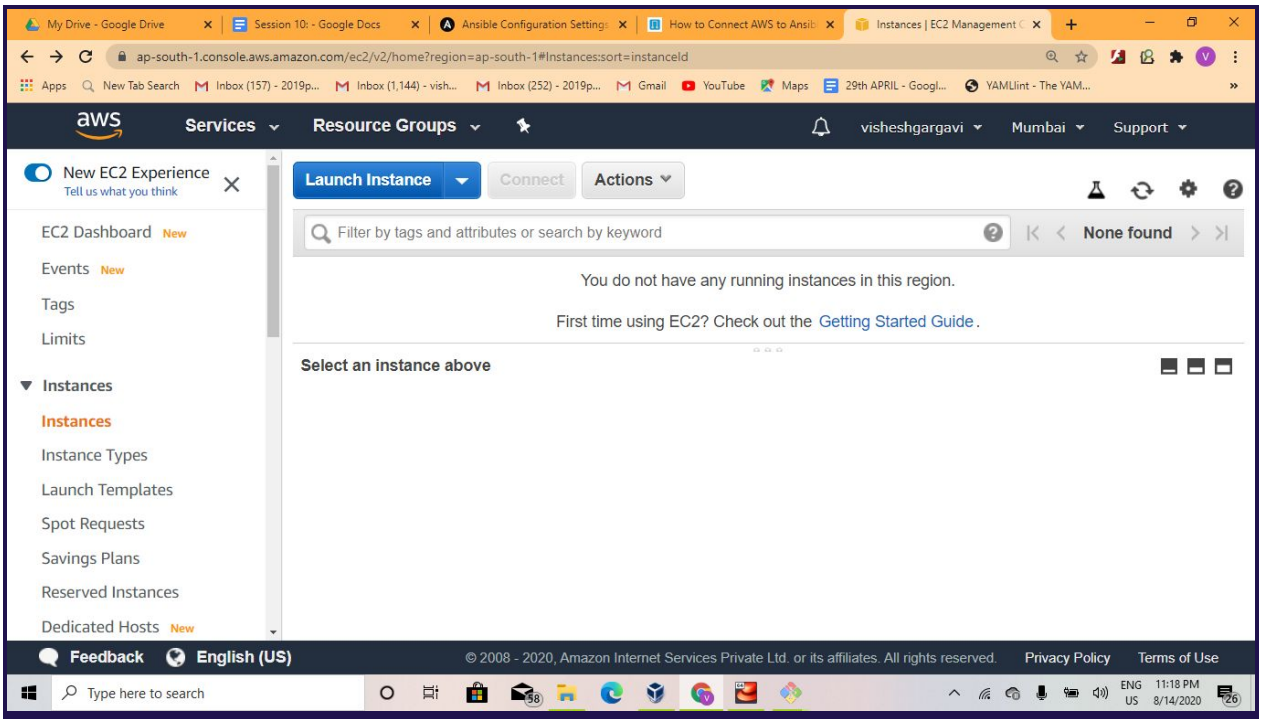
TASK 2:

HOW TO CONNECT AWS TO ANSIBLE?

Step 1: Creating an AWS Account

In this article, we will see how to launch an Amazon Web Services (AWS) Elastic Compute Cloud (EC-2) instance and manage it using Ansible. The first here is to create an AWS account. Do not worry, it has 12 months of free usage for some instances. Luckily, the process that we are going to follow today will ensure that nothing gets charged to your Debit Card.

Step 2: Launching an AWS Instance


My Drive - Google Drive
Session 10: - Google Docs
Ansible Configuration Setting
How to Connect AWS to Ansib
Instances | EC2 Management
ap-south-1.console.aws.amazon.com/ec2/v2/home?region=ap-south-1#Instances:sort=instanceId
Apps
New Tab Search
Inbox (157) - 2019p...
Inbox (1,144) - vish...
Inbox (252) - 2019p...
Gmail
YouTube
Maps
29th APRIL - Googl...
YAMLlint - The YAM...
aws
Services
Resource Groups
visheshgargavi
Mumbai
Support
New EC2 Experience
Tell us what you think
EC2 Dashboard New
Events New
Tags
Limits
Instances
Instances
Instance Types
Launch Templates
Spot Requests
Savings Plans
Reserved Instances
Dedicated Hosts New
Launch Instance
Connect
Actions
Filter by tags and attributes or search by keyword
None found
You do not have any running instances in this region.
First time using EC2? Check out the Getting Started Guide.
Select an instance above
Feedback
English (US)
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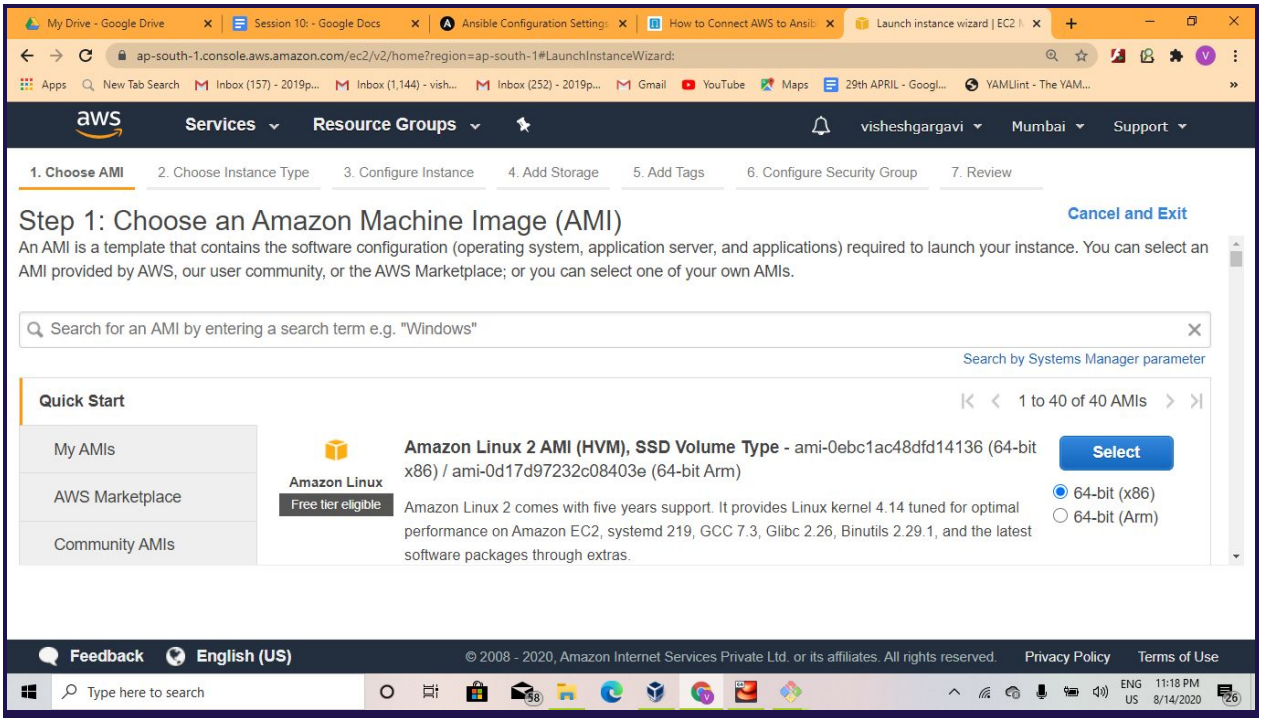
ENG US
11:18 PM
8/14/2020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Ansible Configuration Setting
How to Connect AWS to Ansib
Launch instance wizard | EC2
ap-south-1.console.aws.amazon.com/ec2/v2/home?region=ap-south-1#LaunchInstanceWizard:
aws
Services
Resource Groups
visheshgargavi
Mumbai
Support
1. Choose AMI
2. Choose Instance Type
3. Configure Instance
4. Add Storage
5. Add Tags
6. Configure Security Group
7. Review
Step 1: Choose an Amazon Machine Image (AMI)
Cancel and Exit
An AMI is a template that contains the software configuration (operating system, application server, and applications) required to launch your instance. You can select an AMI provided by AWS, our user community, or the AWS Marketplace; or you can select one of your own AMIs.
Search for an AMI by entering a search term e.g. "Windows"
Search by Systems Manager parameter
Quick Start
1 to 40 of 40 AMIs
My AMIs
AWS Marketplace
Community AMIs
Amazon Linux
Free tier eligible
Amazon Linux 2 AMI (HVM), SSD Volume Type - ami-0ebc1ac48dfd14136 (64-bit x86) / ami-0d17d97232c08403e (64-bit Arm)
Amazon Linux 2 comes with five years support. It provides Linux kernel 4.14 tuned for optimal performance on Amazon EC2, systemd 219, GCC 7.3, Glibc 2.26, Binutils 2.29.1, and the latest software packages through extras.
Select
64-bit (x86)
64-bit (Arm)
Feedback
English (US)
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ENG US
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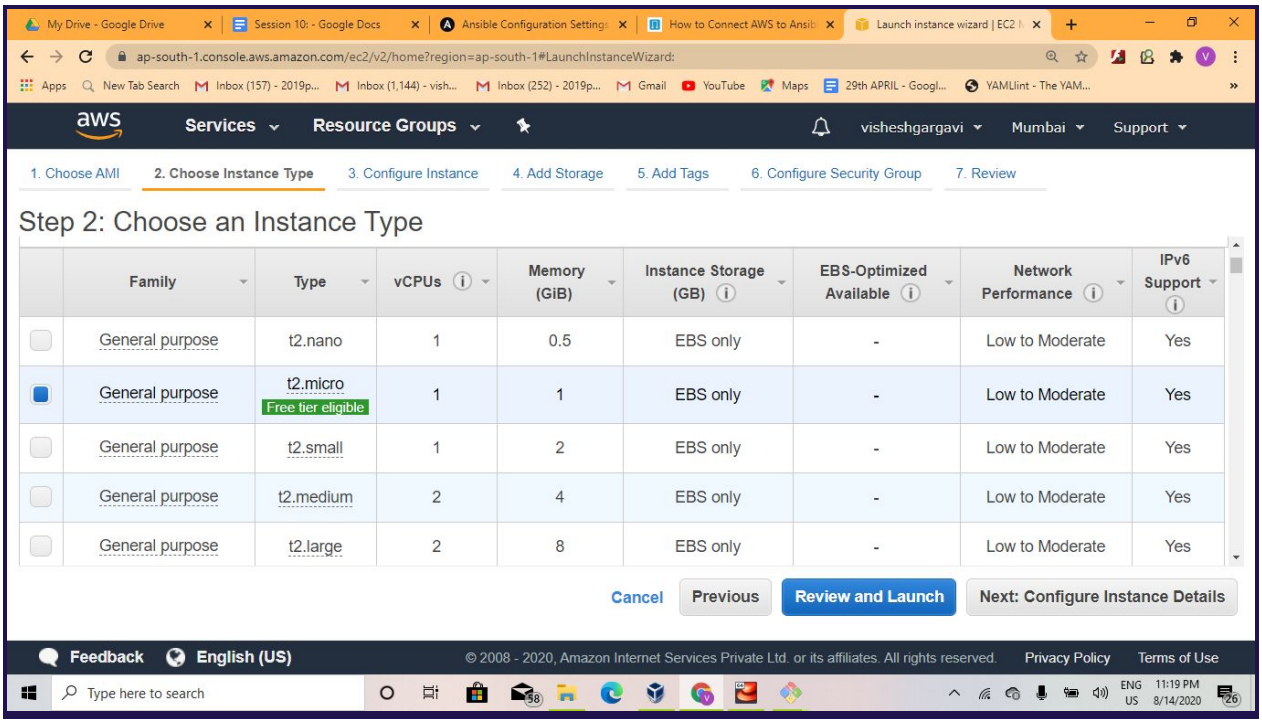
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Session 10: - Google Docs
Ansible Configuration Setting
How to Connect AWS to Ansib
Launch instance wizard | EC2
ap-south-1.console.aws.amazon.com/ec2/v2/home?region=ap-south-1#LaunchInstanceWizard:
Services
Resource Groups
visheshgargavi
Mumbai
Support
1. Choose AMI
2. Choose Instance Type
3. Configure Instance
4. Add Storage
5. Add Tags
6. Configure Security Group
7. Review
Step 2: Choose an Instance Type
Family
Type
vCPUs
Memory (GiB)
Instance Storage (GB)
EBS-Optimized Available
Network Performance
IPv6 Support
General purpose
t2.nano
1
0.5
EBS only
-
Low to Moderate
Yes
General purpose
t2.micro
Free tier eligible
1
1
EBS only
-
Low to Moderate
Yes
General purpose
t2.small
1
2
EBS only
-
Low to Moderate
Yes
General purpose
t2.medium
2
4
EBS only
-
Low to Moderate
Yes
General purpose
t2.large
2
8
EBS only
-
Low to Moderate
Yes
Cancel
Previous
Review and Launch
Next: Configure Instance Details
Feedback
English (US)
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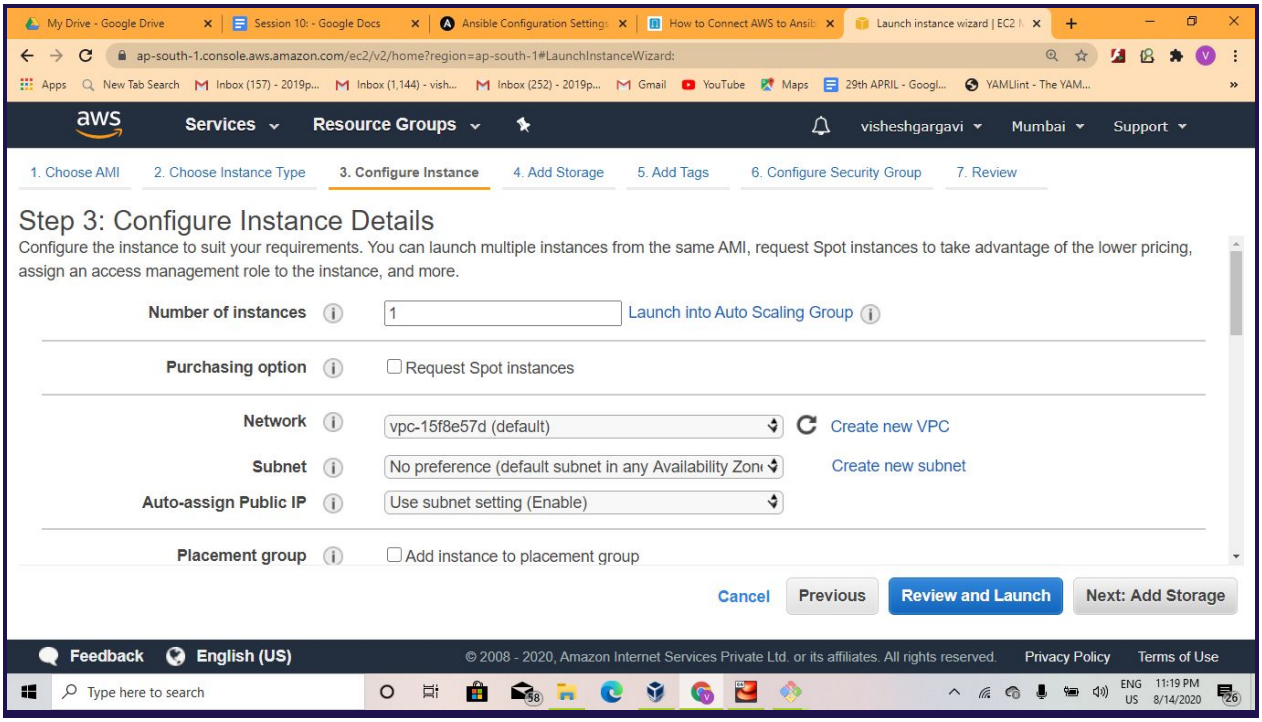
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Session 10: - Google Docs
Ansible Configuration Setting
How to Connect AWS to Ansib
Launch instance wizard | EC2
ap-south-1.console.aws.amazon.com/ec2/v2/home?region=ap-south-1#LaunchInstanceWizard:
Services
Resource Groups
visheshgargavi
Mumbai
Support
1. Choose AMI
2. Choose Instance Type
3. Configure Instance
4. Add Storage
5. Add Tags
6. Configure Security Group
7. Review
Step 3: Configure Instance Details
Configure the instance to suit your requirements. You can launch multiple instances from the same AMI, request Spot instances to take advantage of the lower pricing, assign an access management role to the instance, and more.
Number of instances
1
Launch into Auto Scaling Group
Purchasing option
Request Spot instances
Network
vpc-15f8e57d (default)
Create new VPC
Subnet
No preference (default subnet in any Availability Zone
Create new subnet
Auto-assign Public IP
Use subnet setting (Enable)
Placement group
Add instance to placement group
Cancel
Previous
Review and Launch
Next: Add Storage
Feedback
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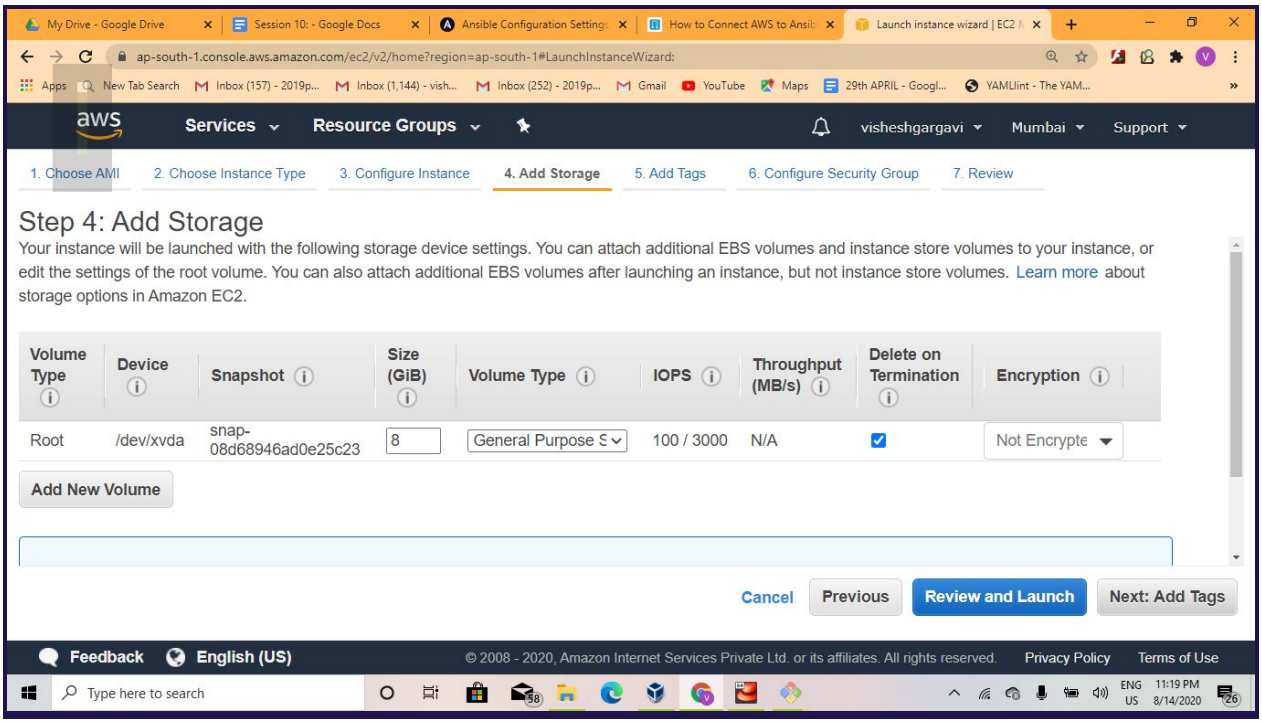
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Ansible Configuration Setting
How to Connect AWS to Ansib
Launch instance wizard | EC2
ap-south-1.console.aws.amazon.com/ec2/v2/home?region=ap-south-1#LaunchInstanceWizard:
Services
Resource Groups
visheshgargavi
Mumbai
Support
1. Choose AMI
2. Choose Instance Type
3. Configure Instance
4. Add Storage
5. Add Tags
6. Configure Security Group
7. Review
Step 4: Add Storage
Your instance will be launched with the following storage device settings. You can attach additional EBS volumes and instance store volumes to your instance, or edit the settings of the root volume. You can also attach additional EBS volumes after launching an instance, but not instance store volumes. Learn more about storage options in Amazon EC2.
Volume Type
Device
Snapshot
Size (GiB)
Volume Type
IOPS
Throughput (MB/s)
Delete on Termination
Encryption
Root
/dev/xvda
snap-08d68946ad0e25c23
8
General Purpose S
100 / 3000
N/A
Not Encrypte
Add New Volume
Cancel
Previous
Review and Launch
Next: Add Tags
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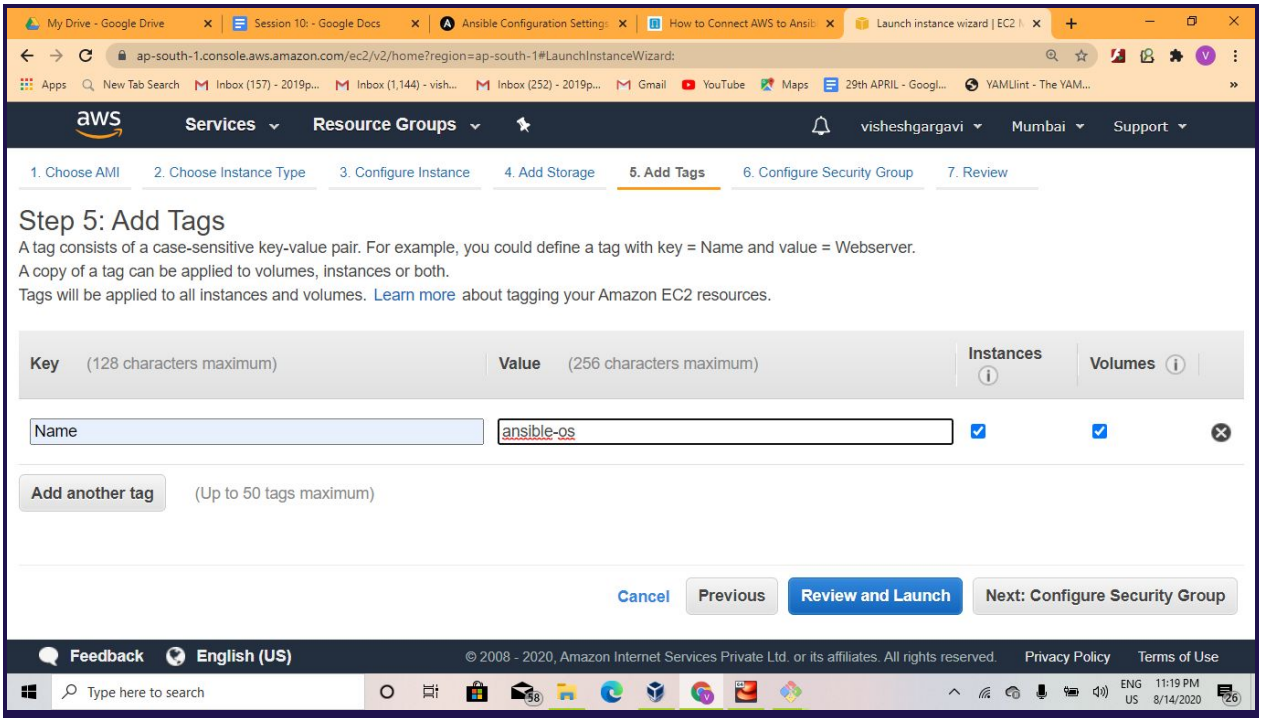
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Session 10: - Google Docs
Ansible Configuration Setting
How to Connect AWS to Ansib
Launch instance wizard | EC2
ap-south-1.console.aws.amazon.com/ec2/v2/home?region=ap-south-1#LaunchInstanceWizard:
Services
Resource Groups
visheshgargavi
Mumbai
Support
1. Choose AMI
2. Choose Instance Type
3. Configure Instance
4. Add Storage
5. Add Tags
6. Configure Security Group
7. Review
Step 5: Add Tags
A tag consists of a case-sensitive key-value pair. For example, you could define a tag with key = Name and value = Webserver.
A copy of a tag can be applied to volumes, instances or both.
Tags will be applied to all instances and volumes. Learn more about tagging your Amazon EC2 resources.
Key (128 characters maximum)
Value (256 characters maximum)
Instances
Volumes
Name
ansible-os
Add another tag
(Up to 50 tags maximum)
Cancel
Previous
Review and Launch
Next: Configure Security Group
Feedback
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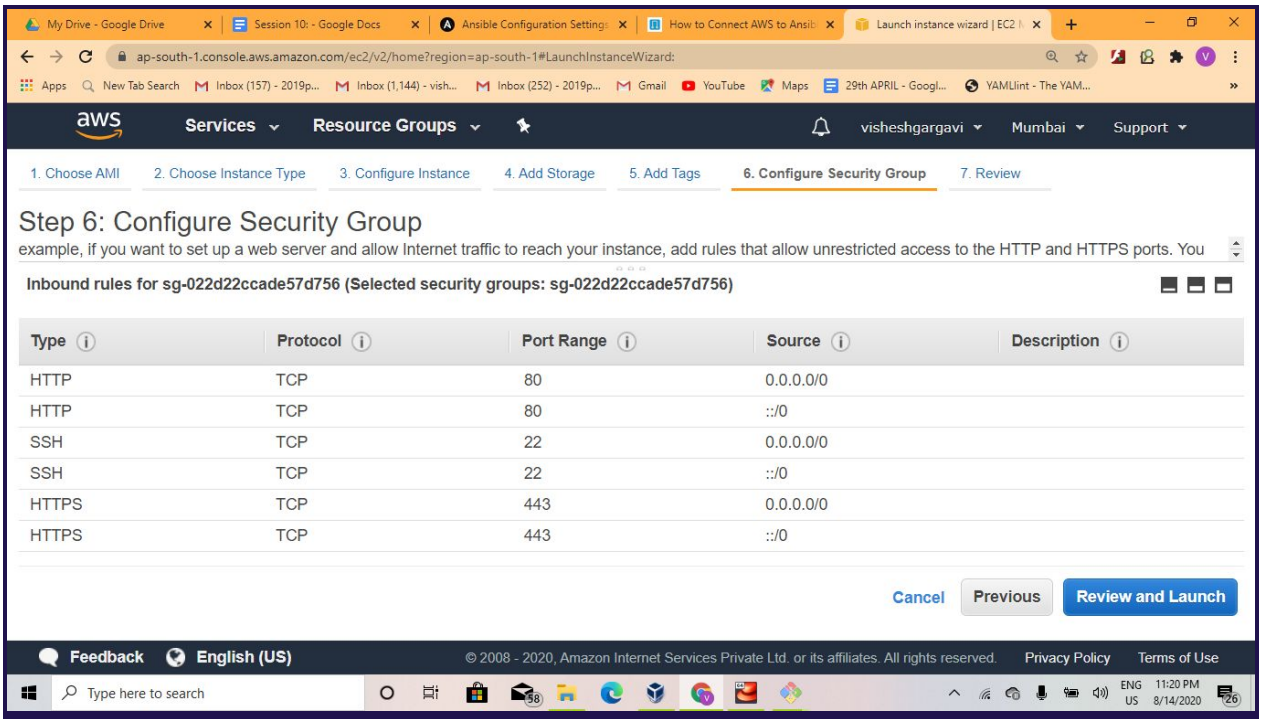
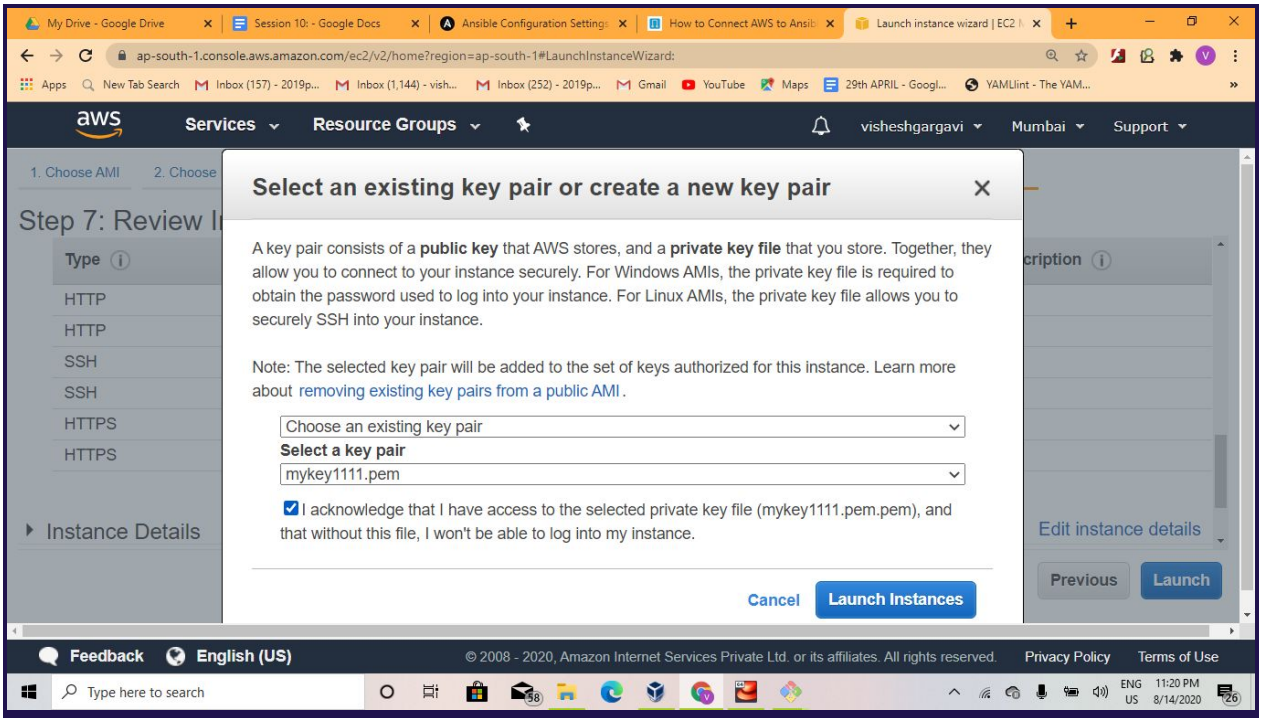
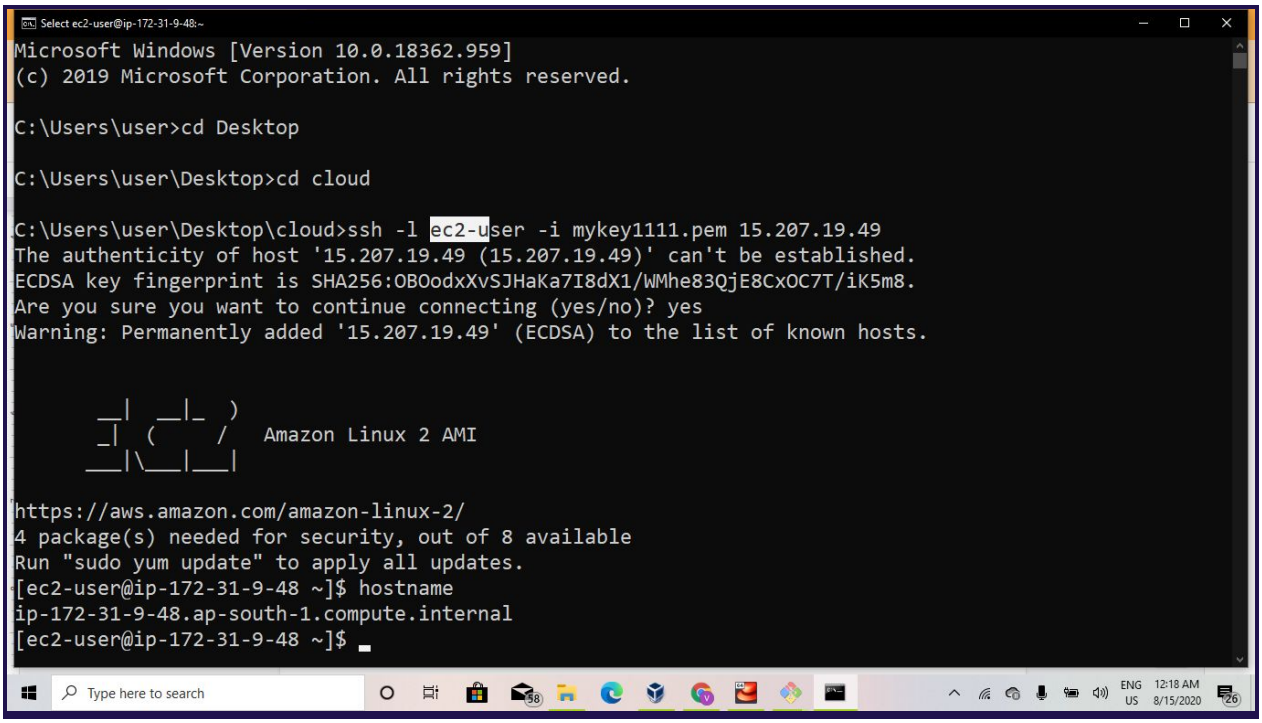
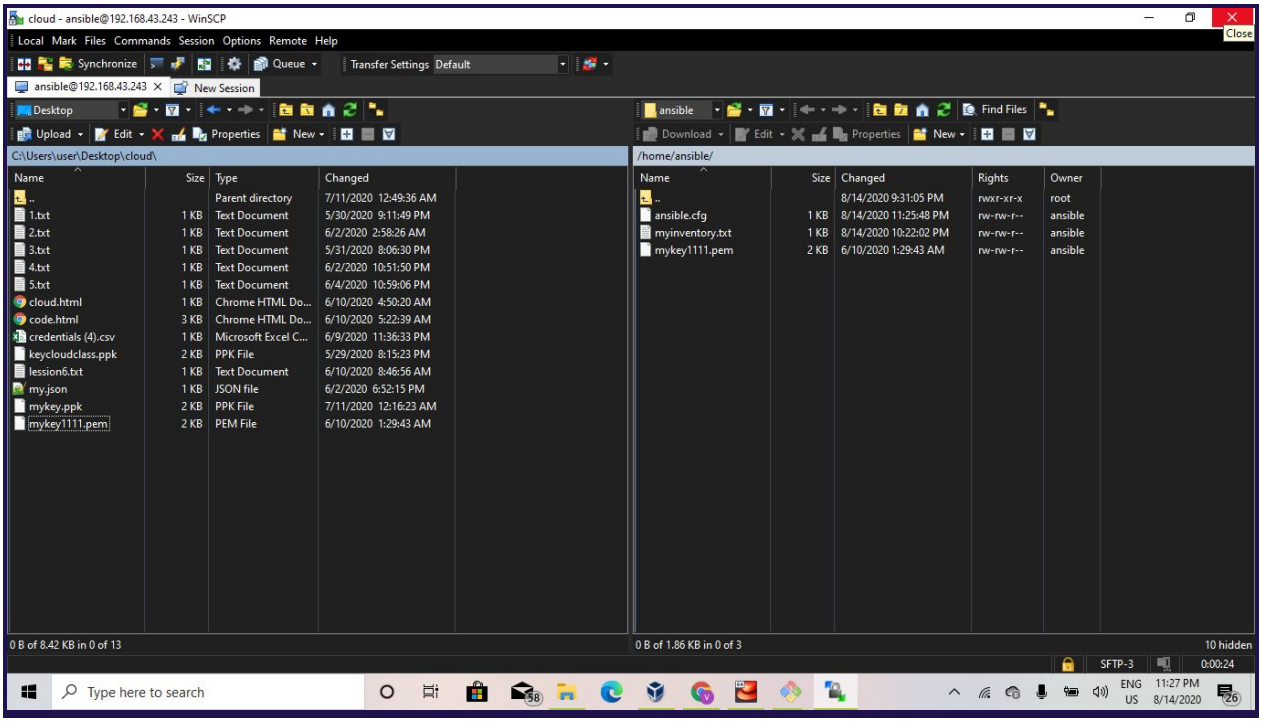




Step 3: Connect Instance with SSH



Step 4: Copying key-pair using win-scp



Step 4: Configuring host and config file

```
ansible@localhost:~
ansible-os ansible_host=15.207.19.49 ansible_user=ec2-user
 ansible_ssh_private_key_file=/home/ansible/Desktop/mykey1
111.pem
~
```

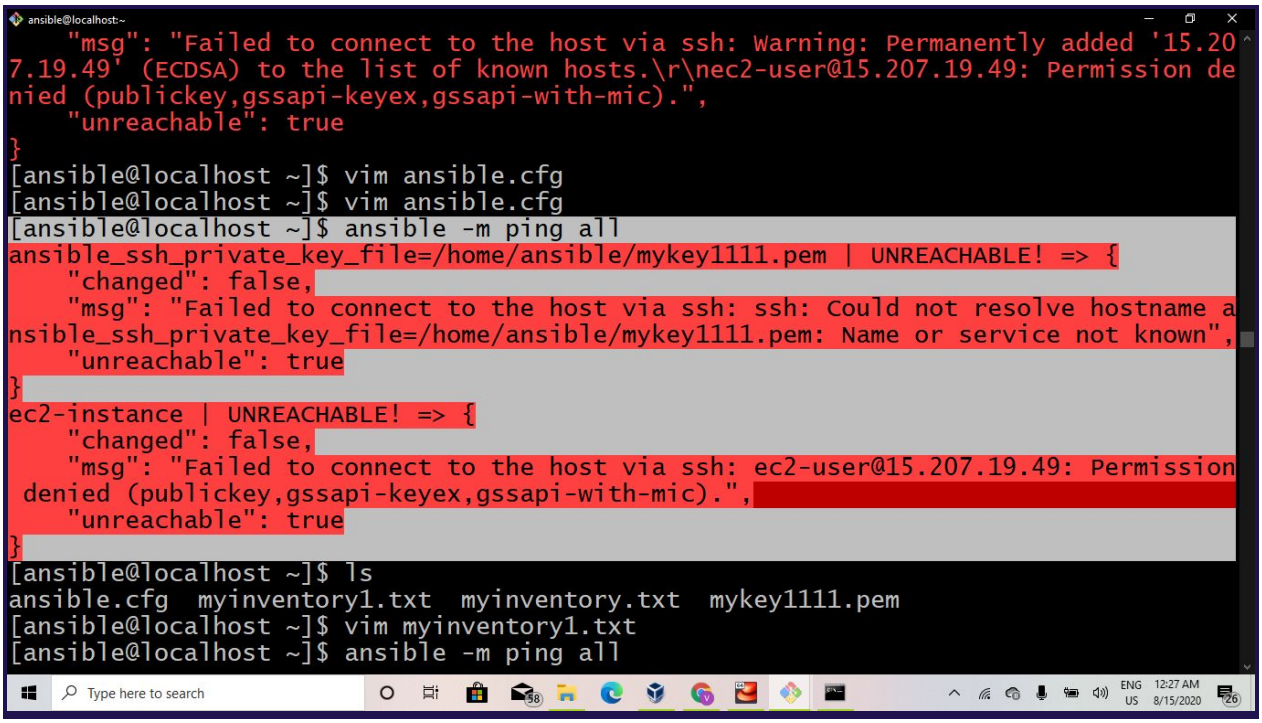
The information you will need is:

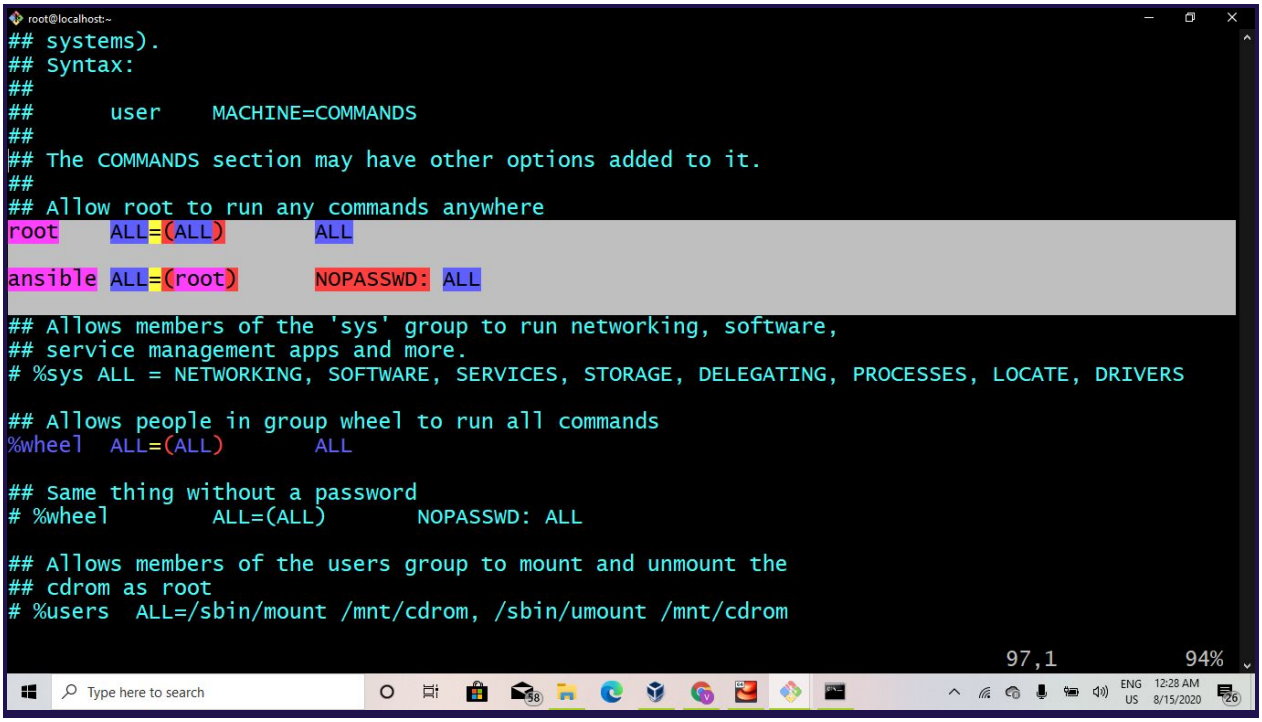
- **Name for the instance**
- **IP Address of your AWS instance(public-ip)**
- **The user present on your AWS instance (ec2-user)**
- **Location to your private key (.pem) file**

```
ansible@localhost:~
[defaults]
host_key_checking = false
inventory= /home/ansible/myinventory1.txt
ask_pass = false

[privilege_escalation]
become = true
become_method = sudo
become_user = root
become_ask_pass = false
~
~
~
~
~
~
~
~
~
~
~
                                                    4,16          All
```

Step 5: Configuring the setting and making public-key to private



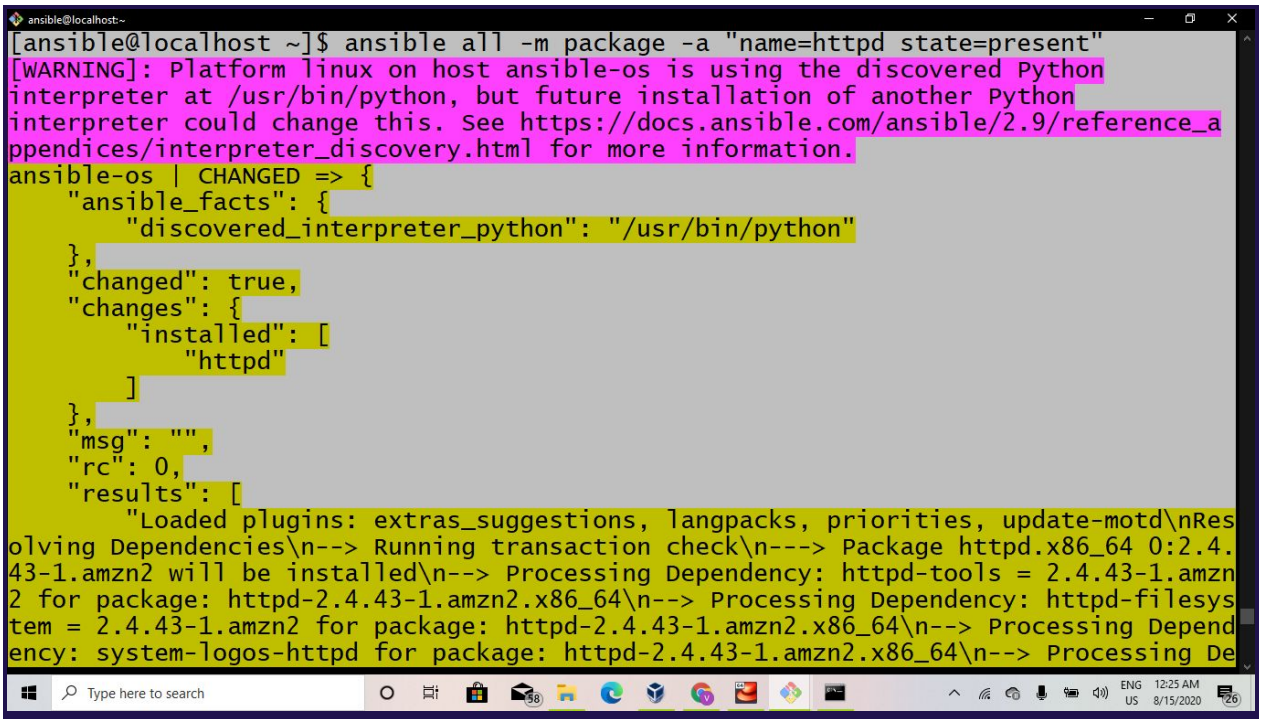



```
sudo chmod 600 /home/ansible/mykey1111.pem
```

```
sudo chmod 755 ~/.ssh
```

Step 6: Run Ansible Ping Module

```
[ansible@localhost ~]$ ansible -m ping all
[WARNING]: Platform linux on host ansible-os is using the discovered Python
interpreter at /usr/bin/python, but future installation of another Python
interpreter could change this. See https://docs.ansible.com/ansible/2.9/reference_a
ppendices/interpreter_discovery.html for more information.
ansible-os | SUCCESS => {
    "ansible_facts": {
        "discovered_interpreter_python": "/usr/bin/python"
    },
    "changed": false,
    "ping": "pong"
}
```


ansible@localhost:~
[ansible@localhost ~]$ ansible all -m package -a "name=httpd state=present"
[WARNING]: Platform linux on host ansible-os is using the discovered Python
interpreter at /usr/bin/python, but future installation of another Python
interpreter could change this. See https://docs.ansible.com/ansible/2.9/reference_a
ppendices/interpreter_discovery.html for more information.
ansible-os | CHANGED => {
"ansible_facts": {
"discovered_interpreter_python": "/usr/bin/python"
},
"changed": true,
"changes": {
"installed": [
"httpd"
]
},
"msg": "",
"rc": 0,
"results": [
"Loaded plugins: extras_suggestions, langpacks, priorities, update-motd\nRes
olving Dependencies\n--> Running transaction check\n---> Package httpd.x86_64 0:2.4.
43-1.amzn2 will be installed\n--> Processing Dependency: httpd-tools = 2.4.43-1.amzn
2 for package: httpd-2.4.43-1.amzn2.x86_64\n--> Processing Dependency: httpd-filesys
tem = 2.4.43-1.amzn2 for package: httpd-2.4.43-1.amzn2.x86_64\n--> Processing Depend
ency: system-logos-httpd for package: httpd-2.4.43-1.amzn2.x86_64\n--> Processing De
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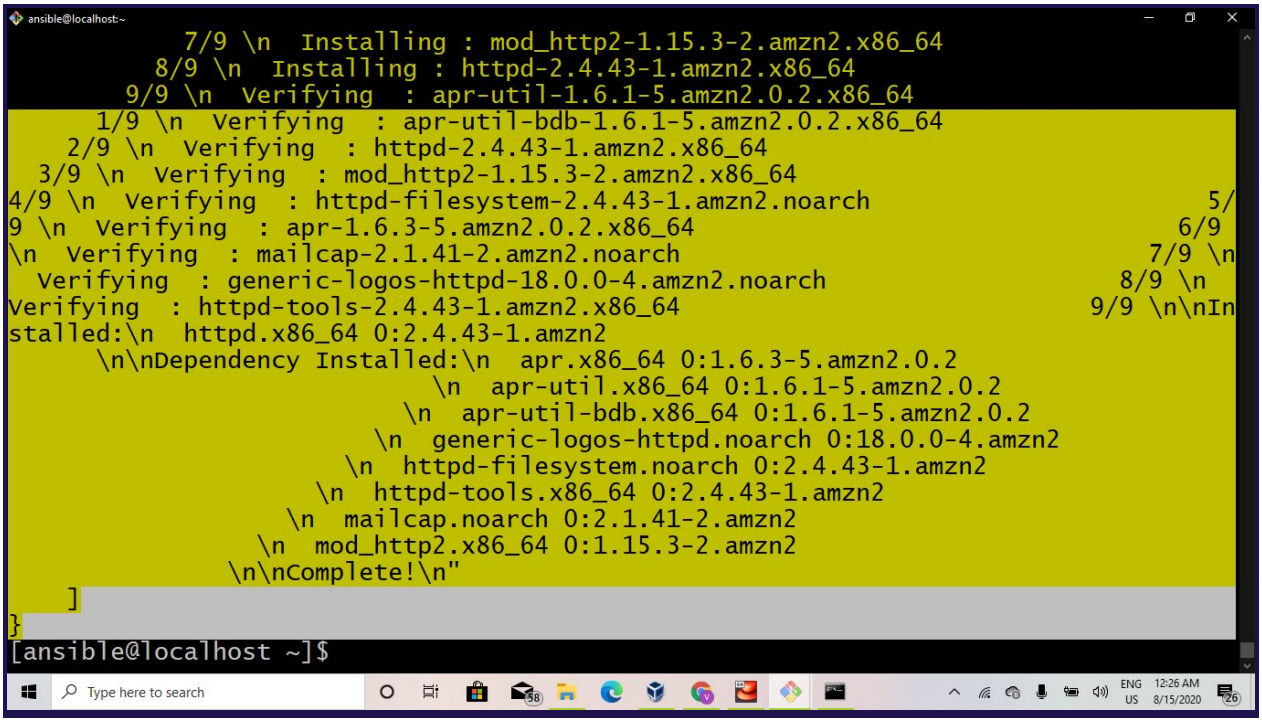
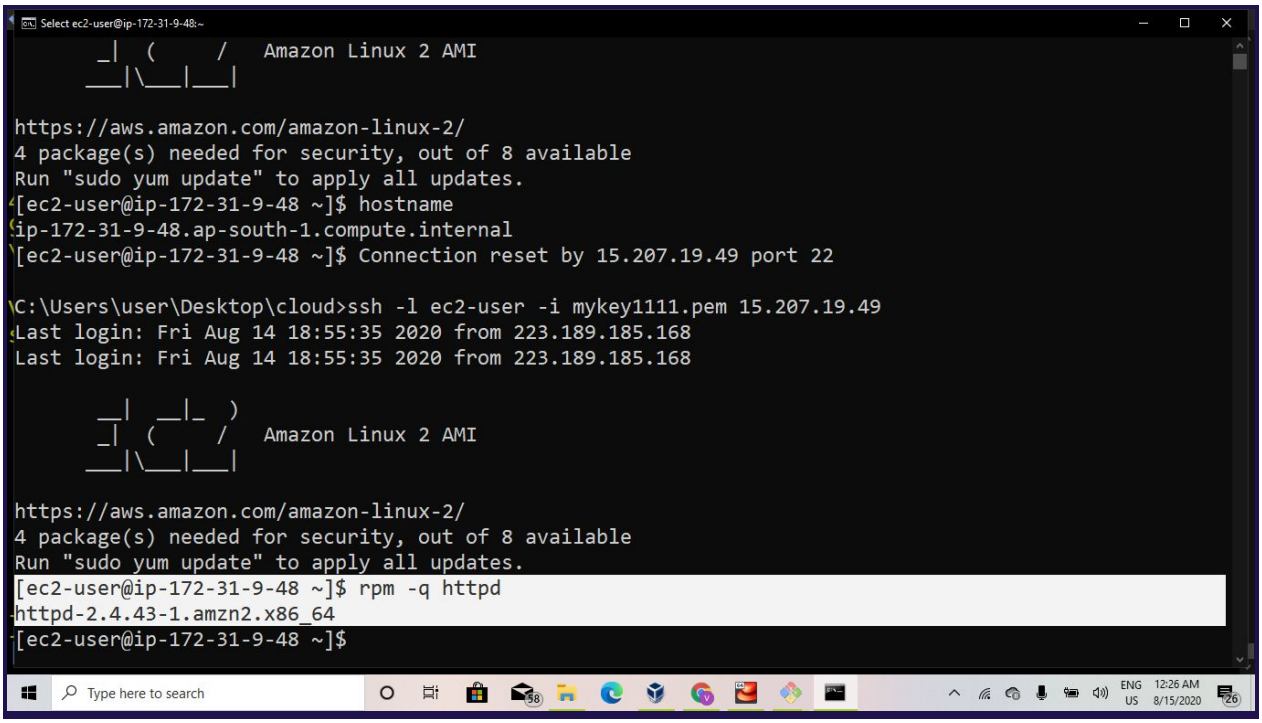
ENG US
12:25 AM
8/15/2020


ansible@localhost:~
7/9 \n Installing : mod_http2-1.15.3-2.amzn2.x86_64
8/9 \n Installing : httpd-2.4.43-1.amzn2.x86_64
9/9 \n Verifying : apr-util-1.6.1-5.amzn2.0.2.x86_64
1/9 \n Verifying : apr-util-bdb-1.6.1-5.amzn2.0.2.x86_64
2/9 \n Verifying : httpd-2.4.43-1.amzn2.x86_64
3/9 \n Verifying : mod_http2-1.15.3-2.amzn2.x86_64
4/9 \n Verifying : httpd-filesystem-2.4.43-1.amzn2.noarch 5/
9 \n Verifying : apr-1.6.3-5.amzn2.0.2.x86_64 6/9
\n Verifying : mailcap-2.1.41-2.amzn2.noarch 7/9 \n
Verifying : generic-logos-httpd-18.0.0-4.amzn2.noarch 8/9 \n
Verifying : httpd-tools-2.4.43-1.amzn2.x86_64 9/9 \n\nIn
stalled:\n httpd.x86_64 0:2.4.43-1.amzn2
\n\nDependency Installed:\n apr.x86_64 0:1.6.3-5.amzn2.0.2
\n apr-util.x86_64 0:1.6.1-5.amzn2.0.2
\n apr-util-bdb.x86_64 0:1.6.1-5.amzn2.0.2
\n generic-logos-httpd.noarch 0:18.0.0-4.amzn2
\n httpd-filesystem.noarch 0:2.4.43-1.amzn2
\n httpd-tools.x86_64 0:2.4.43-1.amzn2
\n mailcap.noarch 0:2.1.41-2.amzn2
\n mod_http2.x86_64 0:1.15.3-2.amzn2
\n\nComplete!\n"
]
}
[ansible@localhost ~]$
Type here to search
ENG US
12:26 AM
8/15/2020


Select ec2-user@ip-172-31-9-48:~
Amazon Linux 2 AMI
https://aws.amazon.com/amazon-linux-2/
4 package(s) needed for security, out of 8 available
Run "sudo yum update" to apply all updates.
[ec2-user@ip-172-31-9-48 ~]$ hostname
ip-172-31-9-48.ap-south-1.compute.internal
[ec2-user@ip-172-31-9-48 ~]$ Connection reset by 15.207.19.49 port 22
C:\Users\user\Desktop\cloud>ssh -l ec2-user -i mykey1111.pem 15.207.19.49
Last login: Fri Aug 14 18:55:35 2020 from 223.189.185.168
Last login: Fri Aug 14 18:55:35 2020 from 223.189.185.168
Amazon Linux 2 AMI
https://aws.amazon.com/amazon-linux-2/
4 package(s) needed for security, out of 8 available
Run "sudo yum update" to apply all updates.
[ec2-user@ip-172-31-9-48 ~]$ rpm -q httpd
httpd-2.4.43-1.amzn2.x86_64
[ec2-user@ip-172-31-9-48 ~]$
Type here to search
ENG
US
12:26 AM
8/15/2020