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ROLL NO	20BIS020
SUBJECT CODE-SUBJECT	ODD 22-23-U18ISE0006-CLOUD ARCHITECTURE AND COMPUTING

LAB-2 : Linux Instance creation

Aim:

Launching an AWS instance which runs Redhat Linux.

Required AWS services:

EC2

Procedure :

1. In Amazon management console, choose EC2 under services tab

2. Click Launch Instance

3. Choose AMI image

select any Linux OS (free tier)

4. Choose the instance type

5. Click Next : configure instance details

a. Leave all default setting as it is.

b. Leave default setting for Storage, Tags

Leave the default settings

c. In security group, Click Add rule

select HTTP

In Source drop down list , select Anywhere

Click Add rule

select HTTPS

In Source drop down list , select Anywhere

Click Review and Launch

Click Launch

d. Security key pair

Choose Create new keypair

Type key pair name : Webserver

Click download keypair (pem key)

Click Launch Instance

On launch status page click View Instances

6. Convert pem private key into ppk private key using puttygen

7. Connect though putty

a. Copy the public IP from Instance and paste it in Host name of putty

b. Browse for PPK key in auth

a. Click open in session

b. Click accept

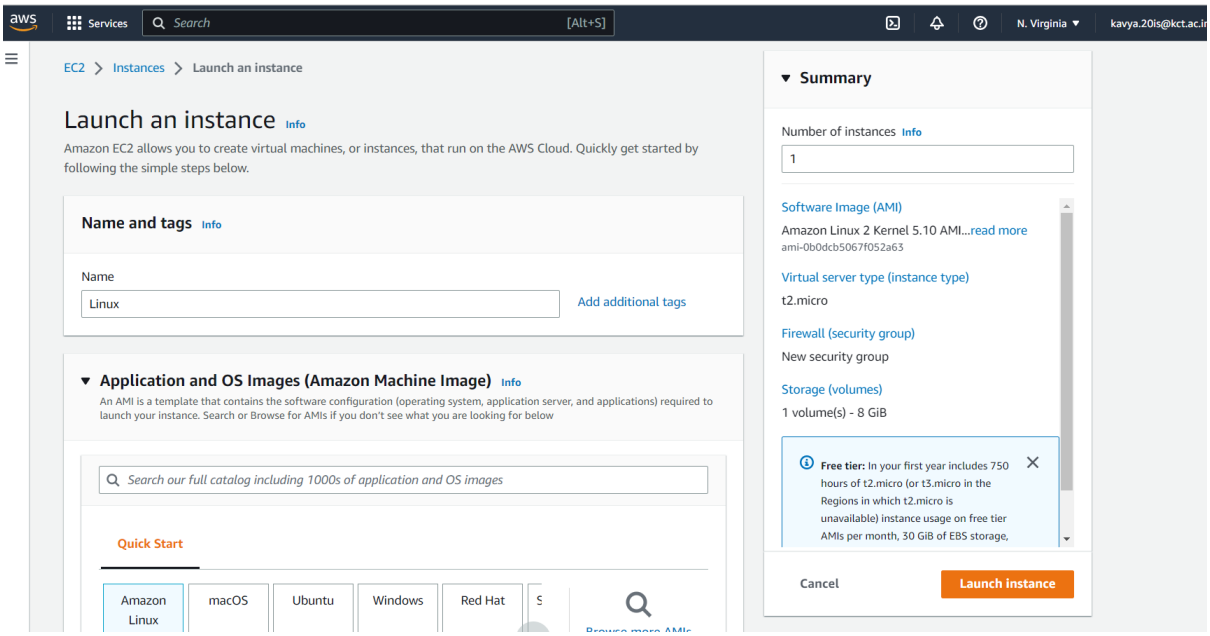
c. Type key phrase if any

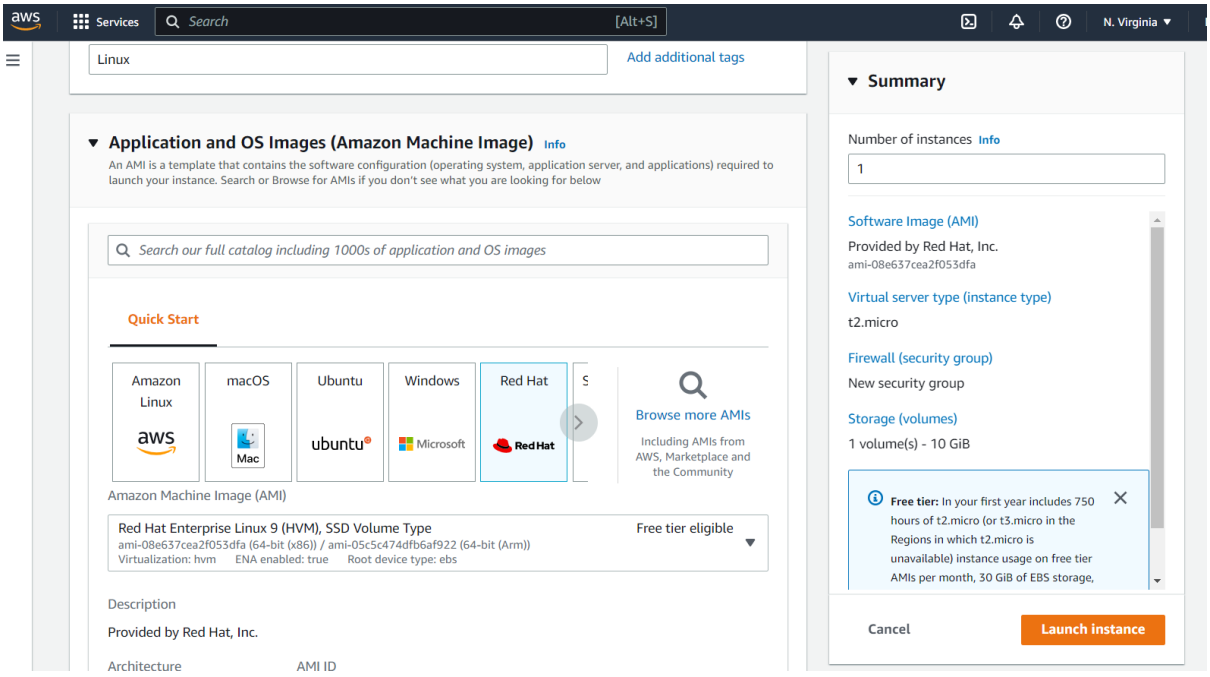
Now linux instance is ready

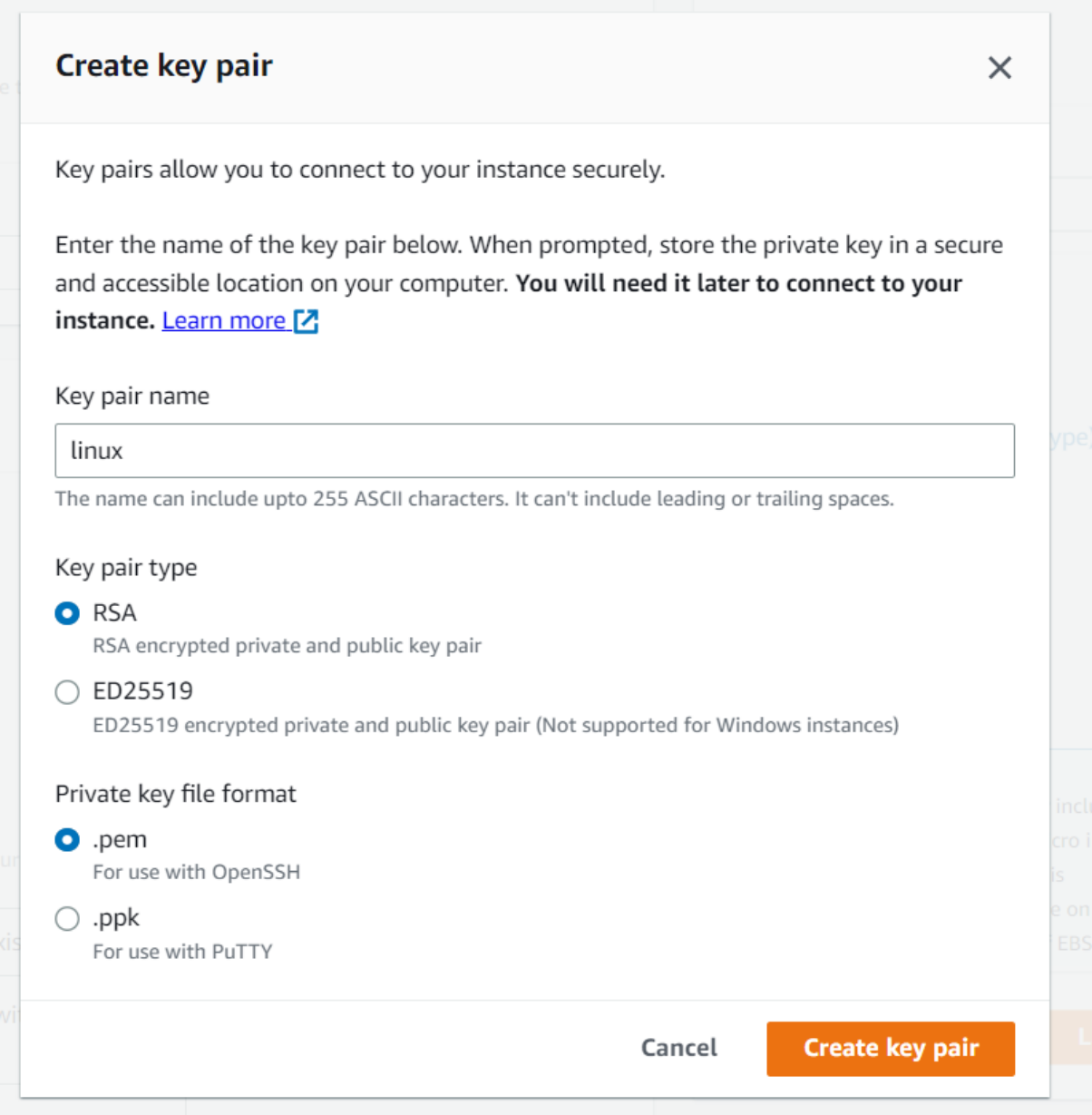
8. Execute linux commands

OUTPUT:

LAUNCH AN INSTANCE






Create key pair
Key pairs allow you to connect to your instance securely.
Enter the name of the key pair below. When prompted, store the private key in a secure and accessible location on your computer. **You will need it later to connect to your instance.** Learn more
Key pair name
linux
The name can include upto 255 ASCII characters. It can't include leading or trailing spaces.
Key pair type
RSA
RSA encrypted private and public key pair
ED25519
ED25519 encrypted private and public key pair (Not supported for Windows instances)
Private key file format
.pem
For use with OpenSSH
.ppk
For use with PuTTY
Cancel
Create key pair

Network settings Info

VPC - *required* Info

vpc-0d9965613f7d3fbeb (default)
172.31.0.0/16

Subnet Info

No preference

Create new subnet

Auto-assign public IP Info

Enable

Firewall (security groups) Info

A security group is a set of firewall rules that control the traffic for your instance. Add rules to allow specific traffic to reach your instance.

Create security group | Select existing security group

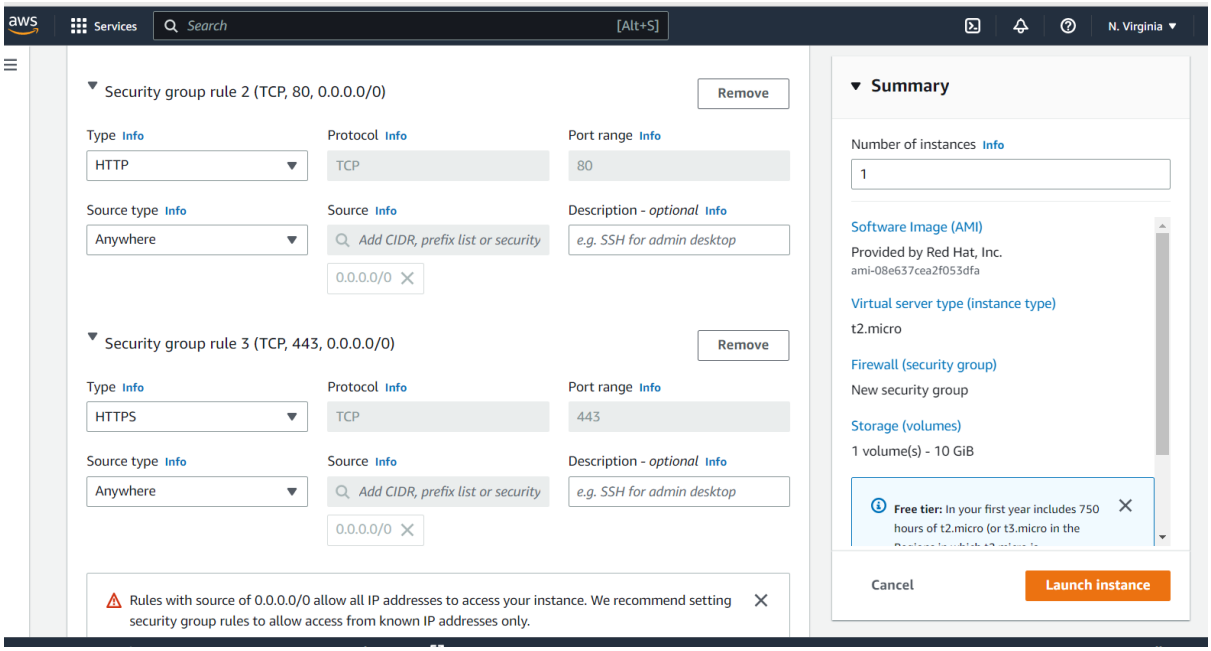
Security group name - *required*

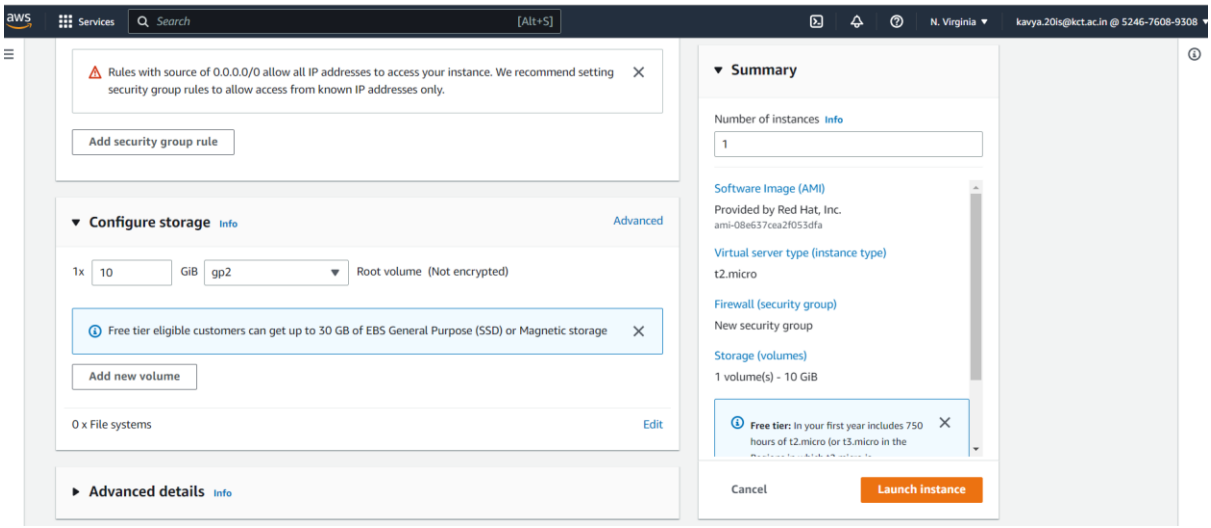
linux

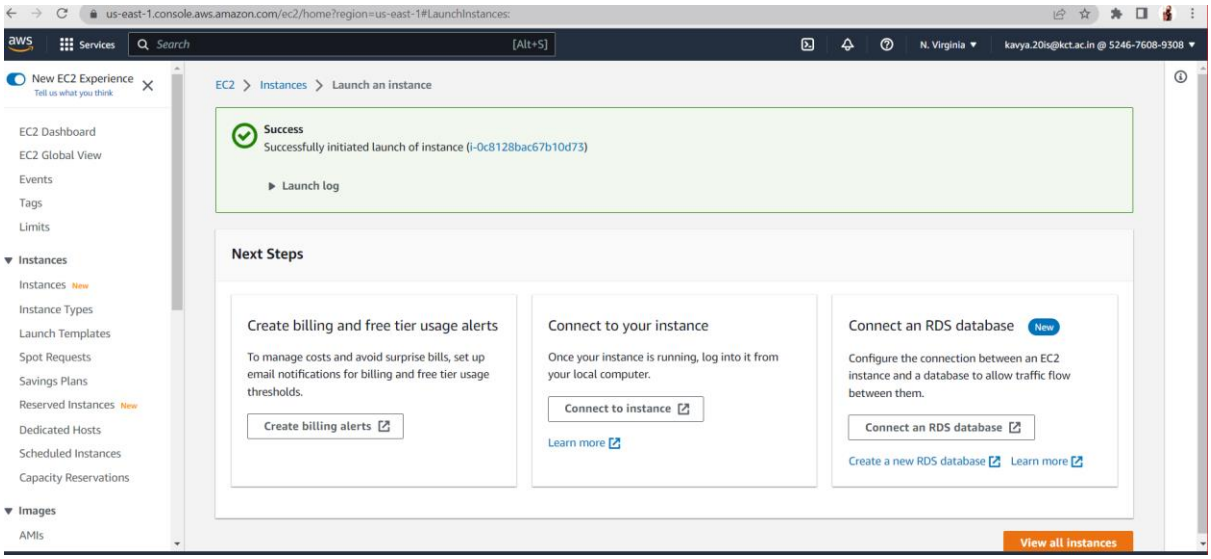
This security group will be added to all network interfaces. The name can't be edited after the security group is created. Max length is 255 characters. Valid characters: a-z, A-Z, 0-9, spaces, and ._-:/()#,@[]+=&;{}!$*

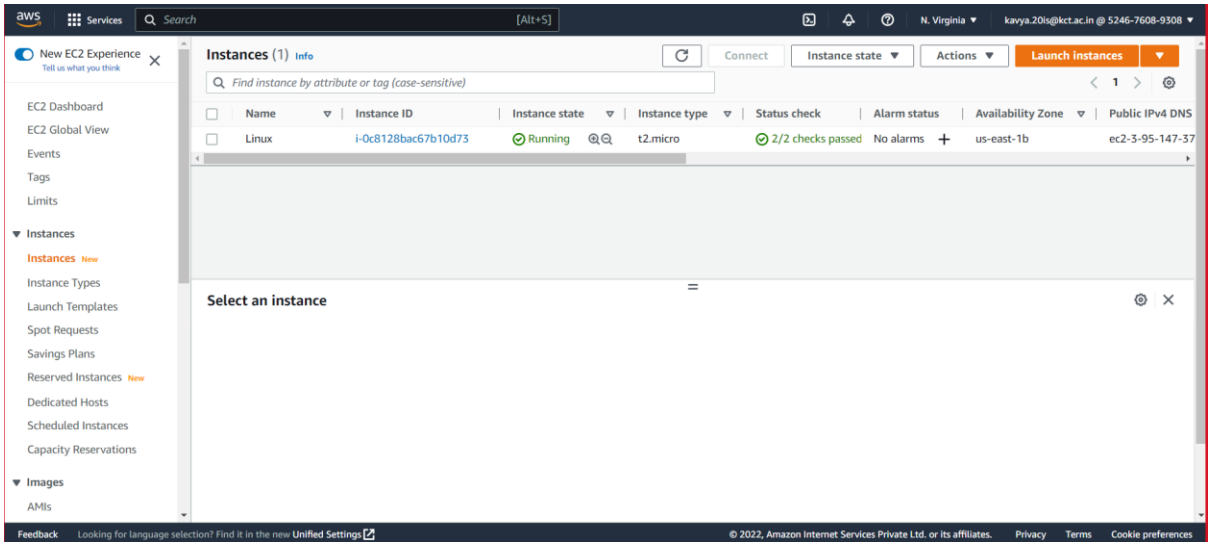
Description - *required* Info

linux created 2022-12-08T11:53:38.398Z

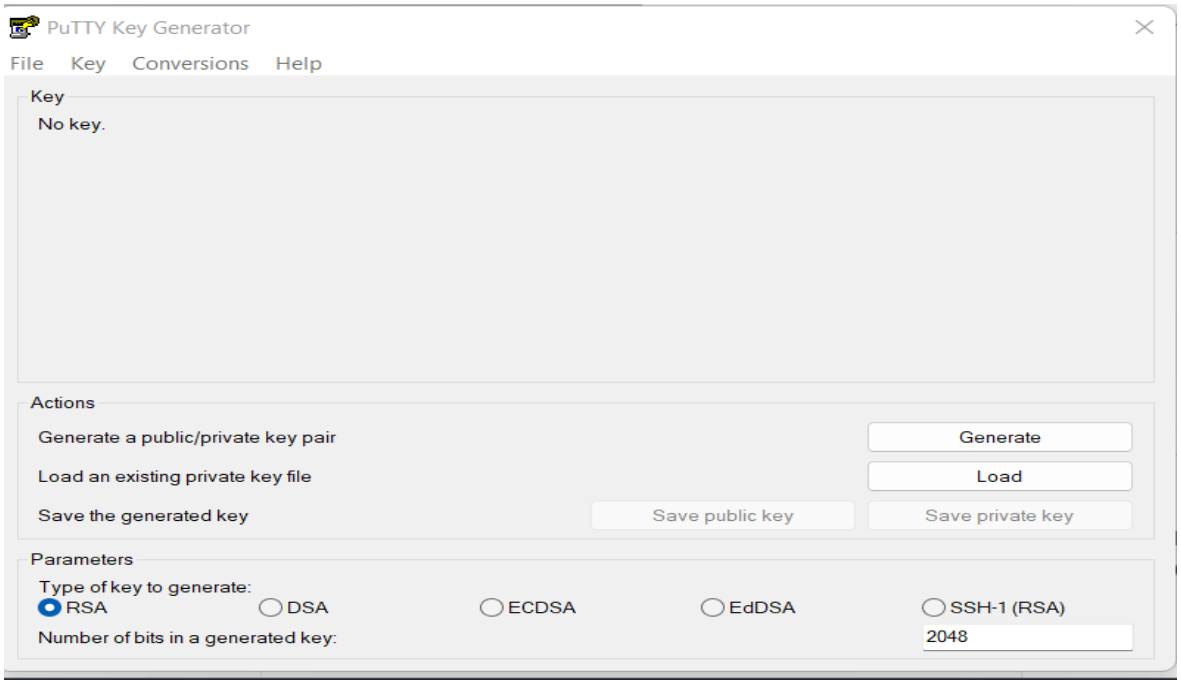


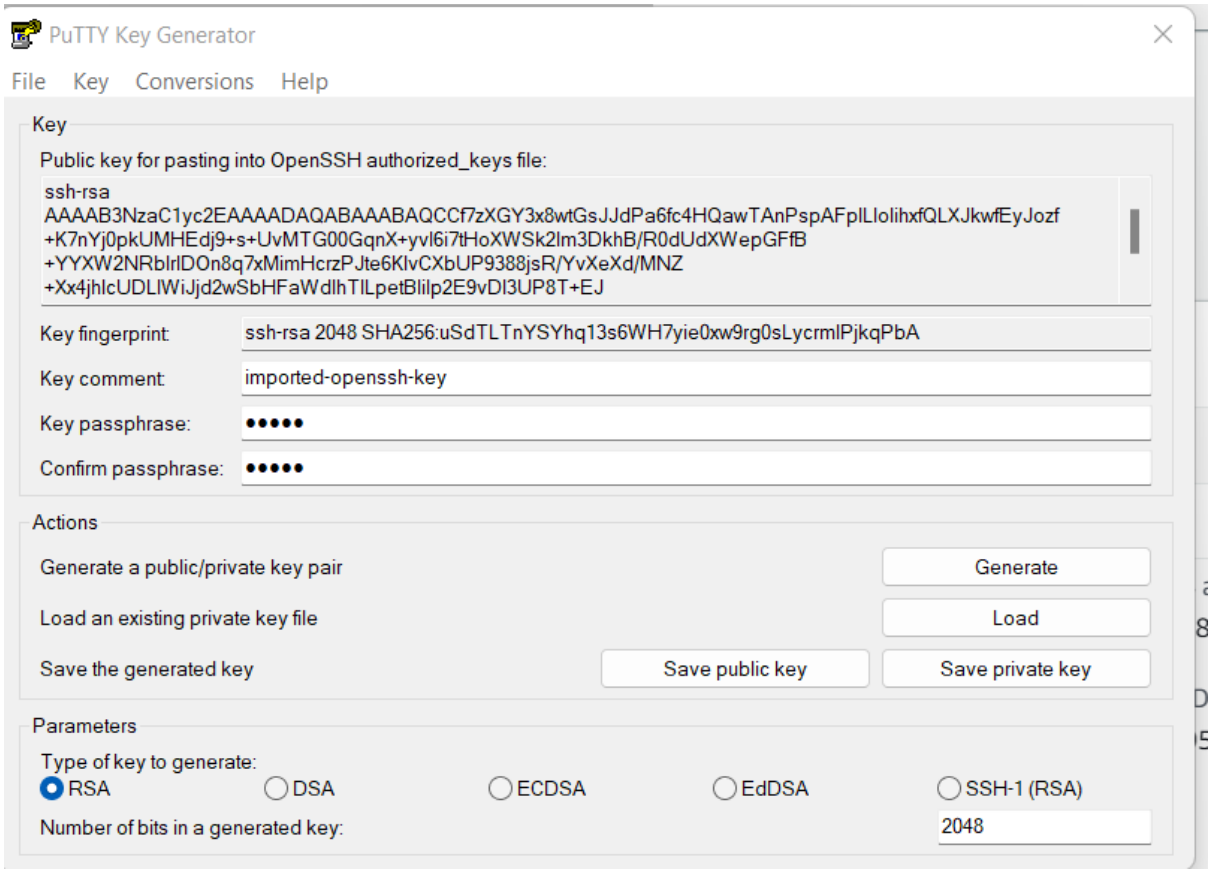

Services
Search
[Alt+S]
N. Virginia
kavya.20is@kct.ac.in @ 5246-7608-9308
Rules with source of 0.0.0.0/0 allow all IP addresses to access your instance. We recommend setting security group rules to allow access from known IP addresses only.
Add security group rule
Configure storage Info
Advanced
1x 10 GiB gp2 Root volume (Not encrypted)
Free tier eligible customers can get up to 30 GB of EBS General Purpose (SSD) or Magnetic storage
Add new volume
0 x File systems
Edit
Advanced details Info
Summary
Number of instances Info
1
Software Image (AMI)
Provided by Red Hat, Inc.
ami-08e637cea2f053dfa
Virtual server type (instance type)
t2.micro
Firewall (security group)
New security group
Storage (volumes)
1 volume(s) - 10 GiB
Free tier: In your first year includes 750 hours of t2.micro (or t3.micro in the
Cancel
Launch instance

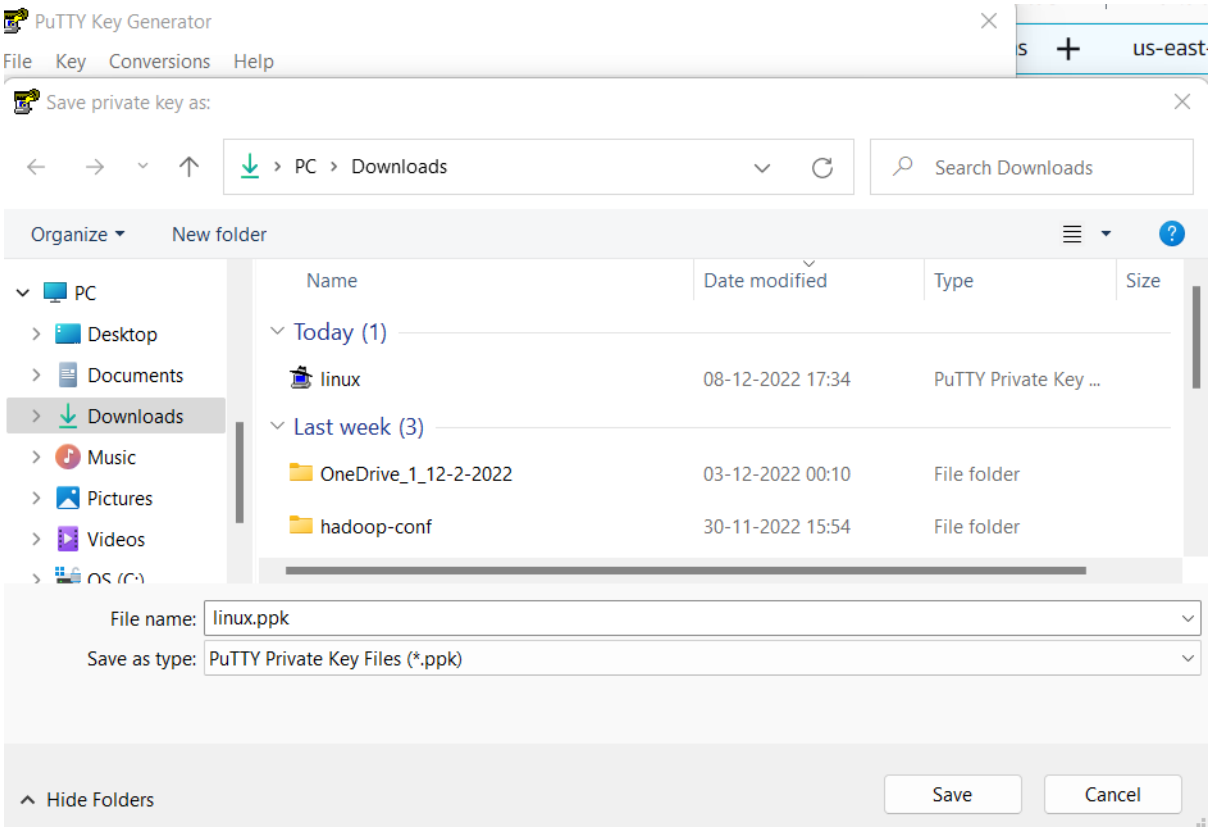

us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#LaunchInstances:
Services
Search
[Alt+S]
N. Virginia
kavya.20is@kct.ac.in @ 5246-7608-9308
New EC2 Experience
Tell us what you think
EC2 Dashboard
EC2 Global View
Events
Tags
Limits
Instances
Instances New
Instance Types
Launch Templates
Spot Requests
Savings Plans
Reserved Instances New
Dedicated Hosts
Scheduled Instances
Capacity Reservations
Images
AMIs
EC2 > Instances > Launch an instance
Success
Successfully initiated launch of instance (i-0c8128bac67b10d73)
Launch log
Next Steps
Create billing and free tier usage alerts
To manage costs and avoid surprise bills, set up email notifications for billing and free tier usage thresholds.
Create billing alerts
Connect to your instance
Once your instance is running, log into it from your local computer.
Connect to instance
Learn more
Connect an RDS database New
Configure the connection between an EC2 instance and a database to allow traffic flow between them.
Connect an RDS database
Create a new RDS database
Learn more
View all instances


Services
Search
[Alt+S]
N. Virginia
kavya.20is@kct.ac.in @ 5246-7608-9308
New EC2 Experience
Tell us what you think
Instances (1) Info
Connect
Instance state
Actions
Launch instances
Find instance by attribute or tag (case-sensitive)
Name
Instance ID
Instance state
Instance type
Status check
Alarm status
Availability Zone
Public IPv4 DNS
Linux
i-0c8128bac67b10d73
Running
t2.micro
2/2 checks passed
No alarms
us-east-1b
ec2-3-95-147-37
Select an instance
EC2 Dashboard
EC2 Global View
Events
Tags
Limits
Instances
Instances New
Instance Types
Launch Templates
Spot Requests
Savings Plans
Reserved Instances New
Dedicated Hosts
Scheduled Instances
Capacity Reservations
Images
AMIs
Feedback
Looking for language selection? Find it in the new Unified Settings
© 2022, Amazon Internet Services Private Ltd. or its affiliates.
Privacy
Terms
Cookie preferences

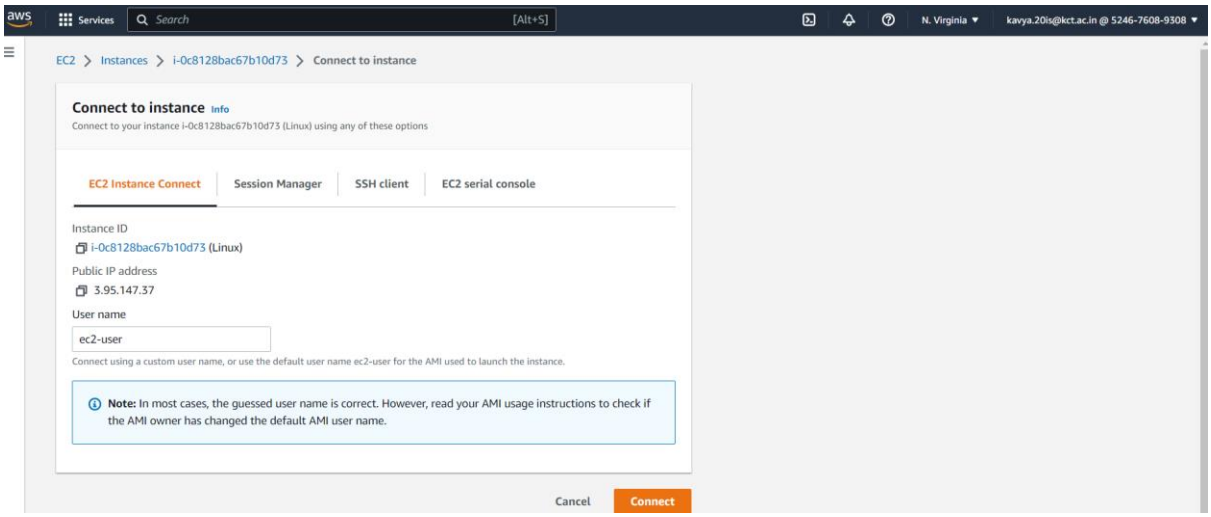
Conversion of .pem to .ppk :



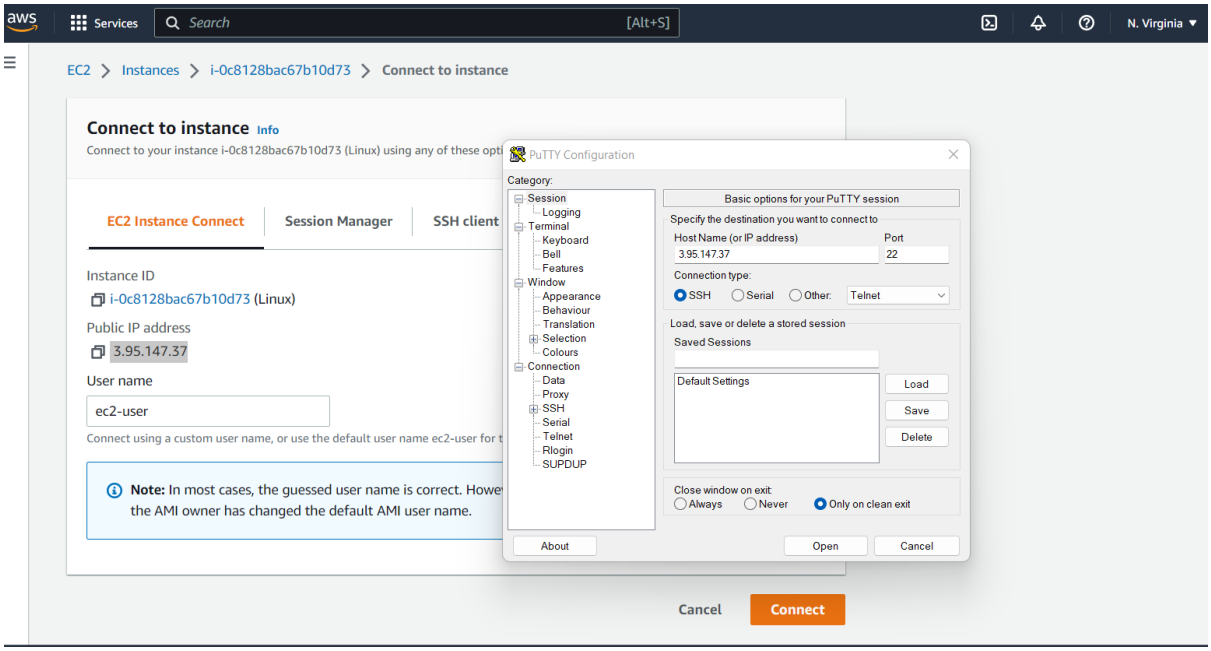


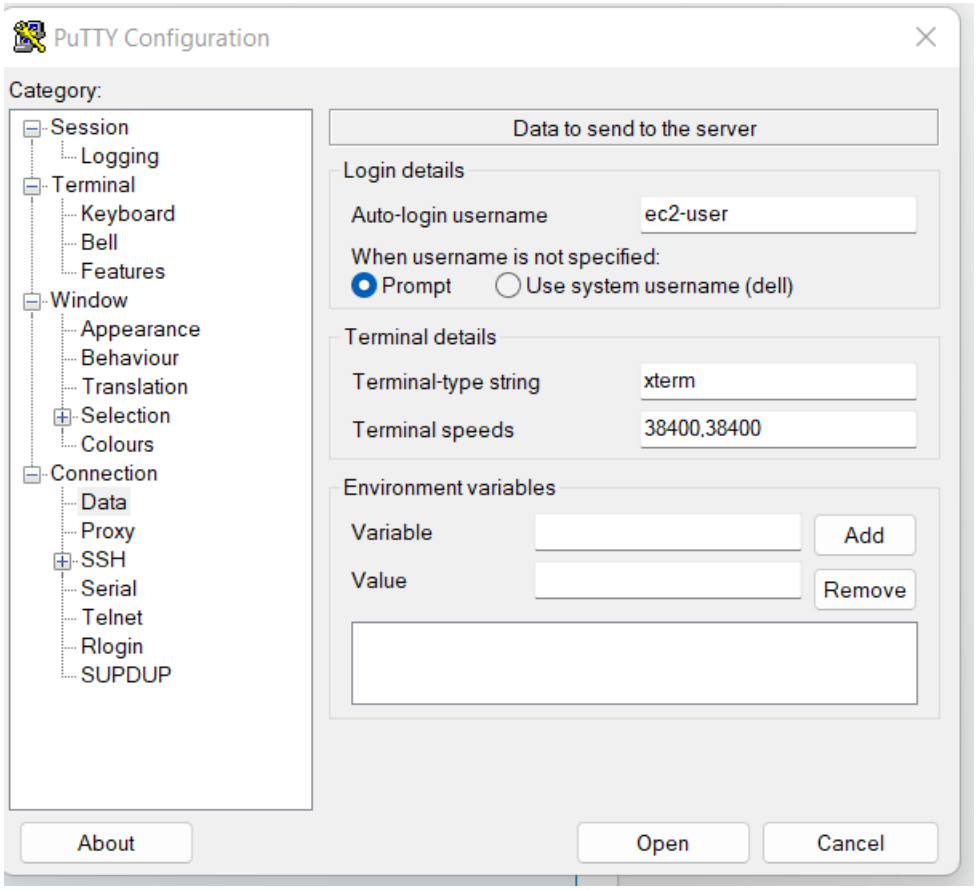


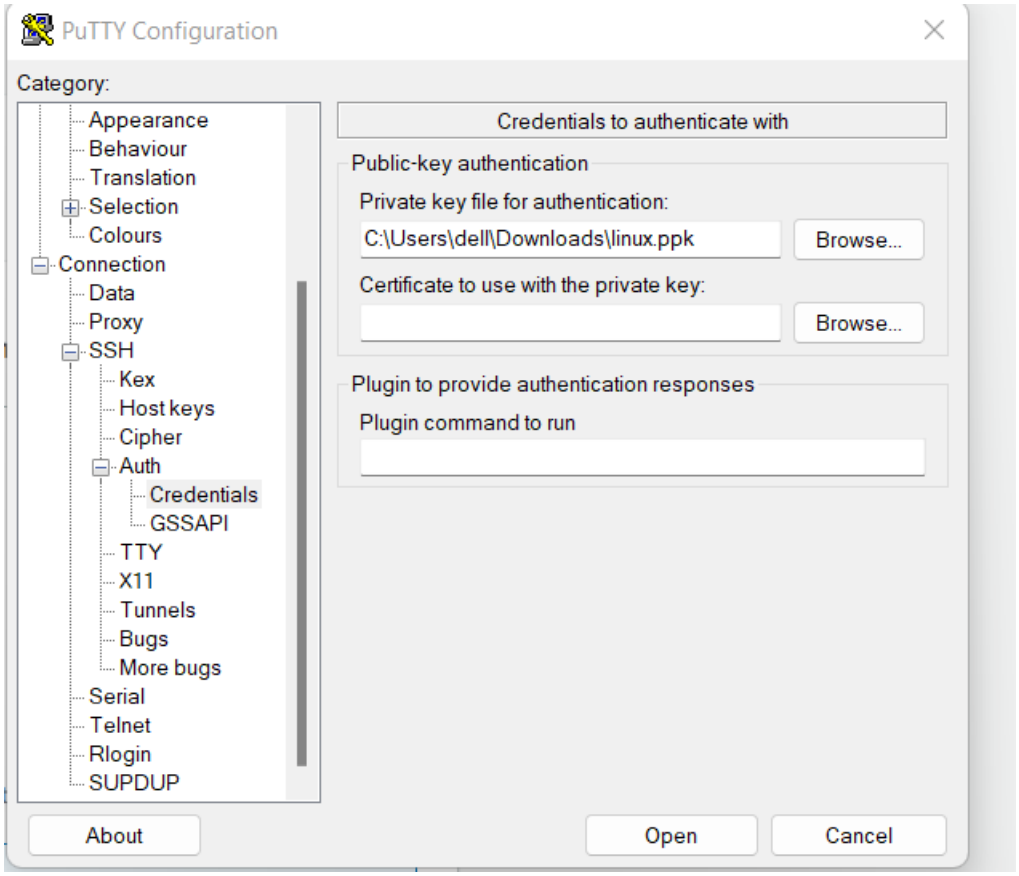
CONNECT TO INSTANCE:

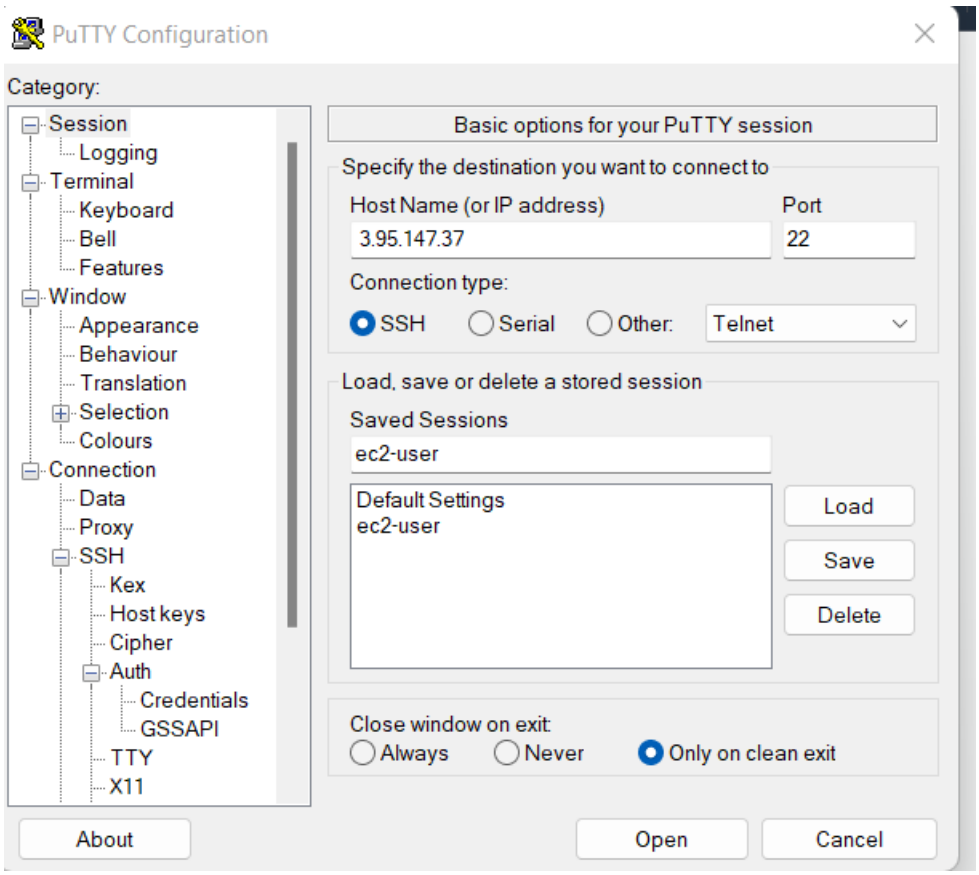


PUTTY:


aws
Services
Search
[Alt+S]
N. Virginia
EC2 > Instances > i-0c8128bac67b10d73 > Connect to instance
Connect to instance Info
Connect to your instance i-0c8128bac67b10d73 (Linux) using any of these opti
EC2 Instance Connect
Session Manager
SSH client
Instance ID
i-0c8128bac67b10d73 (Linux)
Public IP address
3.95.147.37
User name
ec2-user
Connect using a custom user name, or use the default user name ec2-user for t
Note: In most cases, the guessed user name is correct. Howe
the AMI owner has changed the default AMI user name.
Cancel
Connect
PuTTY Configuration
Category:
Session
Logging
Terminal
Keyboard
Bell
Features
Window
Appearance
Behaviour
Translation
Selection
Colours
Connection
Data
Proxy
SSH
Serial
Telnet
Rlogin
SUPDUP
Basic options for your PuTTY session
Specify the destination you want to connect to
Host Name (or IP address)
Port
3.95.147.37
22
Connection type:
SSH
Serial
Other:
Telnet
Load, save or delete a stored session
Saved Sessions
Default Settings
Load
Save
Delete
Close window on exit:
Always
Never
Only on clean exit
About
Open
Cancel


PuTTY Configuration
Category:
Session
Logging
Terminal
Keyboard
Bell
Features
Window
Appearance
Behaviour
Translation
Selection
Colours
Connection
Data
Proxy
SSH
Serial
Telnet
Rlogin
SUPDUP
Data to send to the server
Login details
Auto-login username
ec2-user
When username is not specified:
Prompt
Use system username (dell)
Terminal details
Terminal-type string
xterm
Terminal speeds
38400,38400
Environment variables
Variable
Add
Value
Remove
About
Open
Cancel


PuTTY Configuration
Category:
Appearance
Behaviour
Translation
Selection
Colours
Connection
Data
Proxy
SSH
Kex
Host keys
Cipher
Auth
Credentials
GSSAPI
TTY
X11
Tunnels
Bugs
More bugs
Serial
Telnet
Rlogin
SUPDUP
Credentials to authenticate with
Public-key authentication
Private key file for authentication:
C:\Users\dell\Downloads\linux.ppk
Browse...
Certificate to use with the private key:
Browse...
Plugin to provide authentication responses
Plugin command to run
About
Open
Cancel


PuTTY Configuration
Category:
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Keyboard
Bell
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Window
Appearance
Behaviour
Translation
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Connection
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SSH
Kex
Host keys
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Credentials
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3.95.147.37
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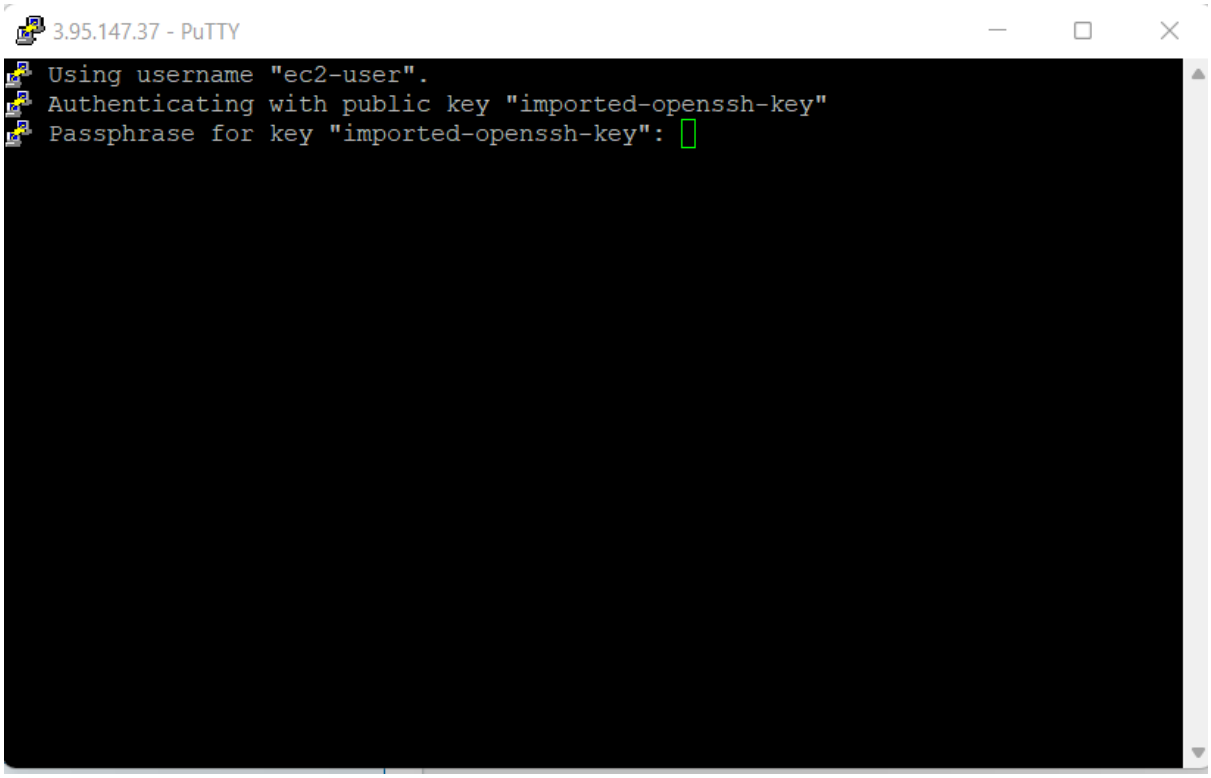
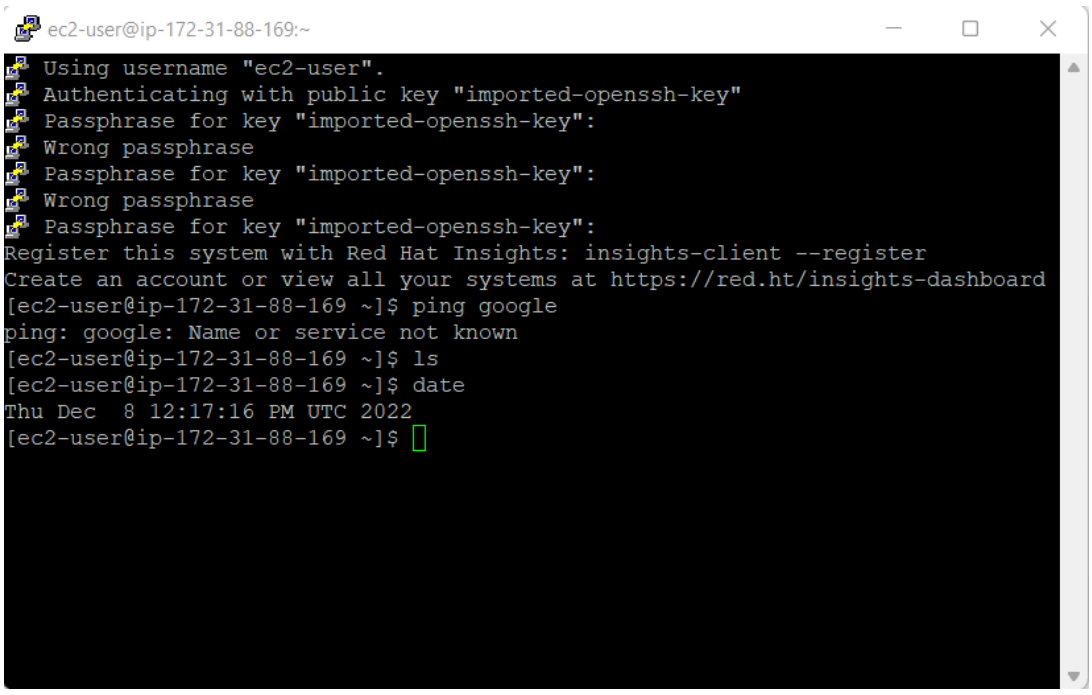
SSH
Serial
Other:
Telnet
Load, save or delete a stored session
Saved Sessions
ec2-user
Default Settings
ec2-user
Load
Save
Delete
Close window on exit:
Always
Never
Only on clean exit
About
Open
Cancel

OUTPUT LINUX:



Execute linux commands: date