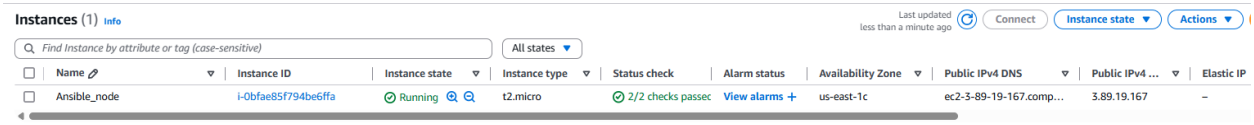
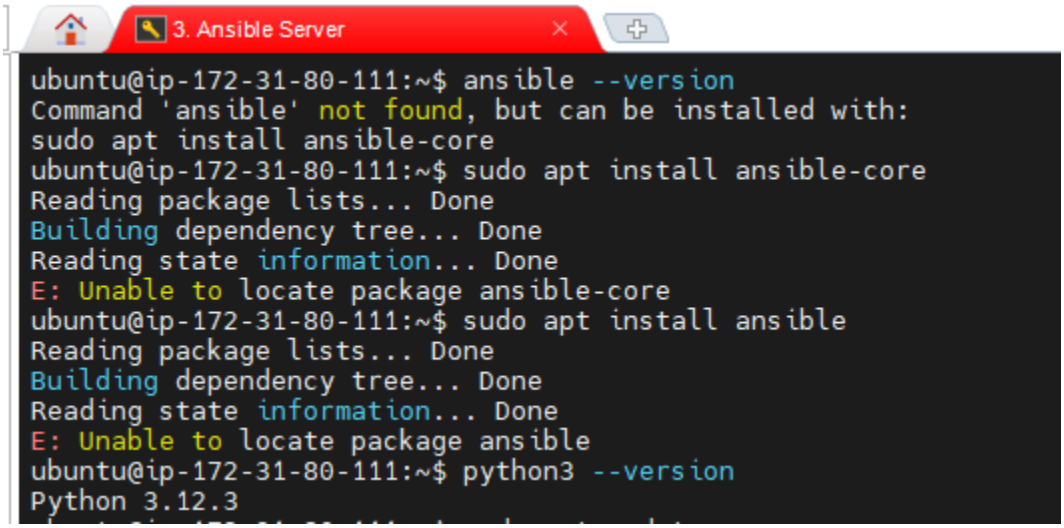
Create Three VMs on AWS (1 Ubuntu, 1 CentOS, 1 Windows). Using ansible

Manually create an Ansible node first on AWS.



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



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/modul
es']
  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/modul
es']
  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:~$
```

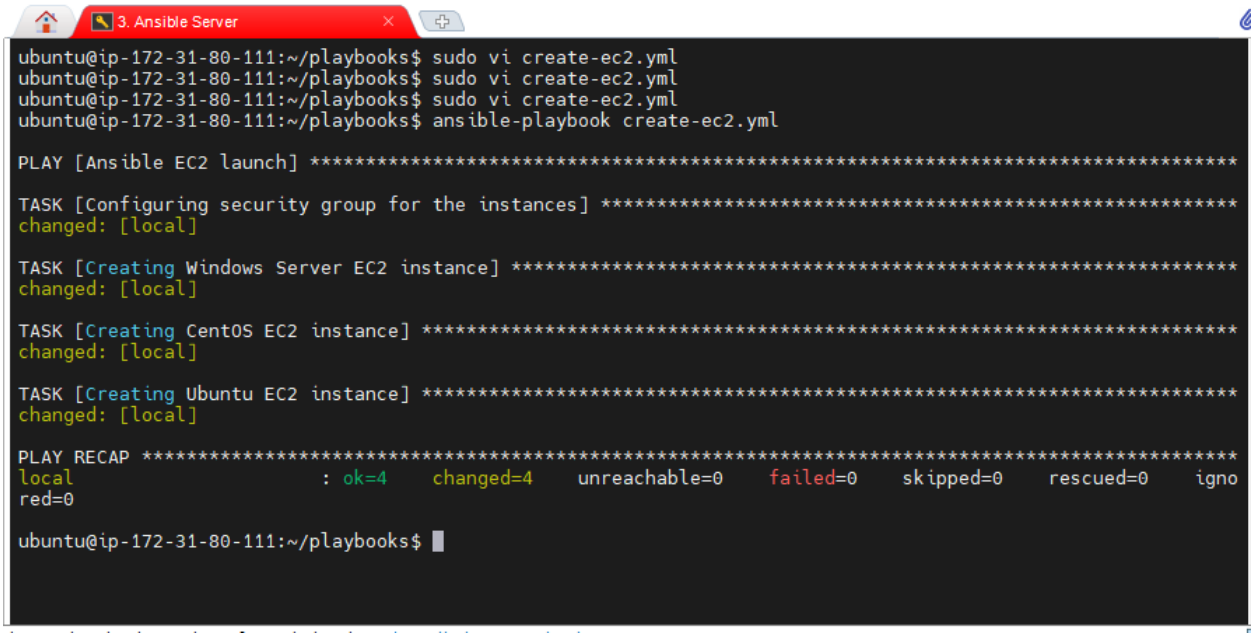
Creating the EC2 Instances.

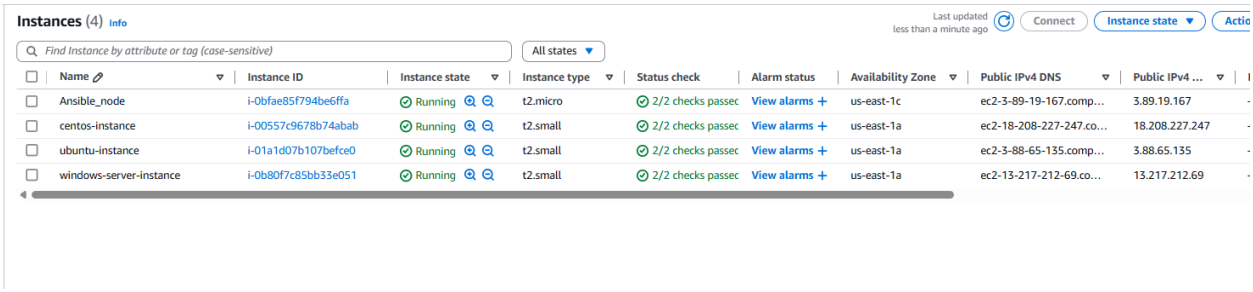
The yaml file: create-ec2.yml

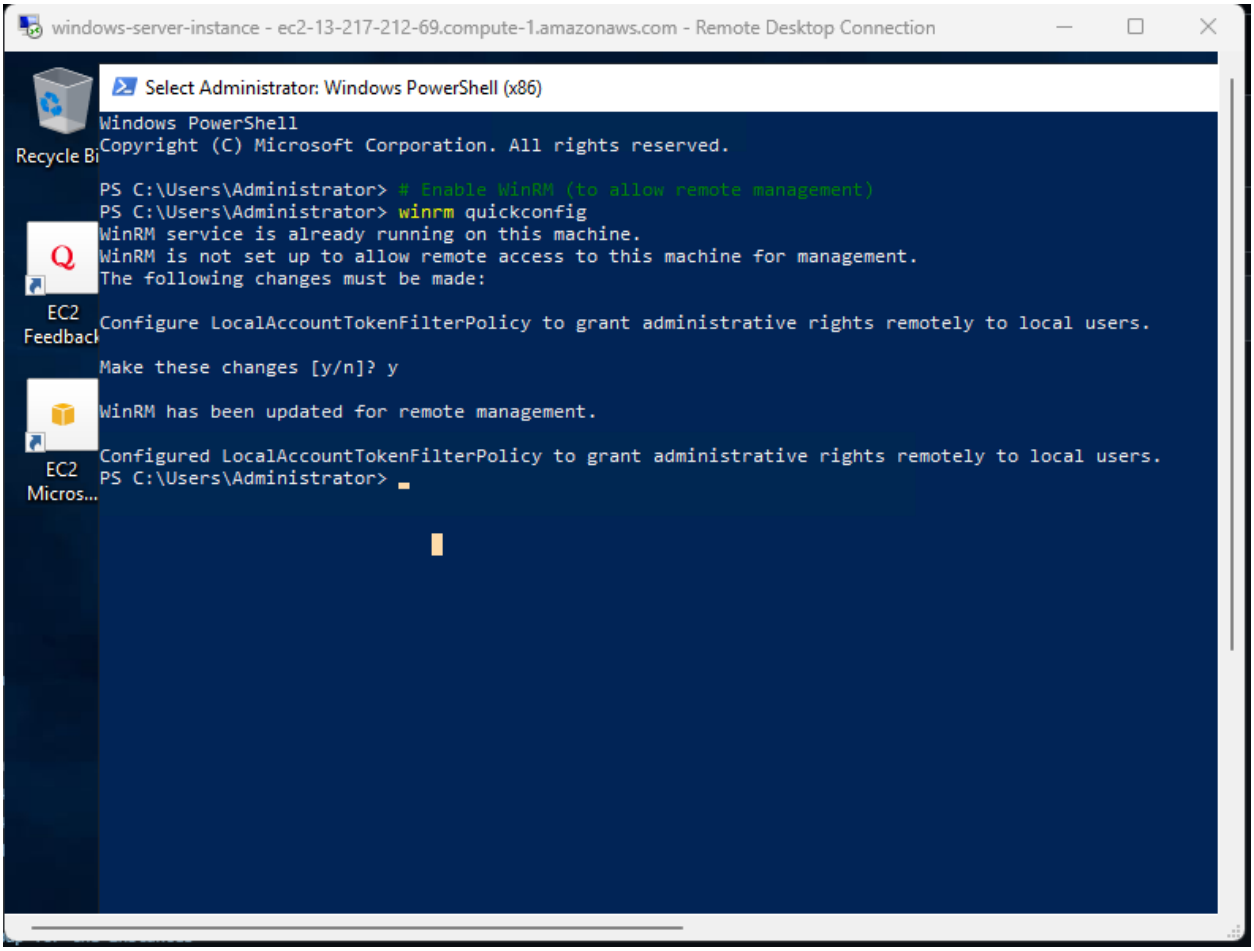
To execute this playbook and create the instances:

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

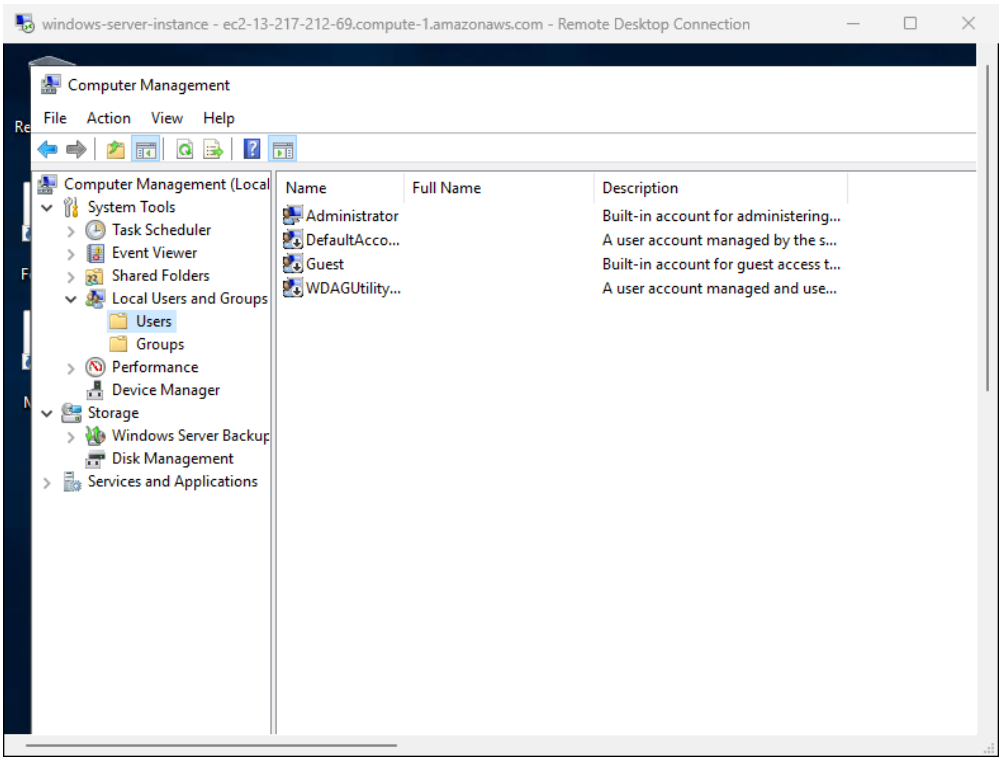
   ansible-playbook create-ec2.yml







Use Ansible to create 5 users on the Windows server


windows-server-instance - ec2-13-217-212-69.compute-1.amazonaws.com - Remote Desktop Connection
Computer Management
File Action View Help
Computer Management (Local
System Tools
Task Scheduler
Event Viewer
Shared Folders
Local Users and Groups
Users
Groups
Performance
Device Manager
Storage
Windows Server Backup
Disk Management
Services and Applications
Name
Full Name
Description
Administrator
Built-in account for administering...
DefaultAcco...
A user account managed by the s...
Guest
Built-in account for guest access t...
WDAGUtility...
A user account managed and use...