP: 13.203.217.178)
- Managed Node (Slave): Ubuntu (Public IP: 43.204.109.249)
- User: ubuntu (default on Ubuntu EC2)

✓ Step-by-Step Setup

1. Install Ansible on the Master Node

sudo apt update

sudo apt install ansible -y

Verify installation:

ansible --version

2. Generate SSH Key (on Master)

ssh-keygen

• Press Enter for all prompts to accept defaults.

3. Copy SSH Key to Managed Node

ssh-copy-id ubuntu@43.204.109.249

- If key already exists: Use -f to force:
- ssh-copy-id -f ubuntu@43.204.109.249
- Test SSH connection:
- ssh ubuntu@43.204.109.249

If it logs in without a password → success ✓

4. Create Ansible Inventory File

If the /etc/ansible directory does not exist:

sudo mkdir -p /etc/ansible

Then create the inventory file:

sudo nano /etc/ansible/hosts

Paste this into the file:

[webservers]

43.204.109.249 ansible_user=ubuntu

To save and exit nano:

- $Ctrl + O \rightarrow Save$
- Enter → Confirm filename
- $Ctrl + X \rightarrow Exit$

Verify contents:

cat /etc/ansible/hosts

5. Test Ansible Connection

```
ansible all -m ping
```

Expected output:

```
43.204.109.249 | SUCCESS => {
```

```
"changed": false,
"ping": "pong"
}
```

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🗱 Final Result

• Ansible master node can now connect to the managed node using SSH.

- Inventory file is set up.
- Connection is tested and successful.