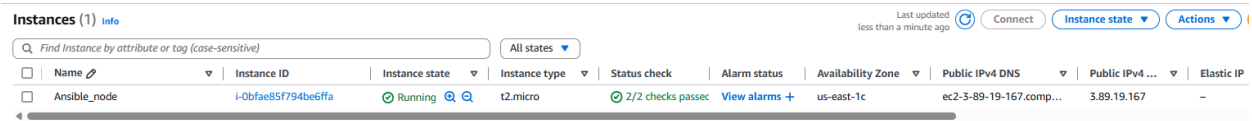


Create Three VMs on AWS (1 Ubuntu, 1 CentOS, 1 Windows). Using ansible

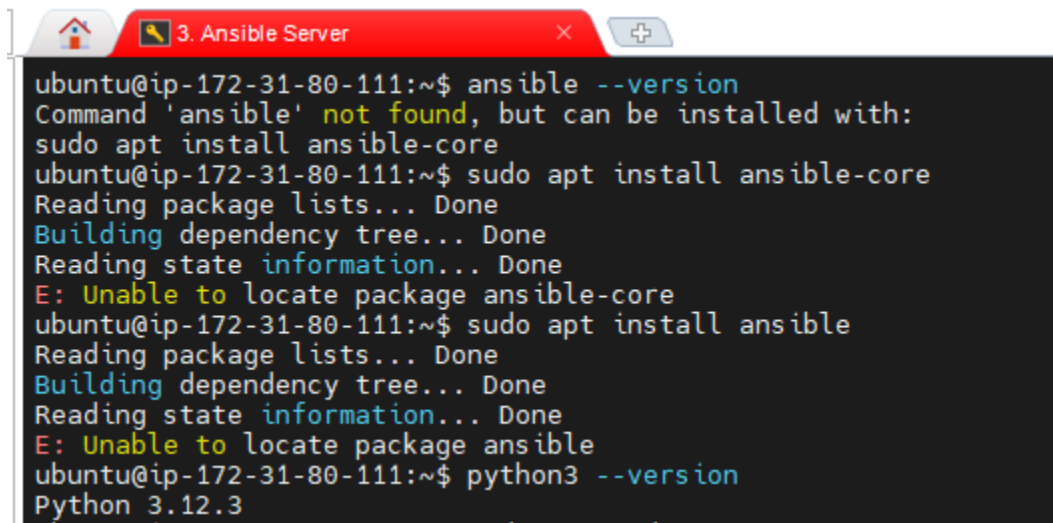
Manually create an Ansible node first on AWS.



The screenshot shows the AWS Management Console 'Instances' page. A single instance named 'Ansible_node' is listed with the following details:

Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public IPv4 DNS	Public IPv4 ...	Elastic IP
Ansible_node	i-0bfae85f794be6ffa	Running	t2.micro	2/2 checks passed	View alarms	us-east-1c	ec2-3-89-19-167.comp...	3.89.19.167	-

Installed Ansible, Python3 and Boto on the Ansible (Ubuntu) EC2 instance.



```
ubuntu@ip-172-31-80-111:~$ ansible --version
Command 'ansible' not found, but can be installed with:
sudo apt install ansible-core
ubuntu@ip-172-31-80-111:~$ sudo apt install ansible-core
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
E: Unable to locate package ansible-core
ubuntu@ip-172-31-80-111:~$ sudo apt install ansible
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
E: Unable to locate package ansible
ubuntu@ip-172-31-80-111:~$ python3 --version
Python 3.12.3
```

```
3. Ansible Server
ubuntu@ip-172-31-80-111:~$ ansible --version
ansible [core 2.16.3]
  config file = None
  configured module search path = ['/home/ubuntu/.ansible/plugins/modules', '/usr/share/ansible/plugins/modules']
  ansible python module location = /usr/lib/python3/dist-packages/ansible
  ansible collection location = /home/ubuntu/.ansible/collections:/usr/share/ansible/collections
  executable location = /usr/bin/ansible
  python version = 3.12.3 (main, Feb  4 2025, 14:48:35) [GCC 13.3.0] (/usr/bin/python3)
  jinja version = 3.1.2
  libyaml = True
ubuntu@ip-172-31-80-111:~$ ansible-galaxy collection install amazon.aws
Starting galaxy collection install process
Nothing to do. All requested collections are already installed. If you want to reinstall them, consider using
'--force'.
ubuntu@ip-172-31-80-111:~$ ansible-galaxy collection list

# /usr/lib/python3/dist-packages/ansible_collections
Collection                                     Version
-----
amazon.aws                                   7.2.0
ansible.netcommon                           5.3.0
ansible.posix                               1.5.4
ansible.utils                               2.12.0
ansible.windows                             2.2.0
arista.eos                                  6.2.2
awx.awx                                     23.6.0
azure.azcollection                          1.19.0
check_point.mgmt                            5.2.2
chocolatey.chocolatey                      1.5.1
cisco.aci                                   2.8.0
cisco.asa                                    4.0.3
cisco.dnac                                  6.10.2
cisco.intersight                           2.0.7
cisco.ios                                    5.3.0
cisco.iosxr                                 6.1.1
cisco.ise                                    2.7.0
cisco.meraki                                2.17.2
cisco.mso                                    2.5.0
cisco.nxos                                   5.3.0
cisco.ucs                                    1.10.0
cloud.common                                2.1.4
cloudscale_ch.cloud                         2.3.1
community.aws                               7.1.0
community.azure                             2.0.0
community.ciscosmb                          1.0.7
community.crypto                            2.17.1
community.digitalocean                      1.26.0
community.dns                               2.8.0
community.docker                            3.7.0
community.general                           8.3.0
community.grafana                            1.7.0
community.hashi_vault                       6.1.0
community.hrobot                             1.9.0
community.library_inventory_filtering_v1    1.0.0
community.libvirt                            1.3.0
community.mongodb                           1.6.3
community.mysql                              3.8.0
```

```
3. Ansible Server
ubuntu@ip-172-31-80-111:~$ pip list | grep boto
boto3              1.34.46
botocore            1.34.46
ubuntu@ip-172-31-80-111:~$ ansible --version
ansible [core 2.16.3]
  config file = None
  configured module search path = ['/home/ubuntu/.ansible/plugins/modules', '/usr/share/ansible/plugins/modules']
  ansible python module location = /usr/lib/python3/dist-packages/ansible
  ansible collection location = /home/ubuntu/.ansible/collections:/usr/share/ansible/collections
  executable location = /usr/bin/ansible
  python version = 3.12.3 (main, Feb  4 2025, 14:48:35) [GCC 13.3.0] (/usr/bin/python3)
  jinja version = 3.1.2
  libyaml = True
ubuntu@ip-172-31-80-111:~$
```

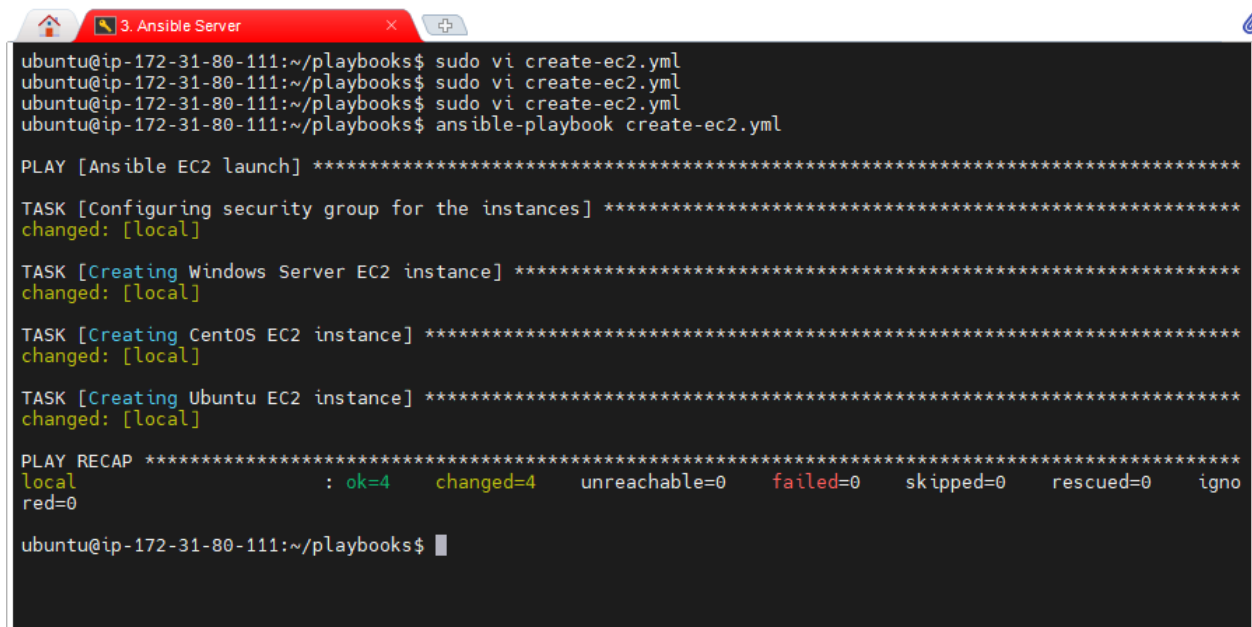
Creating the EC2 Instances.

The yaml file: create-ec2.yml

To execute this playbook and create the instances:

1. Save the playbook as `create-ec2.yml`.
2. Run it using the following command:

```
ansible-playbook create-ec2.yml
```



```
ubuntu@ip-172-31-80-111:~/playbooks$ sudo vi create-ec2.yml
ubuntu@ip-172-31-80-111:~/playbooks$ sudo vi create-ec2.yml
ubuntu@ip-172-31-80-111:~/playbooks$ sudo vi create-ec2.yml
ubuntu@ip-172-31-80-111:~/playbooks$ ansible-playbook create-ec2.yml

PLAY [Ansible EC2 launch] *****

TASK [Configuring security group for the instances] *****
changed: [local]

TASK [Creating Windows Server EC2 instance] *****
changed: [local]

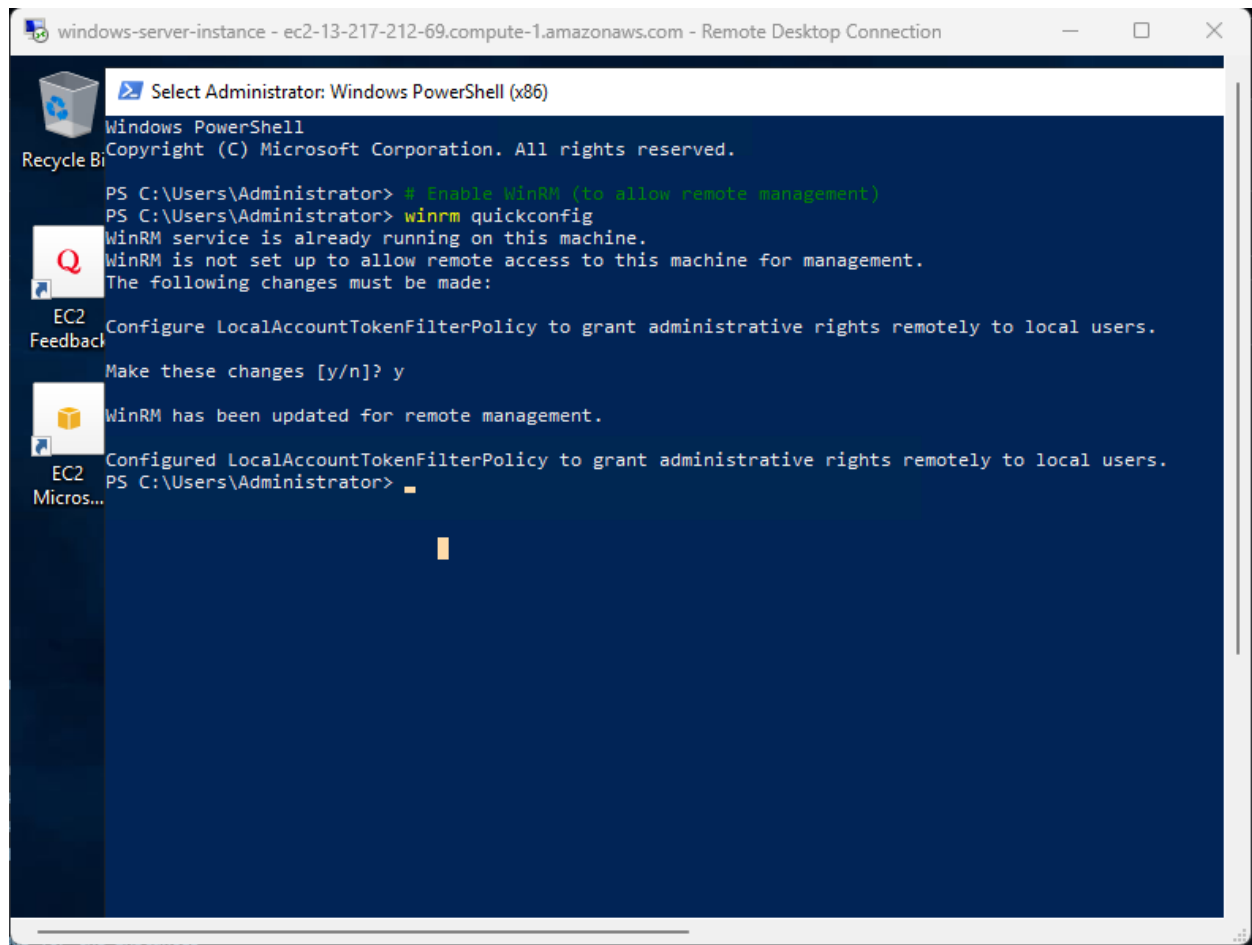
TASK [Creating CentOS EC2 instance] *****
changed: [local]

TASK [Creating Ubuntu EC2 instance] *****
changed: [local]

PLAY RECAP *****
local                : ok=4    changed=4    unreachable=0    failed=0    skipped=0    rescued=0    ignore=0

ubuntu@ip-172-31-80-111:~/playbooks$
```

Instances (4) <small>Info</small>									
<input type="text" value="Find Instance by attribute or tag (case-sensitive)"/>				All states ▾		Last updated less than a minute ago 🔄 Connect Instance state ▾ Action			
<input type="checkbox"/>	Name 🔗	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public IPv4 DNS	Public IPv4 ...
<input type="checkbox"/>	Ansible_node	i-0bfae85f794be6ffa	Running 🔍 🔍	t2.micro	2/2 checks passed	View alarms +	us-east-1c	ec2-3-89-19-167.comp...	3.89.19.167
<input type="checkbox"/>	centos-instance	i-00557c9678b74abab	Running 🔍 🔍	t2.small	2/2 checks passed	View alarms +	us-east-1a	ec2-18-208-227-247.co...	18.208.227.247
<input type="checkbox"/>	ubuntu-instance	i-01a1d07b107bfc0	Running 🔍 🔍	t2.small	2/2 checks passed	View alarms +	us-east-1a	ec2-3-88-65-135.comp...	3.88.65.135
<input type="checkbox"/>	windows-server-instance	i-0b80f7c85bb33e051	Running 🔍 🔍	t2.small	2/2 checks passed	View alarms +	us-east-1a	ec2-13-217-212-69.co...	13.217.212.69



Use Ansible to create 5 users on the Windows server

