Tutorial 1a: Create Linux EC2 Instance | t2 micro & do ssh connection to it.

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Roll No – 01
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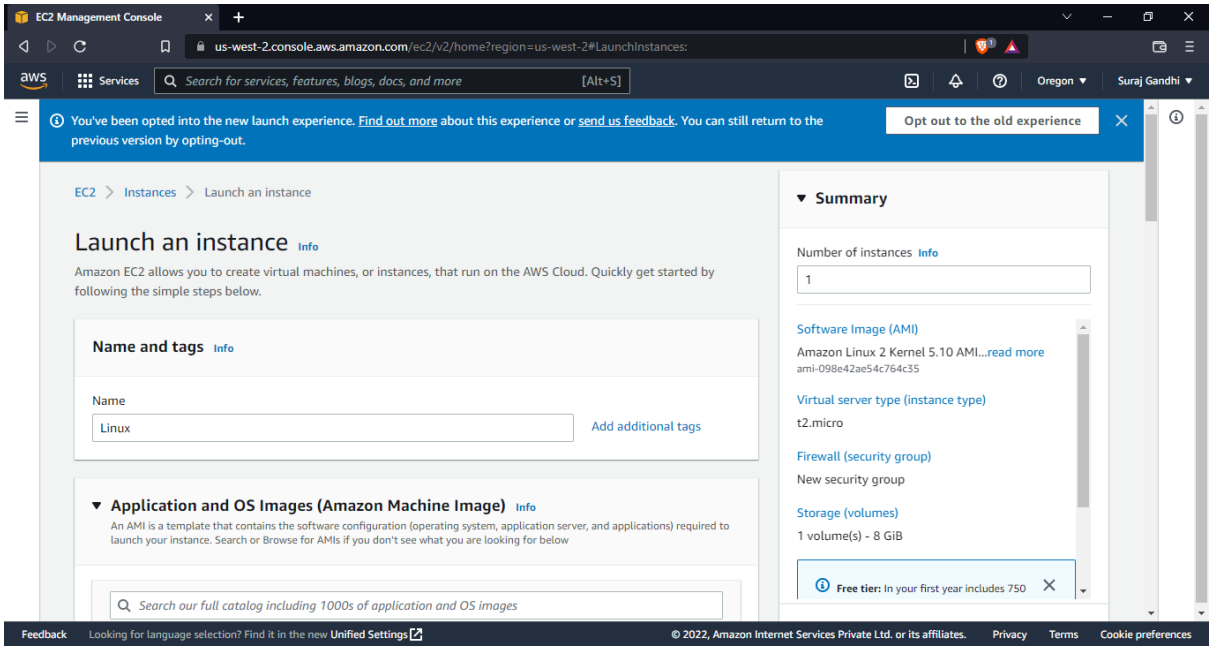
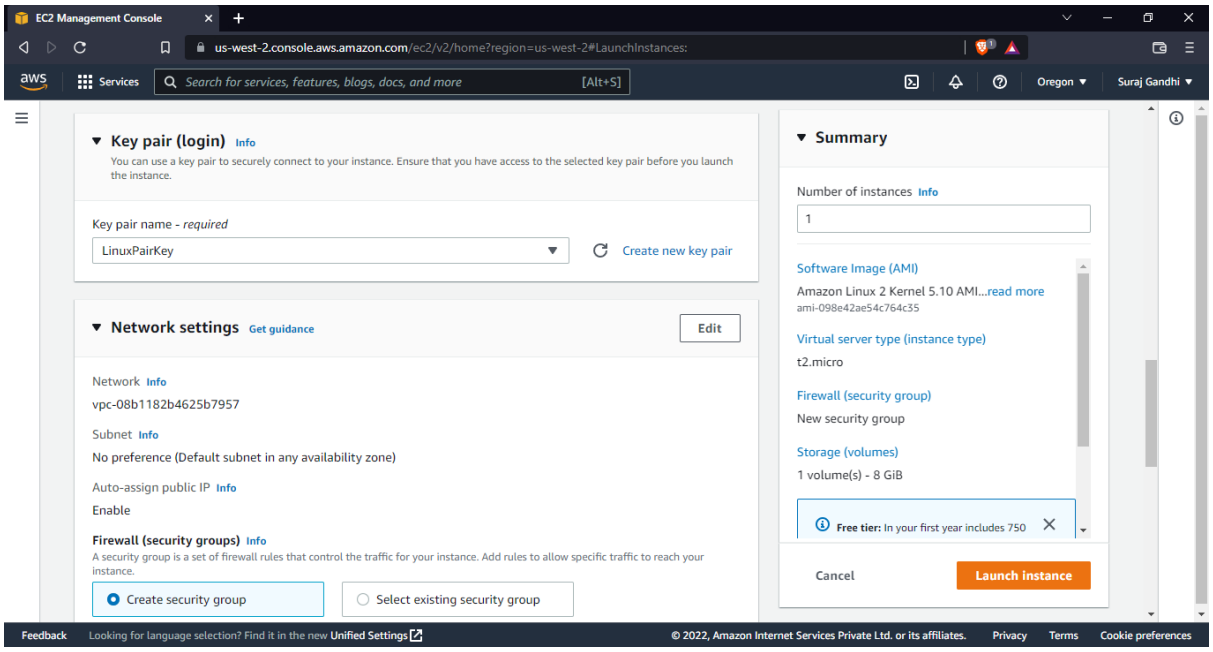
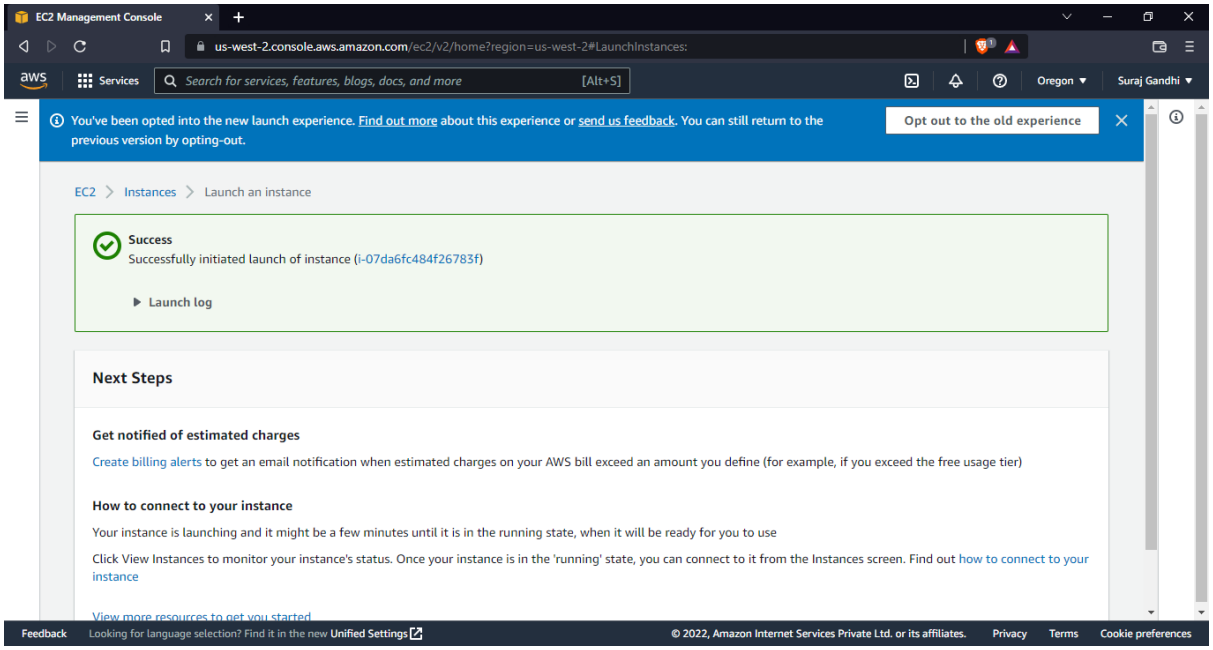
Course – MSc (DSBDA)






EC2 Management Console
us-west-2.console.aws.amazon.com/ec2/v2/home?region=us-west-2#LaunchInstances:
Services
Search for services, features, blogs, docs, and more
[Alt+S]
Oregon
Suraj Gandhi
You've been opted into the new launch experience. Find out more about this experience or send us feedback. You can still return to the previous version by opting-out.
Opt out to the old experience
EC2 > Instances > Launch an instance
Success
Successfully initiated launch of instance (i-07da6fc484f26783f)
Launch log
Next Steps
Get notified of estimated charges
Create billing alerts to get an email notification when estimated charges on your AWS bill exceed an amount you define (for example, if you exceed the free usage tier)
How to connect to your instance
Your instance is launching and it might be a few minutes until it is in the running state, when it will be ready for you to use
Click View Instances to monitor your instance's status. Once your instance is in the 'running' state, you can connect to it from the Instances screen. Find out how to connect to your instance
View more resources to get you started
Feedback
Looking for language selection? Find it in the new Unified Settings
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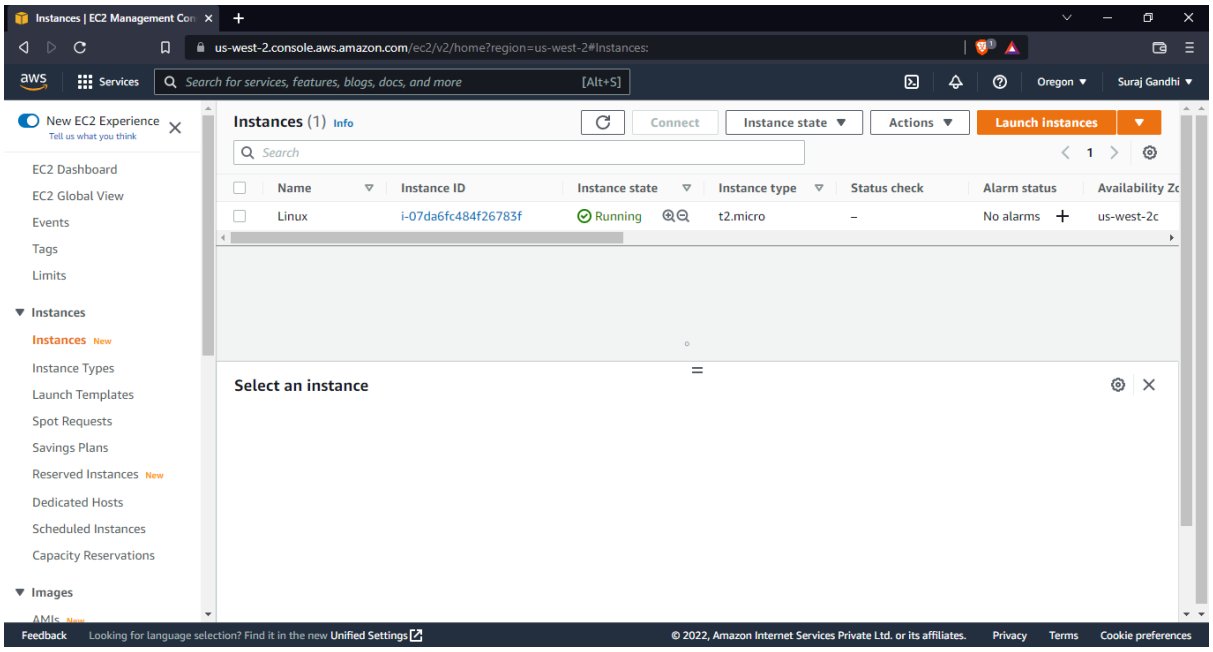
Instances | EC2 Management Con
us-west-2.console.aws.amazon.com/ec2/v2/home?region=us-west-2#Instances:
Services
Search for services, features, blogs, docs, and more
[Alt+S]
Oregon
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New EC2 Experience
Tell us what you think
EC2 Dashboard
EC2 Global 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 New
Instances (1) Info
Connect
Instance state
Actions
Launch instances
Search
Name
Instance ID
Instance state
Instance type
Status check
Alarm status
Availability Zo
Linux
i-07da6fc484f26783f
Running
t2.micro
–
No alarms
us-west-2c
Select an instance
Feedback
Looking for language selection? Find it in the new Unified Settings
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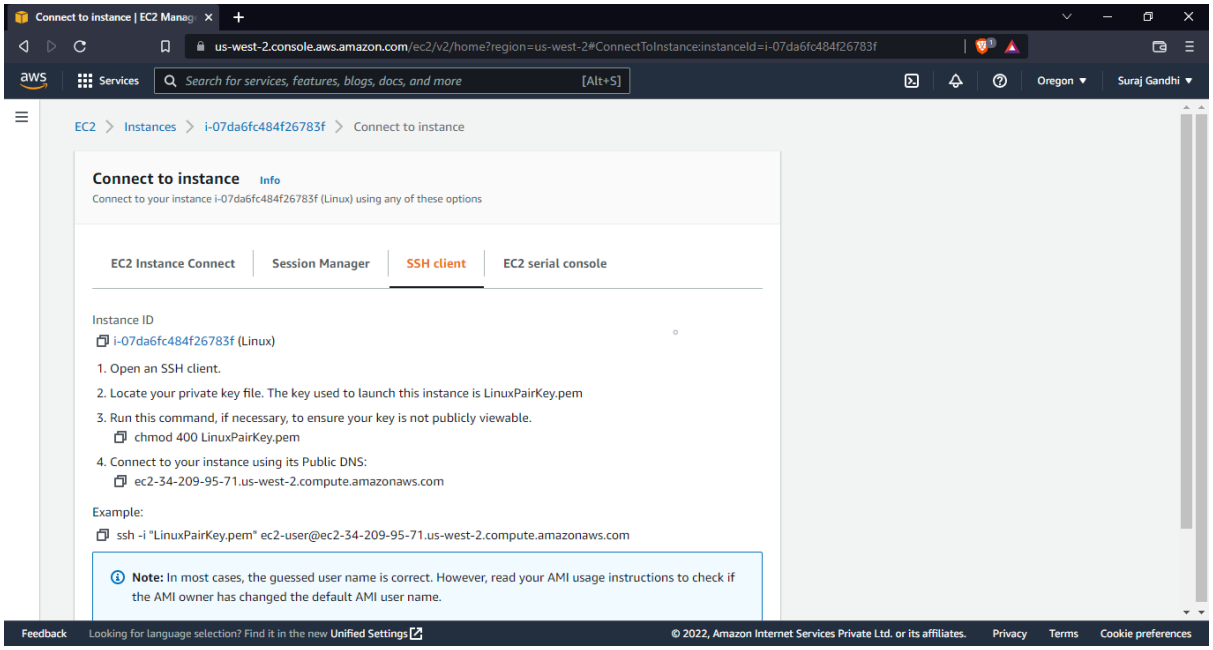
Connect to instance | EC2 Manag
us-west-2.console.aws.amazon.com/ec2/v2/home?region=us-west-2#ConnectToInstance:instanceId=i-07da6fc484f26783f
Services
Search for services, features, blogs, docs, and more
[Alt+S]
Oregon
Suraj Gandhi
EC2 > Instances > i-07da6fc484f26783f > Connect to instance
Connect to instance Info
Connect to your instance i-07da6fc484f26783f (Linux) using any of these options
EC2 Instance Connect
Session Manager
SSH client
EC2 serial console
Instance ID
i-07da6fc484f26783f (Linux)
1. Open an SSH client.
2. Locate your private key file. The key used to launch this instance is LinuxPairKey.pem
3. Run this command, if necessary, to ensure your key is not publicly viewable.
chmod 400 LinuxPairKey.pem
4. Connect to your instance using its Public DNS:
ec2-34-209-95-71.us-west-2.compute.amazonaws.com
Example:
ssh -i "LinuxPairKey.pem" ec2-user@ec2-34-209-95-71.us-west-2.compute.amazonaws.com
Note: In most cases, the guessed user name is correct. However, read your AMI usage instructions to check if the AMI owner has changed the default AMI user name.
Feedback
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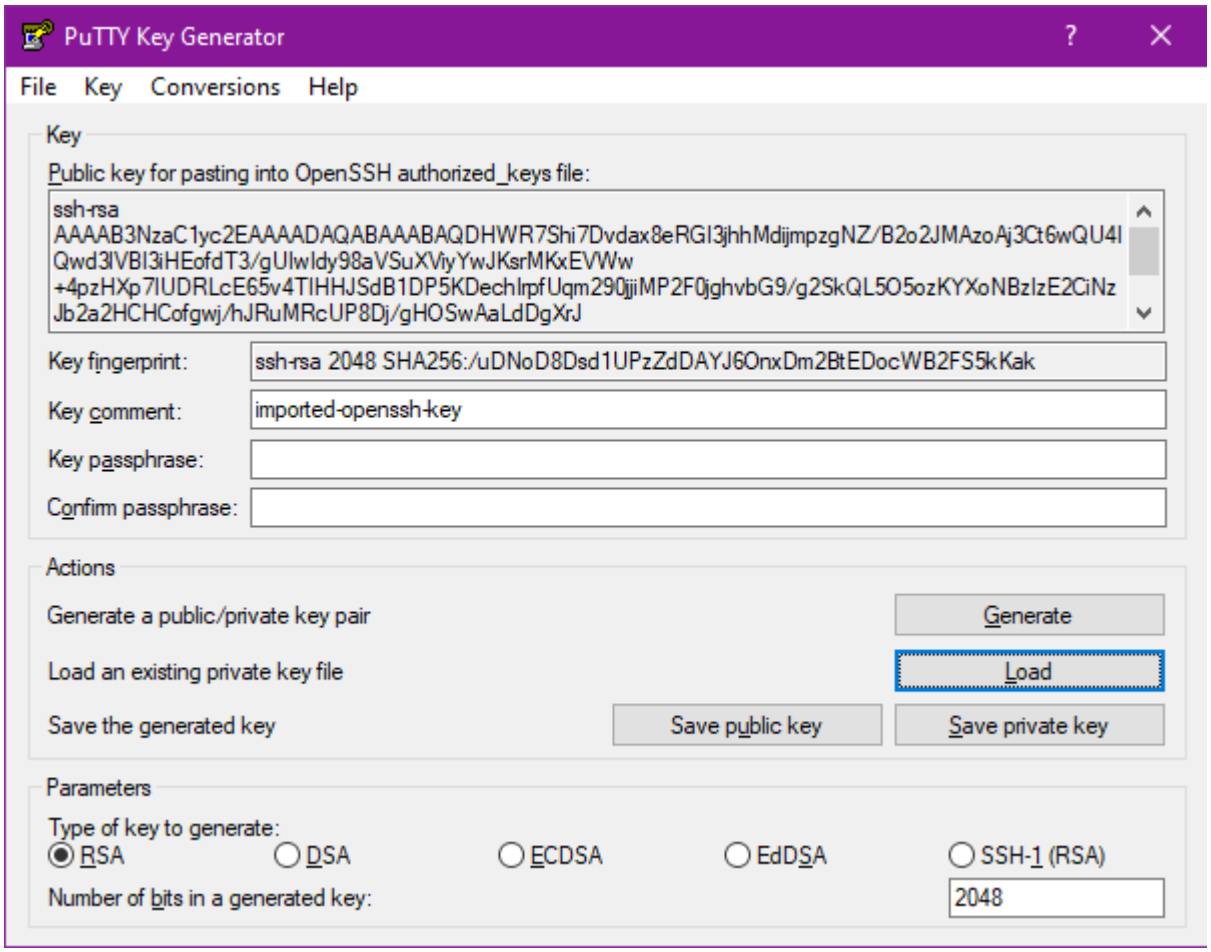
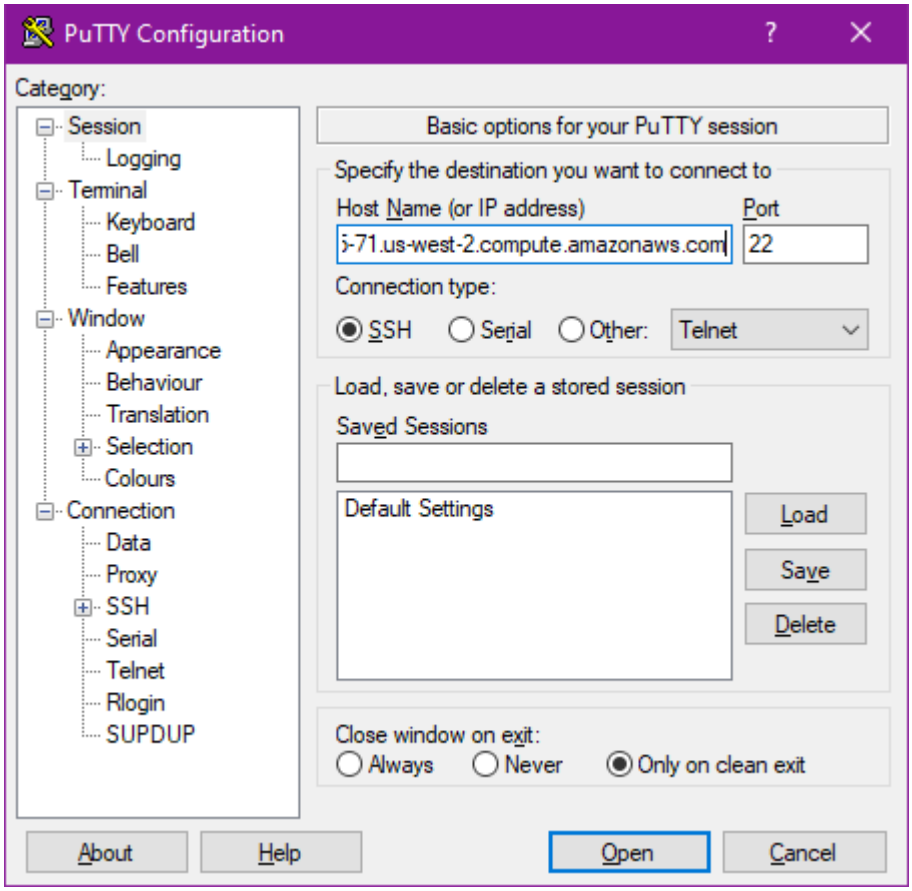
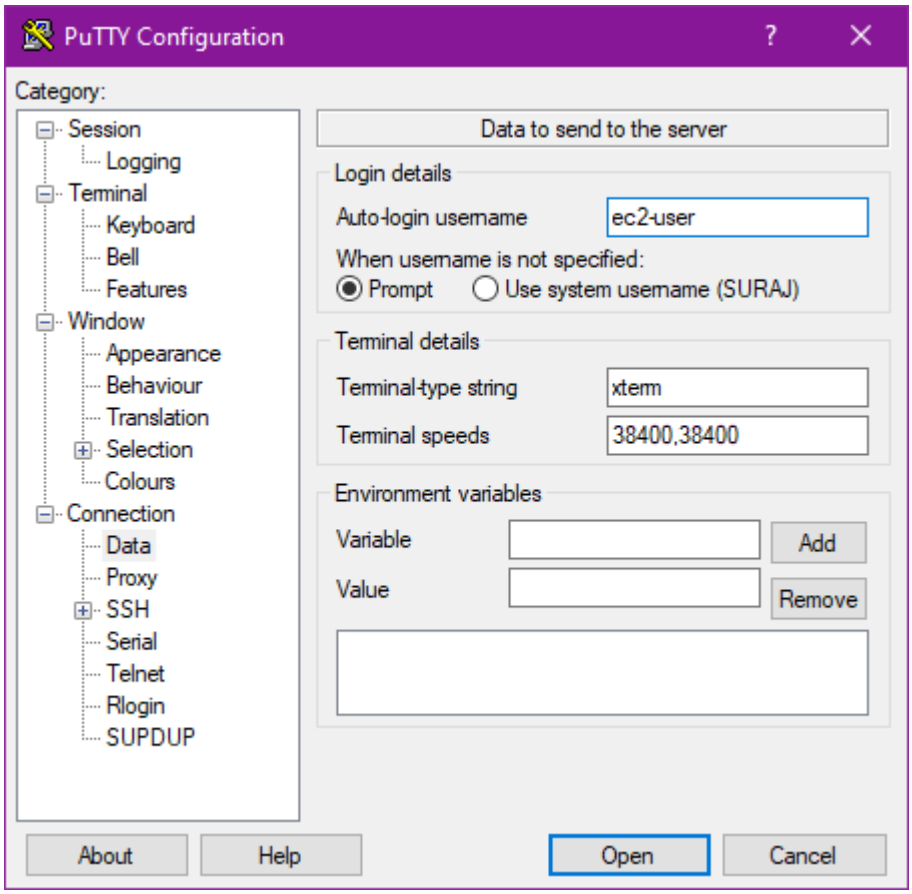
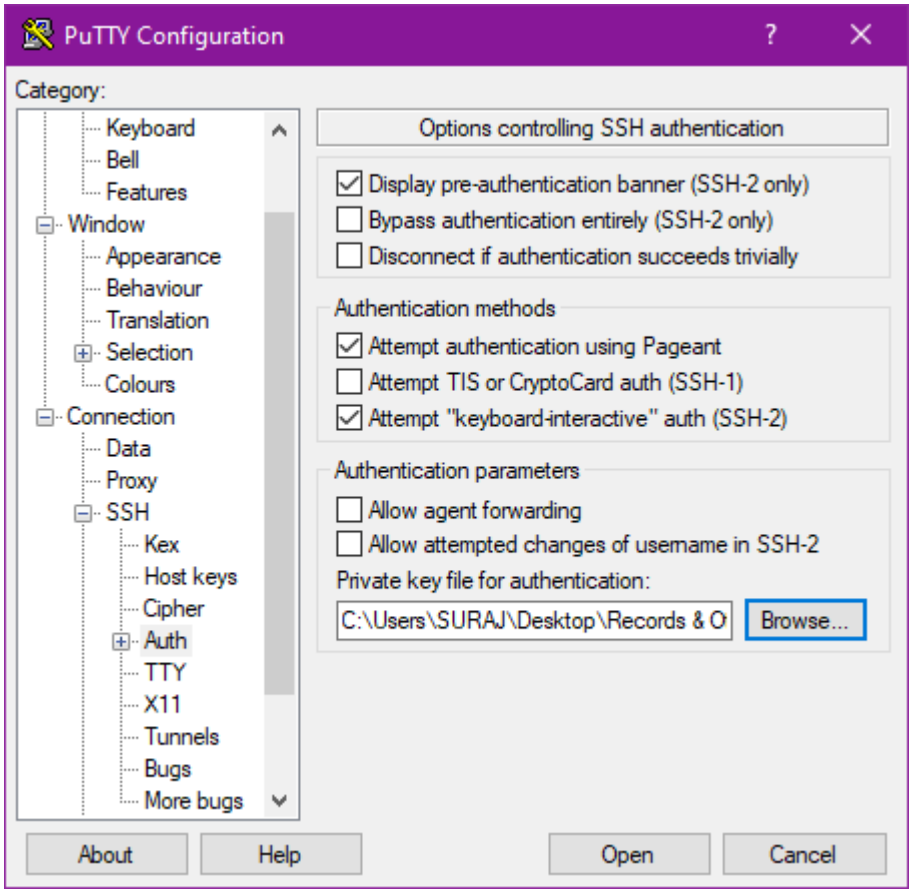
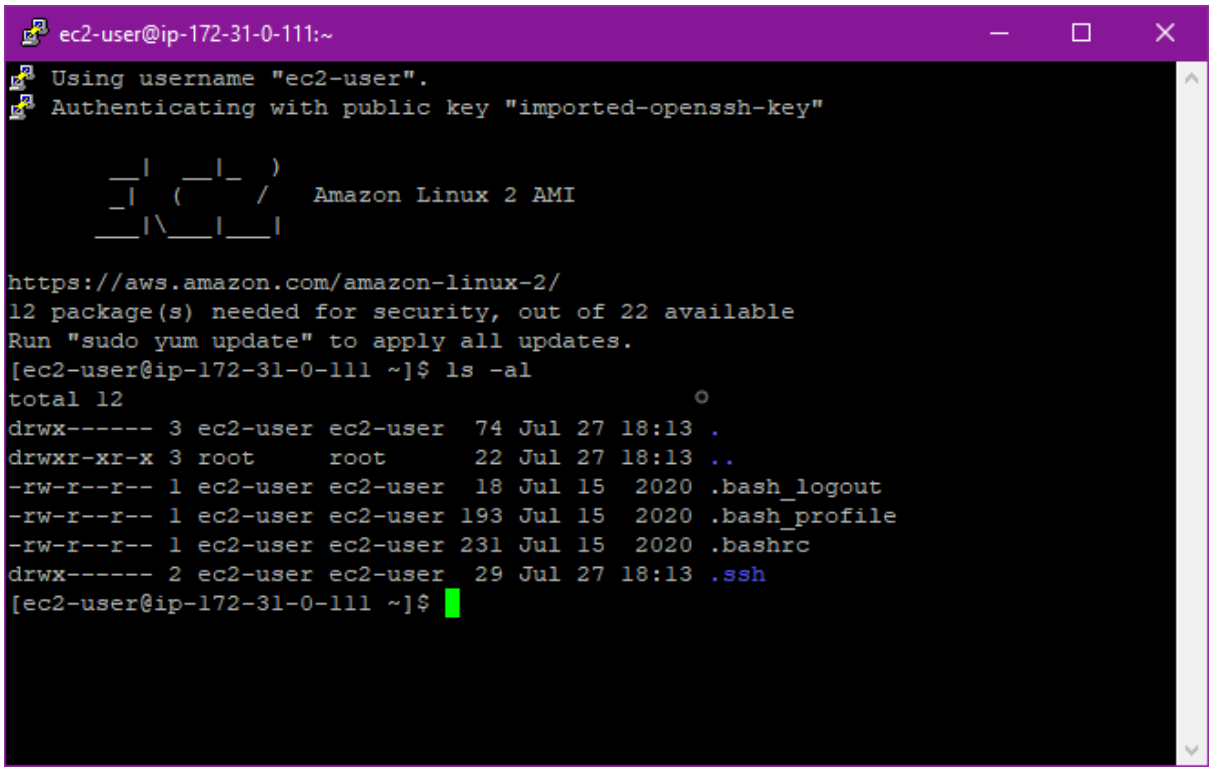

PuTTY Key Generator
File
Key
Conversions
Help
Key
Public key for pasting into OpenSSH authorized_keys file:
ssh-rsa
AAAAB3NzaC1yc2EAAAADAQABAAABAQDHWR7Shi7Dvdax8eRGI3jhhMdijmpzgNZ/B2o2JMAzoAj3Ct6wQU4l
Qwd3lVBI3iHEofdT3/gUlwIdy98aVSuXViyYwJKsrMKxEVWw
+4pzHXp7lUDRLcE65v4TIHHJSdB1DP5KDechlrpfUqm290jjiMP2F0jghvbG9/g2SkQL5O5ozKYXoNBzIzE2CiNz
Jb2a2HCHCofgwj/hJRuMRcUP8Dj/gHOSwAaLdDgXrJ
Key fingerprint:
ssh-rsa 2048 SHA256:/uDNoD8Dsd1UPzZdDAYJ6OnxDm2BtEDocWB2FS5kKak
Key comment:
imported-openssh-key
Key passphrase:
Confirm passphrase:
Actions
Generate a public/private key pair
Generate
Load an existing private key file
Load
Save the generated key
Save public key
Save private key
Parameters
Type of key to generate:
RSA
DSA
ECDSA
EdDSA
SSH-1 (RSA)
Number of bits in a generated key:
2048


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
-71.us-west-2.compute.amazonaws.com
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
Help
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 (SURAJ)
Terminal details
Terminal-type string
xterm
Terminal speeds
38400,38400
Environment variables
Variable
Value
Add
Remove
About
Help
Open
Cancel


PuTTY Configuration
Category:
Keyboard
Bell
Features
Window
Appearance
Behaviour
Translation
Selection
Colours
Connection
Data
Proxy
SSH
Kex
Host keys
Cipher
Auth
TTY
X11
Tunnels
Bugs
More bugs
Options controlling SSH authentication
Display pre-authentication banner (SSH-2 only)
Bypass authentication entirely (SSH-2 only)
Disconnect if authentication succeeds trivially
Authentication methods
Attempt authentication using Pageant
Attempt TIS or CryptoCard auth (SSH-1)
Attempt "keyboard-interactive" auth (SSH-2)
Authentication parameters
Allow agent forwarding
Allow attempted changes of username in SSH-2
Private key file for authentication:
C:\Users\SURAJ\Desktop\Records & O
Browse...
About
Help
Open
Cancel


ec2-user@ip-172-31-0-111:~
Using username "ec2-user".
Authenticating with public key "imported-openssh-key"
Amazon Linux 2 AMI
https://aws.amazon.com/amazon-linux-2/
12 package(s) needed for security, out of 22 available
Run "sudo yum update" to apply all updates.
[ec2-user@ip-172-31-0-111 ~]$ ls -al
total 12
drwx------ 3 ec2-user ec2-user 74 Jul 27 18:13 .
drwxr-xr-x 3 root   root   22 Jul 27 18:13 ..
-rw-r--r-- 1 ec2-user ec2-user 18 Jul 15 2020 .bash_logout
-rw-r--r-- 1 ec2-user ec2-user 193 Jul 15 2020 .bash_profile
-rw-r--r-- 1 ec2-user ec2-user 231 Jul 15 2020 .bashrc
drwx------ 2 ec2-user ec2-user 29 Jul 27 18:13 .ssh
[ec2-user@ip-172-31-0-111 ~]$