**Experiment No. 10 — Installation of Ansible on AWS Instance**

**Aim:**

To install Ansible on top of AWS instance, configure SSH access between Ansible master/slave, set up Ansible host, and test the connection.

**⚙️ Steps to Perform:**

**STEP 1: Connect AWS Instances**

* Launch **two AWS EC2 instances** (Ubuntu-based) — one as **Ansible Master** and another as **Ansible Slave**.

**STEP 2: Connect to Instances**

* Open terminal or AWS console.
* Connect to **Ansible Master:**
* ssh -i key.pem ubuntu@<master-public-ip>
* Connect to **Ansible Slave:**
* ssh -i key.pem ubuntu@<slave-public-ip>

**STEP 3: Test Network Connection**

* From **Master → Slave:**
* ping <slave-private-ip>
* From **Slave → Master:**
* ping <master-private-ip>

**STEP 4: Install Ansible**

**On Ansible Master:**

sudo apt update -y

sudo apt-add-repository ppa:ansible/ansible

sudo apt update -y

sudo apt-get install ansible -y

ansible --version

**On Ansible Slave:**

sudo apt update -y

**STEP 5: Configure Inventory (Hosts)**

* Edit Ansible hosts file:
* sudo nano /etc/ansible/hosts
* Add slave’s IP address:
* [clients]
* client\_1 ansible\_host=<slave-private-ip> ansible\_user=ubuntu
* Save and exit.

**STEP 6: Setup SSH Key Authentication**

**On Master:**

ssh-keygen -t rsa

cd ~/.ssh

cat id\_rsa.pub

Copy this key.

**On Slave:**

cd ~/.ssh

nano authorized\_keys

# Paste the master's public key here

sudo nano /etc/ssh/sshd\_config

# Ensure PubkeyAuthentication is yes

Save and restart SSH if needed.

**STEP 7: Test Ansible Connection**

**On Master:**

ansible -m ping all

ansible client\_1 -m setup

**STEP 8: Install and Remove Packages Remotely**

**Install a package (e.g., git):**

ansible client\_1 -m apt -a "name=git state=present" --become

**Uninstall a package (e.g., nano):**

ansible client\_1 -m apt -a "name=nano state=absent" --become

**Reinstall package (if needed):**

ansible client\_1 -m apt -a "name=nano state=present" --become