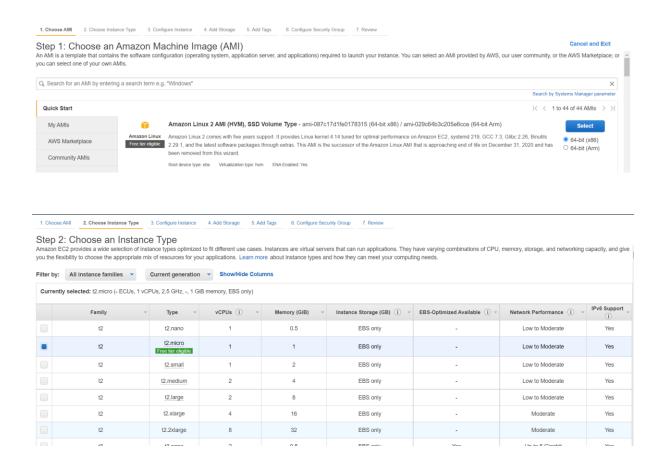
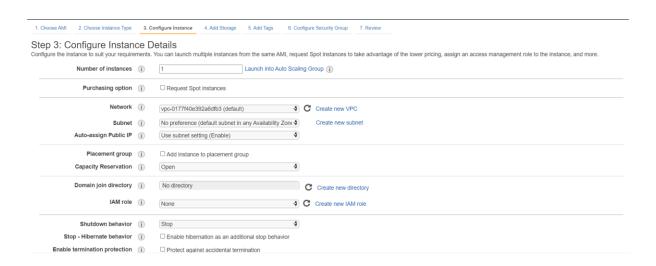
# Lab 1

# 1. creating an EC2 instance in Linux.





### ▼ Advanced Details Metadata accessible (i) Enabled Metadata version (i) V1 and V2 (token optional) 4 Metadata token response hop limit (i) User data (i) As text ○ As file □ Input is already base64 encoded (Optional) 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 (i) Size (GiB) i Volume Type i IOPS (i) Device (i) Snapshot (i) Encryption (i) snap-0699a041095ac5492 8 General Purpose SSD (gp2) v 100 / 3000 N/A Root /dev/xvda **V** Not Encrypted Add New Volume Free tier eligible customers can get up to 30 GB of EBS General Purpose (SSD) or Magnetic storage. Learn more about free usage tier eligibility and usage restrictions. 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. Value (256 characters maximum) Network Interfaces (i) Key (128 characters maximum) Instances (i) Volumes (i) lab 1 linux **V ~** 8 Add another tag (Up to 50 tags maximum)

Assign a security group: 

Create a new security group

Step 6: Configure Security Group
A security group is a set of firewall rules that control the traffic for your instance. On this page, you can add rules to allow specific traffic to reach your instance. For example, if you want to set up a web server and allow Internet traffic to reach your instance, add rules that allow unrestricted access to the HTTP and HTTPS ports. You can create a new security group or select from an existing one below. Learn more about Amazon EC2 security groups.

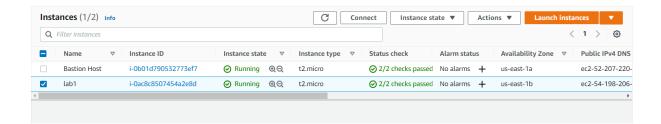


Warning

Rules with source of 0.0.0.0/0 allow all IP addresses to access your instance. We recommend setting security group rules to allow access from known IP addresses only.

1. Choose AMI 2. Choose Instance Type 3. Configure Instance 4. Add Storage 5. Add Tags 6. Configure Security Group 7. Review

#### Instance



#### Creating a virtual desktop in the current instance.

#### Python is pre-installed in Linux. Installing pip package.

```
ec2-user@ip-172-31-22-64 ~]$ sudo yum install python-pip
.oaded plugins: extras_suggestions, langpacks, priorities, update-motd
                                                                                                                    3.7 kB 00:00:00
mzn2-core
Resolving Dependencies
 -> Running transaction check
 --> Package python2-pip.noarch 0:20.2.2-1.amzn2.0.3 will be installed -> Finished Dependency Resolution
Dependencies Resolved
                                                                                                                                         Size
Package
                                  Arch
                                                             Version
                                                                                                        Repository
Installing:
                                                                                                                                        2.0 M
                                  noarch
                                                             20.2.2-1.amzn2.0.3
                                                                                                        amzn2-core
python2-pip
Transaction Summary
Install 1 Package
Total download size: 2.0 M
Installed size: 9.5 M
[s this ok [y/d/N]: y
Downloading packages:
python2-pip-20.2.2-1.amzn2.0.3.noarch.rpm
                                                                                                                    2.0 MB 00:00:00
Running transaction check
Running transaction test
Transaction test succeeded
Running transaction
Installing : python2-pip-20.2.2-1.amzn2.0.3.noarch
  Verifying : python2-pip-20.2.2-1.amzn2.0.3.noarch
 python2-pip.noarch 0:20.2.2-1.amzn2.0.3
 omplete!
```

# Executing a program

```
[ec2-user@ip-172-31-22-64 ~]$ touch admin.py
[ec2-user@ip-172-31-22-64 ~]$ ls -lrt
total 0
-rw-rw-r-- 1 ec2-user ec2-user 0 Sep 10 20:05 admin.py
[ec2-user@ip-172-31-22-64 ~]$ cat admin.py
[ec2-user@ip-172-31-22-64 ~]$ python admin.py
[ec2-user@ip-172-31-22-64 ~]$ python admin.py
[ec2-user@ip-172-31-22-64 ~]$ touch admin.py
[ec2-user@ip-172-31-22-64 ~]$ touch admin.py
[ec2-user@ip-172-31-22-64 ~]$ ls -lrt
total 0
-rw-rw-r-- 1 ec2-user ec2-user 0 Sep 10 20:10 admin.py
[ec2-user@ip-172-31-22-64 ~]$ nano admin.py
```

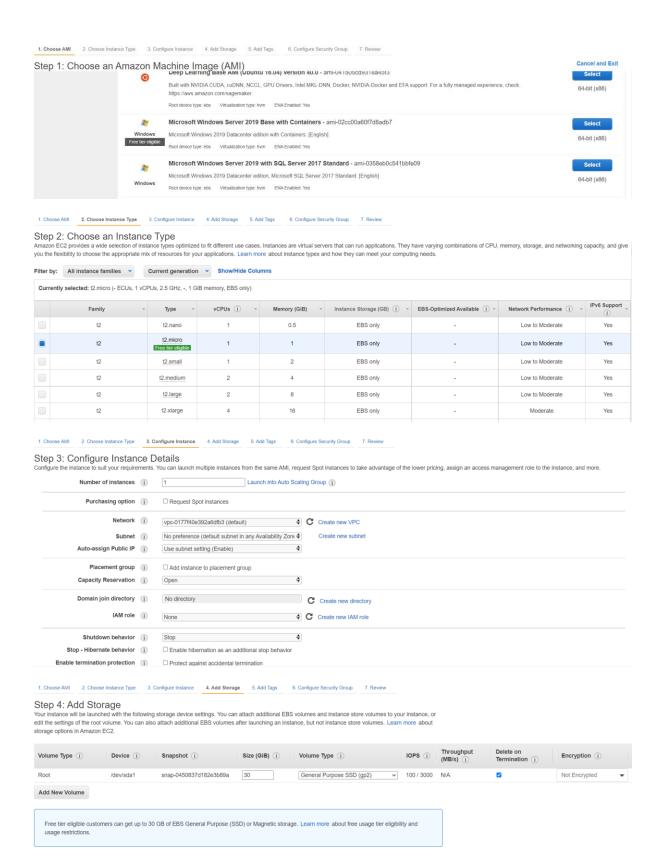
### output

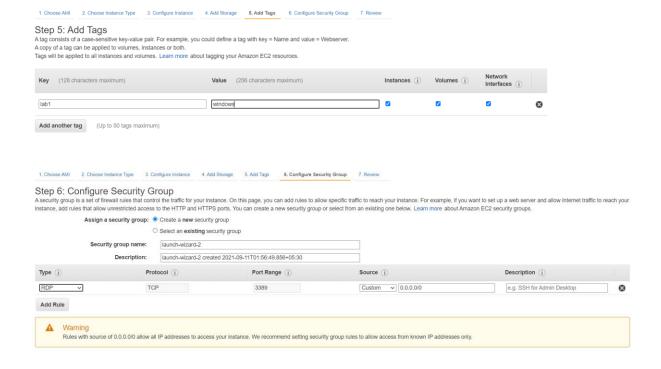
```
[ec2-user@ip-172-31-22-64 ~]$ cat admin.py

print ('amazon EC2 is a web service')
[ec2-user@ip-172-31-22-64 ~]$ python admin.py

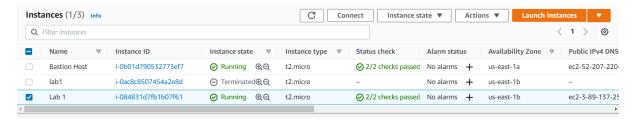
amazon EC2 is a web service
[ec2-user@ip-172-31-22-64 ~]$
```

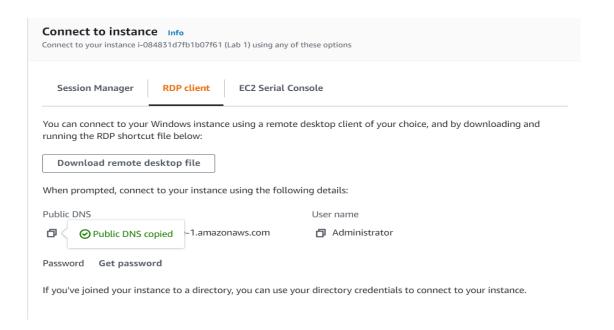
# 2. Creating an EC2 instance in windows

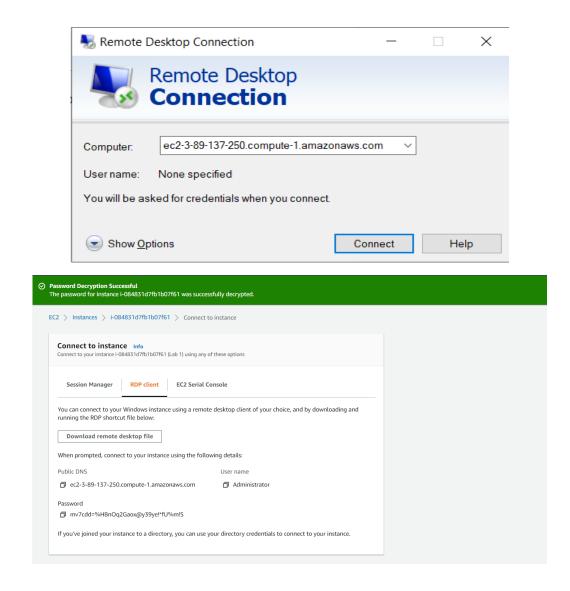




#### Instances







# Virtual Windows desktop



# Installing python



#### Execution

```
Microsoft Windows [Version 10.0.17763.2114]
(c) 2018 Microsoft Corporation. All rights reserved.

C:\Users\Administrator>python
Python 3.9.7 (tags/v3.9.7:1016ef3, Aug 30 2021, 20:19:38) [MSC v.1929 64 bit (AND64)] on win32
Type "help", "copyright", "credits" or "license" for more information.

>>> exit()

C:\Users\Administrator>cd Desktop

C:\Users\Administrator\Desktop>python admin.txt

Amazon Elastic Compute Cloud (Amazon EC2) is a web service that provides resizable compute capacity in the cloud.It is designed to make web-scale cloud computing easier for developers.

C:\Users\Administrator\Desktop>_

C:\Users\Administrator\Desktop>_

C:\Users\Administrator\Desktop>_
```

# Thank you