Tutorial 2 a): Create amazon linux ec2 instance | t2 micro & install Apache web server into it and Test it for webpage.

Name – Suraj Gandhi
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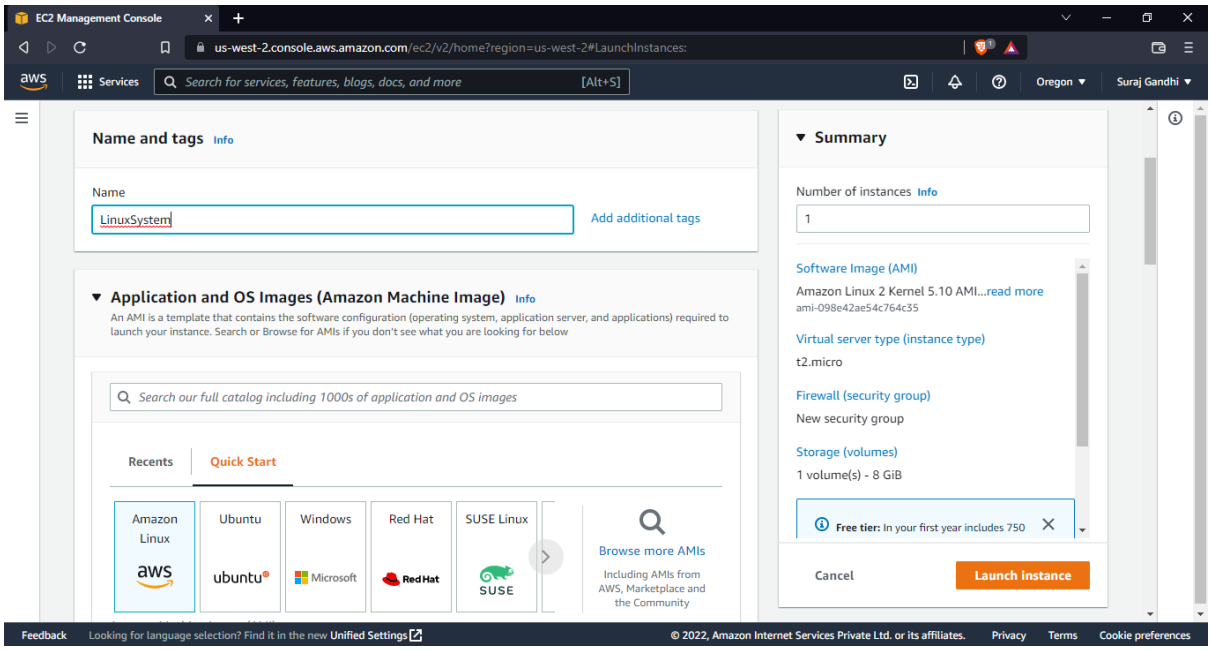
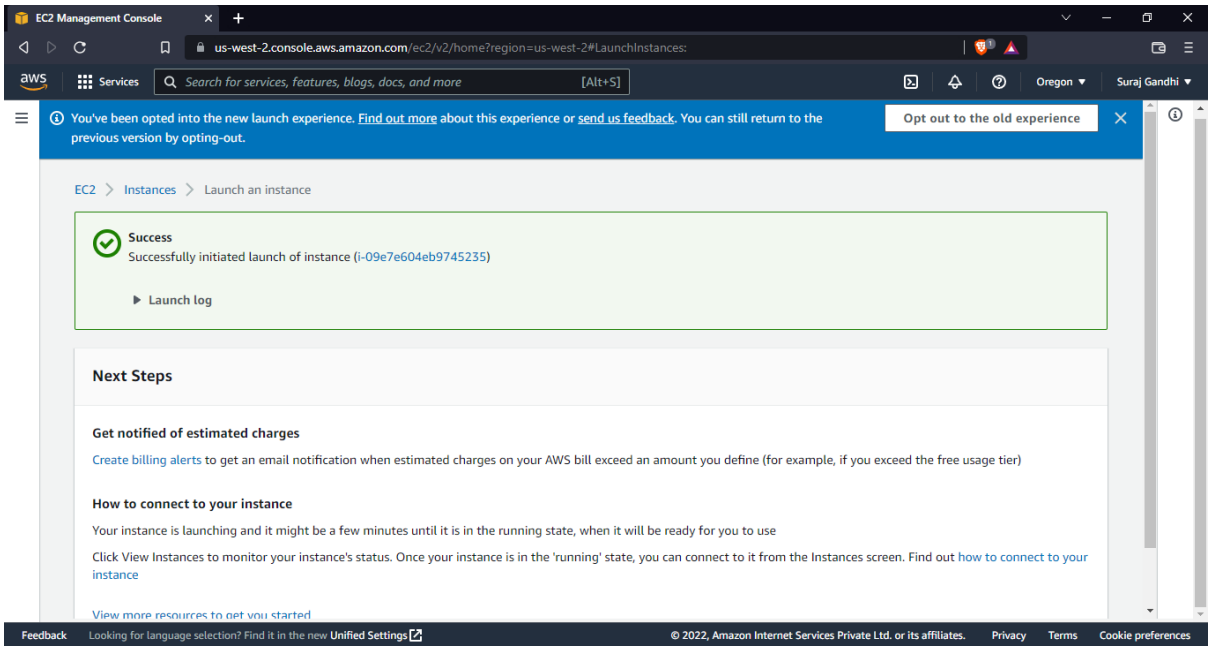
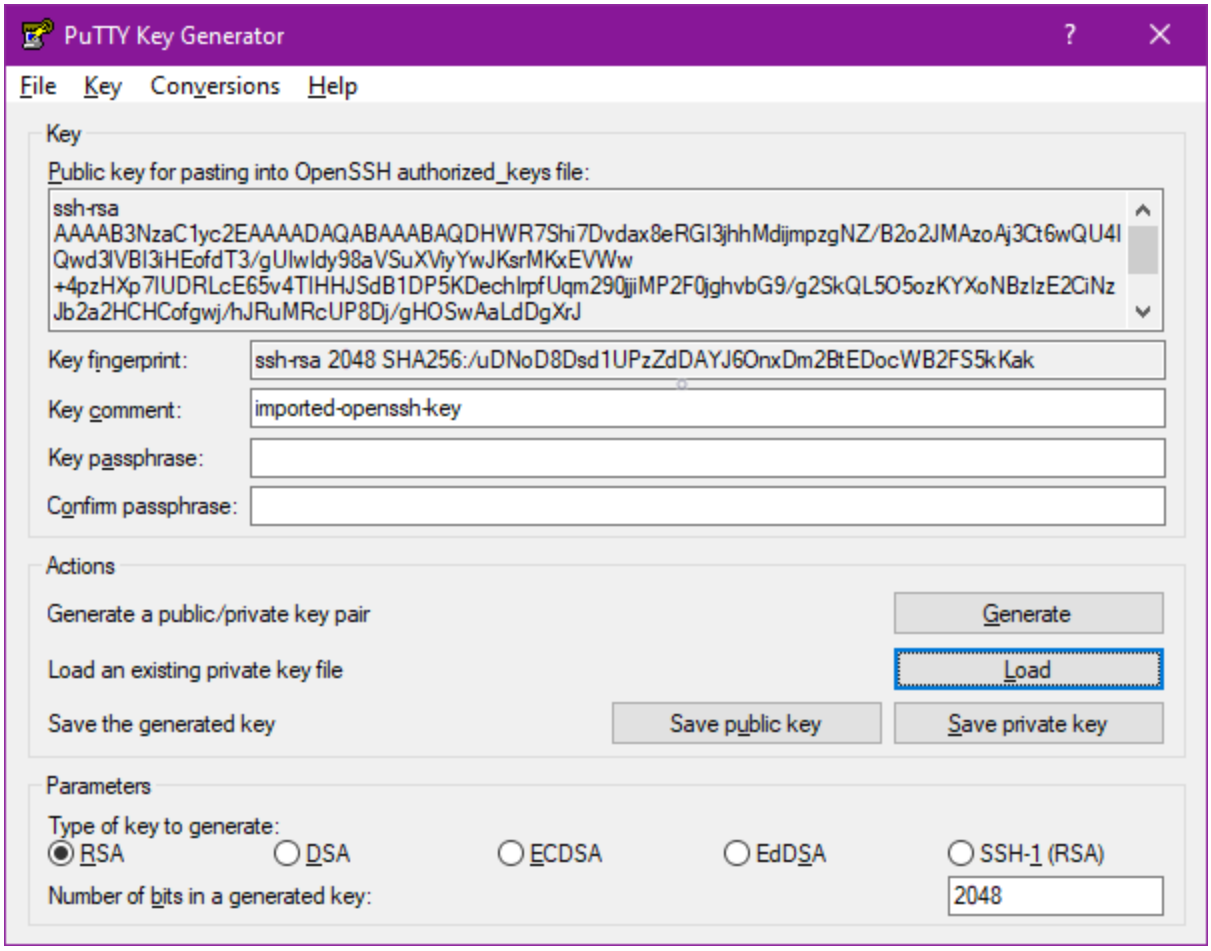
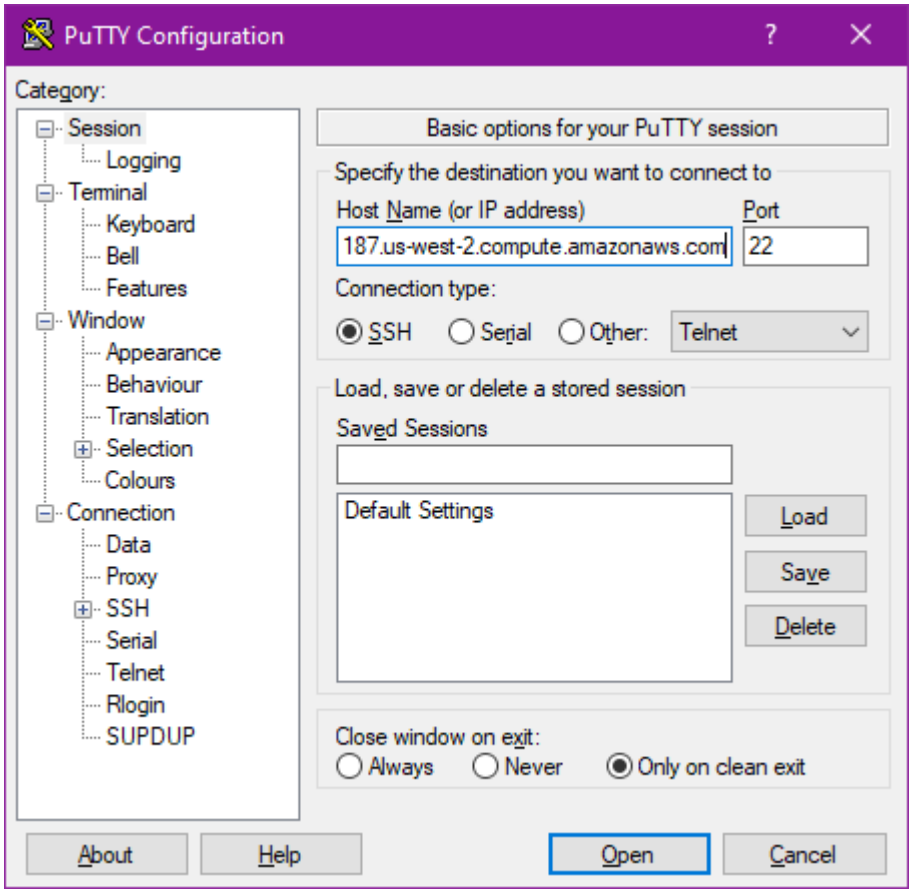
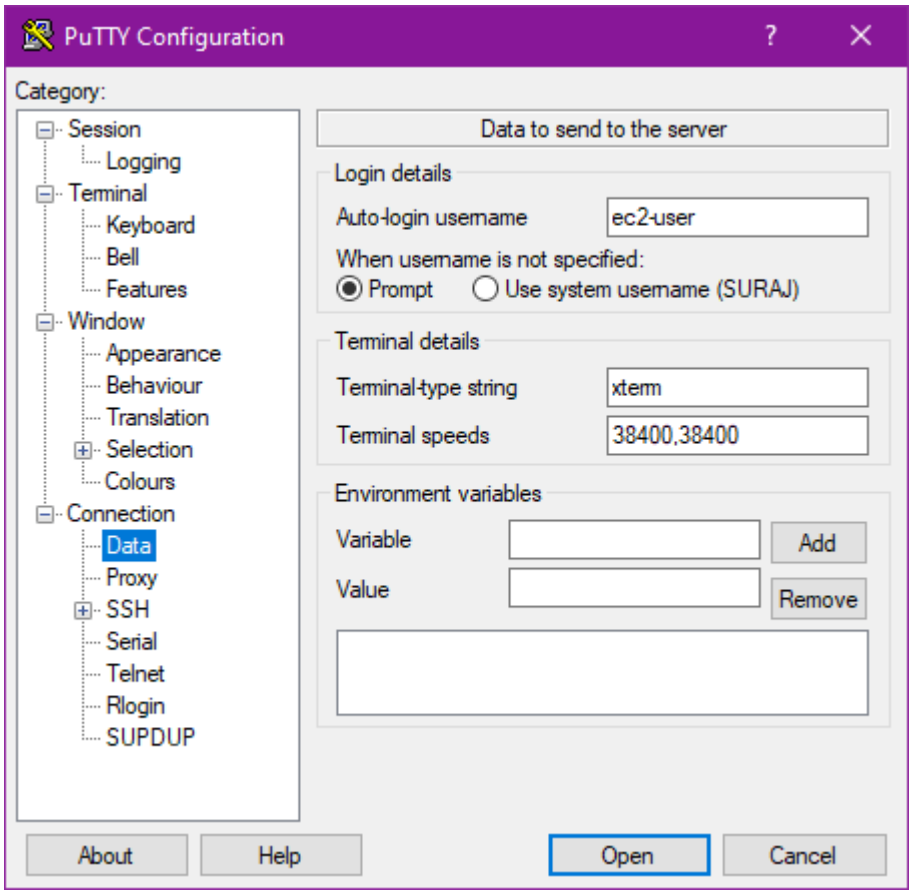
Course – MSc (DSBDA)

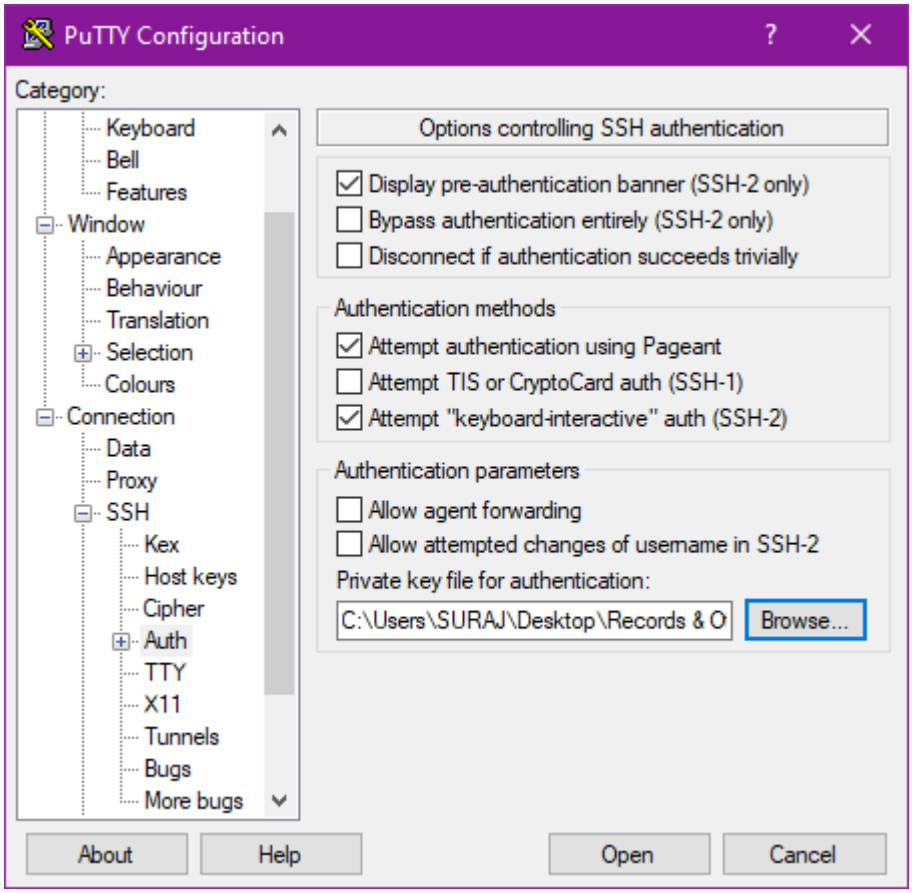


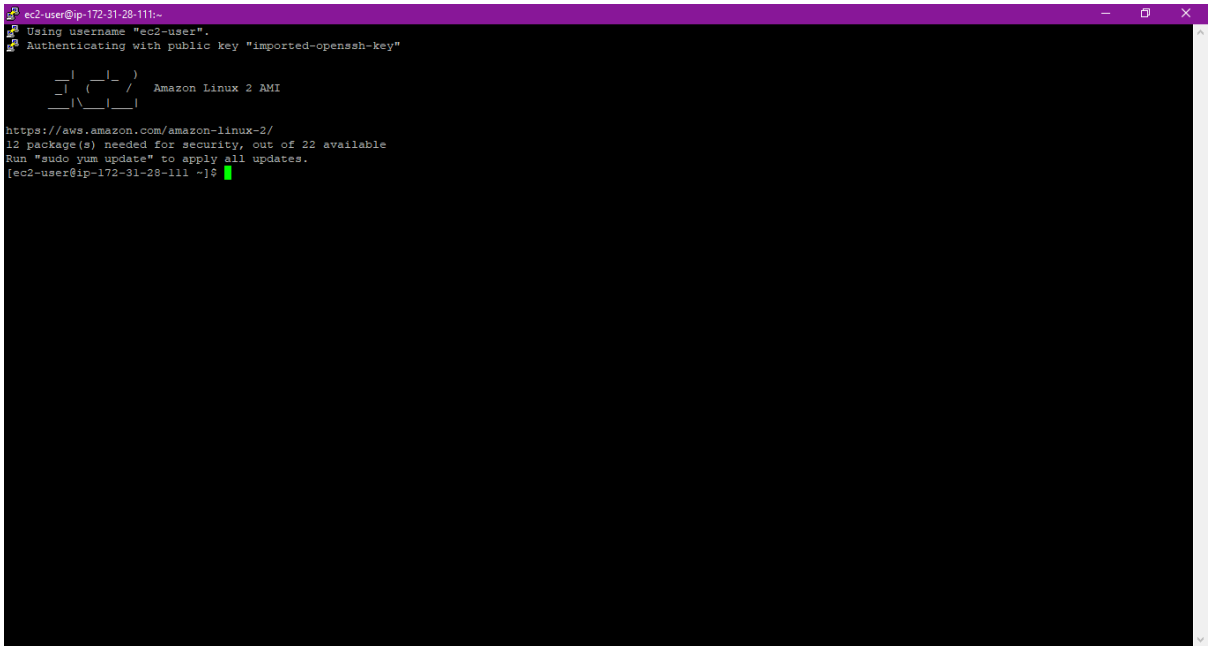


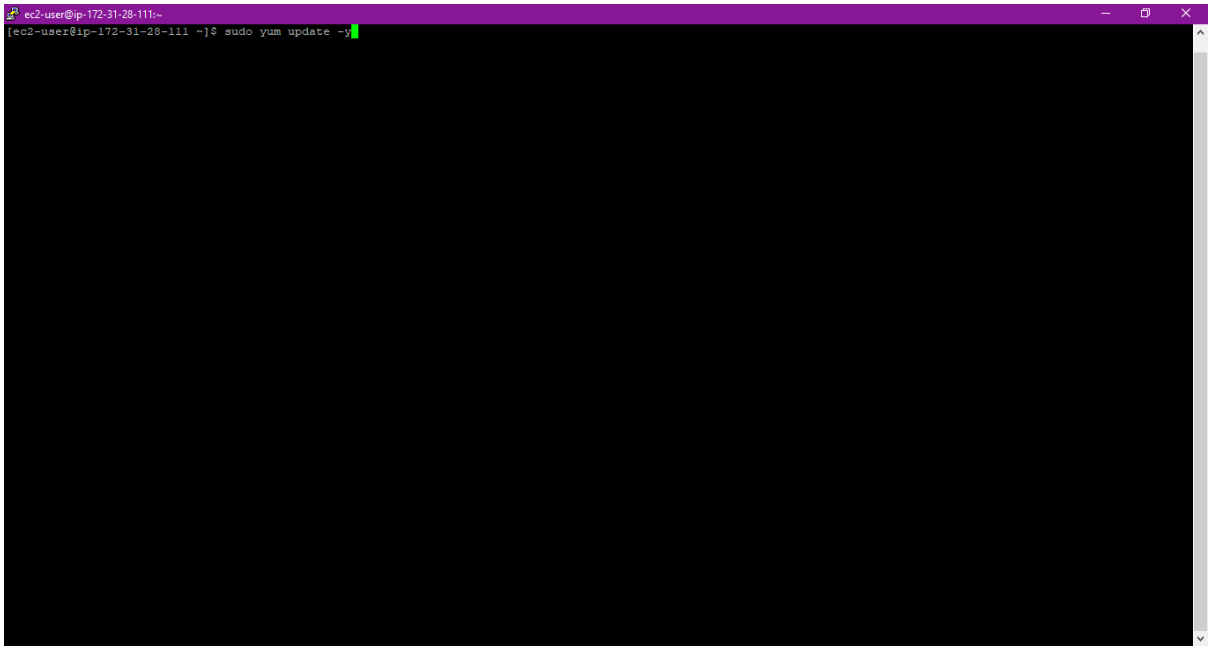

PuTTY Key Generator
File Key Conversions Help
Key
Public key for pasting into OpenSSH authorized_keys file:
ssh-rsa
AAAAB3NzaC1yc2EAAAADAQABAAABAQDHWR7Shi7Dvdax8eRGI3jhhMdijmpzgNZ/B2o2JMAzoAj3Ct6wQU4l
Qwd3lVBI3iHEofdT3/gUlwIdy98aVSuXViyYwJKsrMKxEVWw
+4pzHXp7IUDRLcE65v4TIHHJSdB1DP5KDechlrpfUqm290jjiMP2F0jghvbG9/g2SkQL5O5ozKYXoNBzIzE2CiNz
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

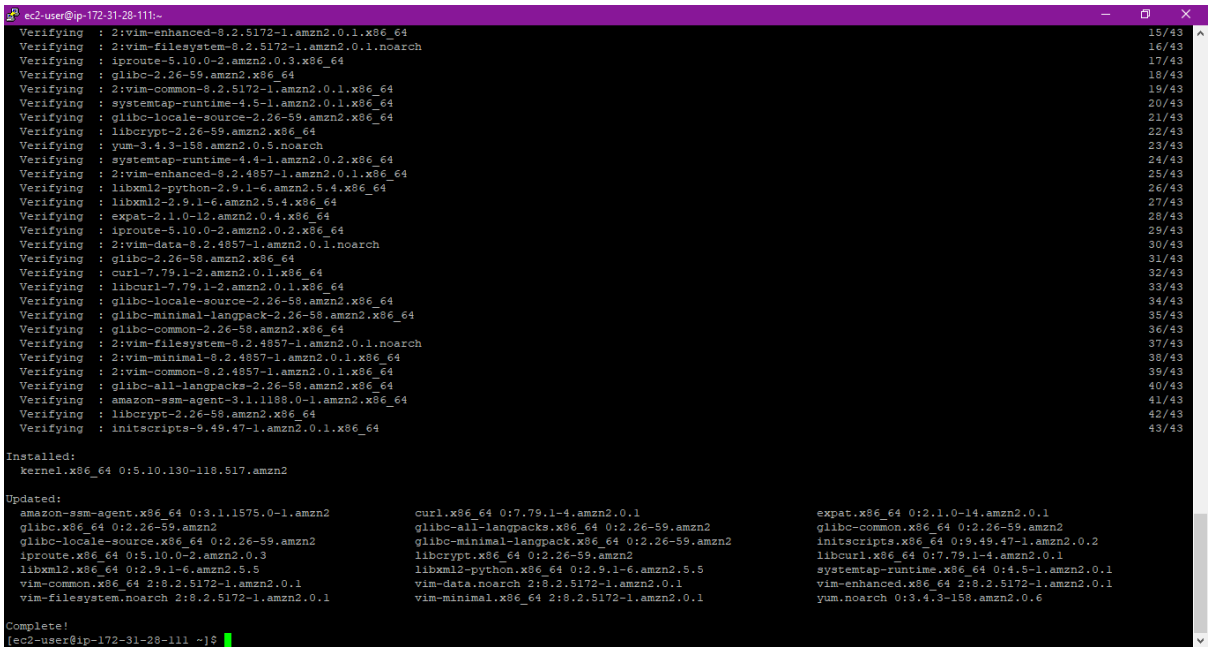

PuTTY Configuration
Category:
Session
Logging
Terminal
Keyboard
Bell
Features
Window
Appearance
Behaviour
Translation
Selection
Colours
Connection
Data
Proxy
SSH
Serial
Telnet
Rlogin
SUPDUP
Basic options for your PuTTY session
Specify the destination you want to connect to
Host Name (or IP address)
Port
187.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

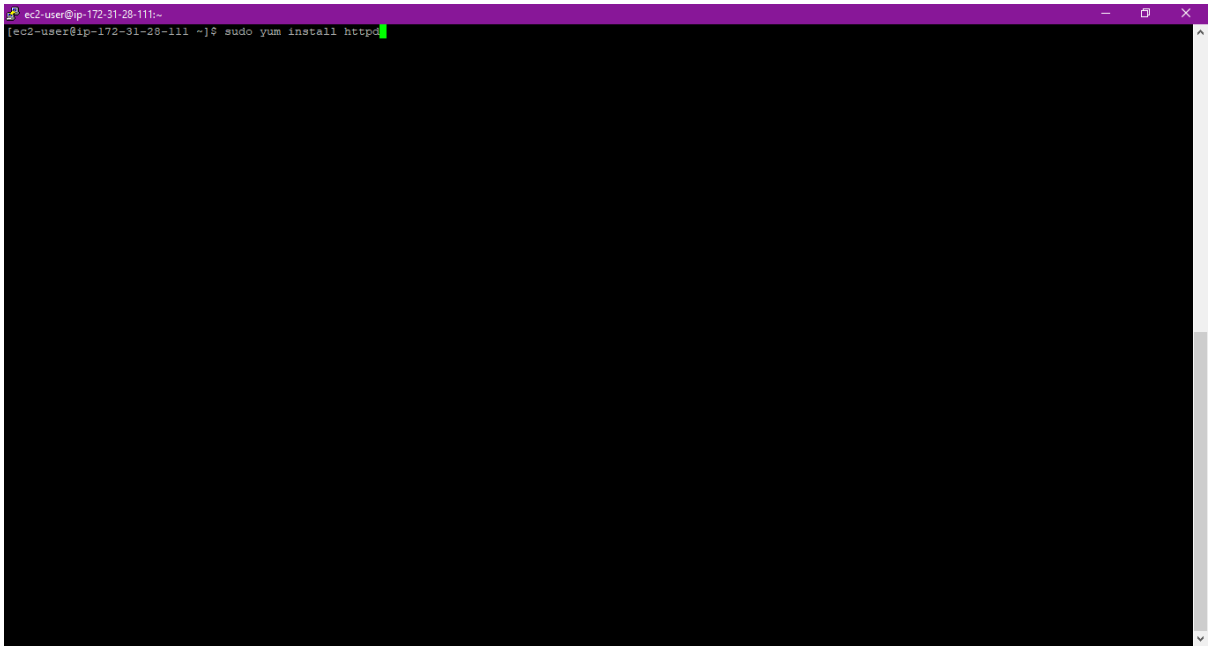

PuTTY Configuration
Category:
Session
Logging
Terminal
Keyboard
Bell
Features
Window
Appearance
Behaviour
Translation
Selection
Colours
Connection
Data
Proxy
SSH
Serial
Telnet
Rlogin
SUPDUP
Data to send to the server
Login details
Auto-login username
ec2-user
When username is not specified:
Prompt
Use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

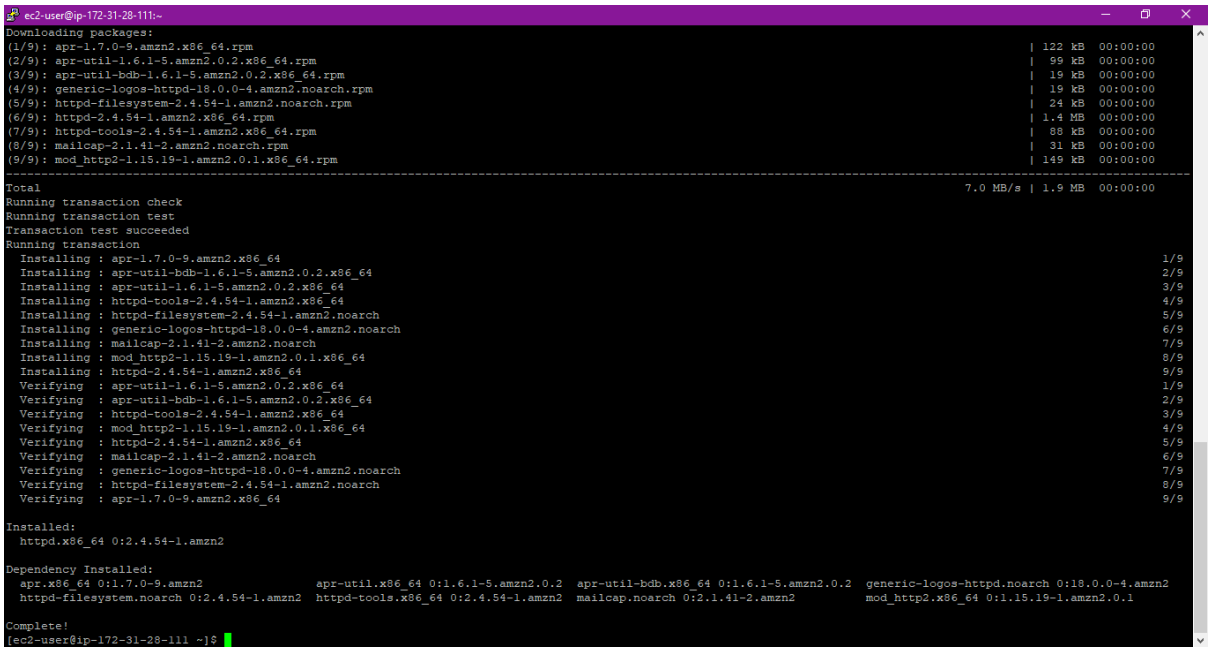

PuTTY Configuration
Category:
Keyboard
Bell
Features
Window
Appearance
Behaviour
Translation
Selection
Colours
Connection
Data
Proxy
SSH
Kex
Host keys
Cipher
Auth
TTY
X11
Tunnels
Bugs
More bugs
Options controlling SSH authentication
Display pre-authentication banner (SSH-2 only)
Bypass authentication 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

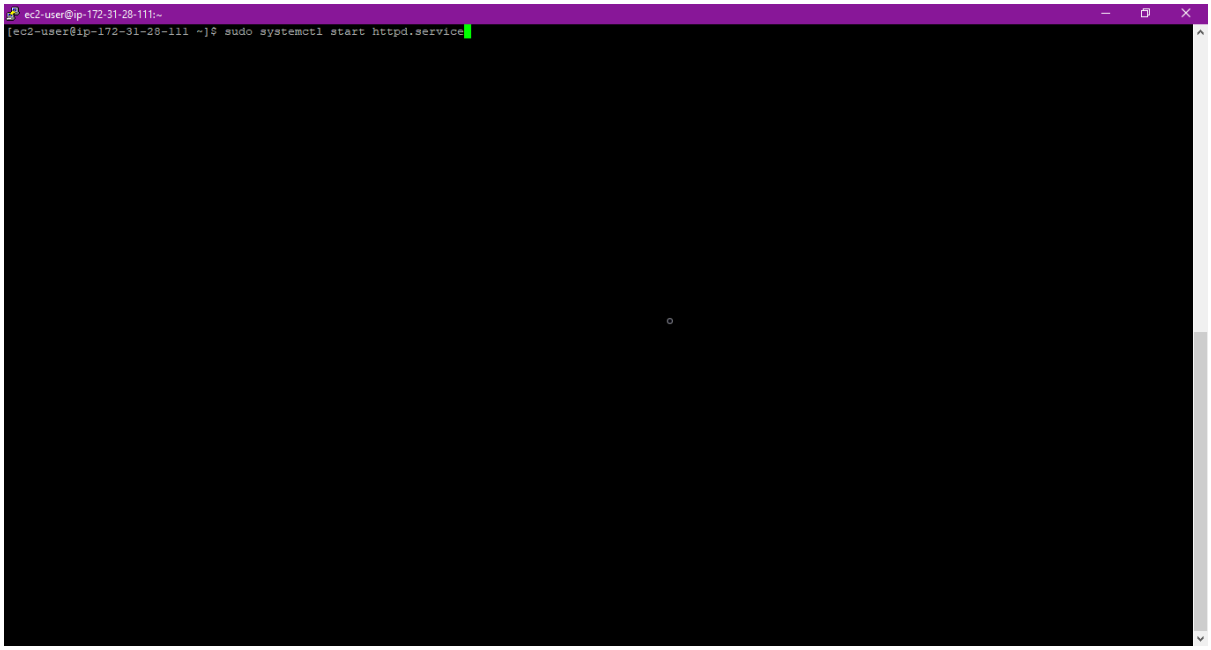

ec2-user@ip-172-31-28-111:~
Using username "ec2-user".
Authenticating with public key "imported-openssh-key"
Amazon Linux 2 AMI
https://aws.amazon.com/amazon-linux-2/
12 package(s) needed for security, out of 22 available
Run "sudo yum update" to apply all updates.
[ec2-user@ip-172-31-28-111 ~]$

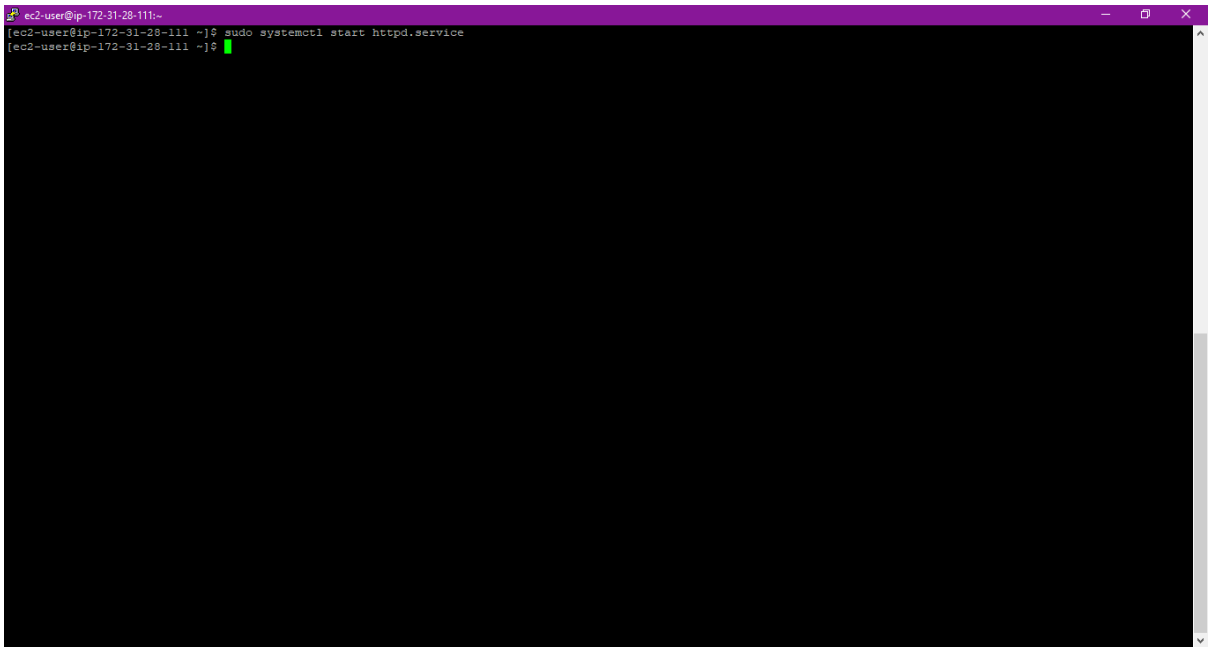

ec2-user@ip-172-31-28-111:~
[ec2-user@ip-172-31-28-111 ~]$ sudo yum update -y

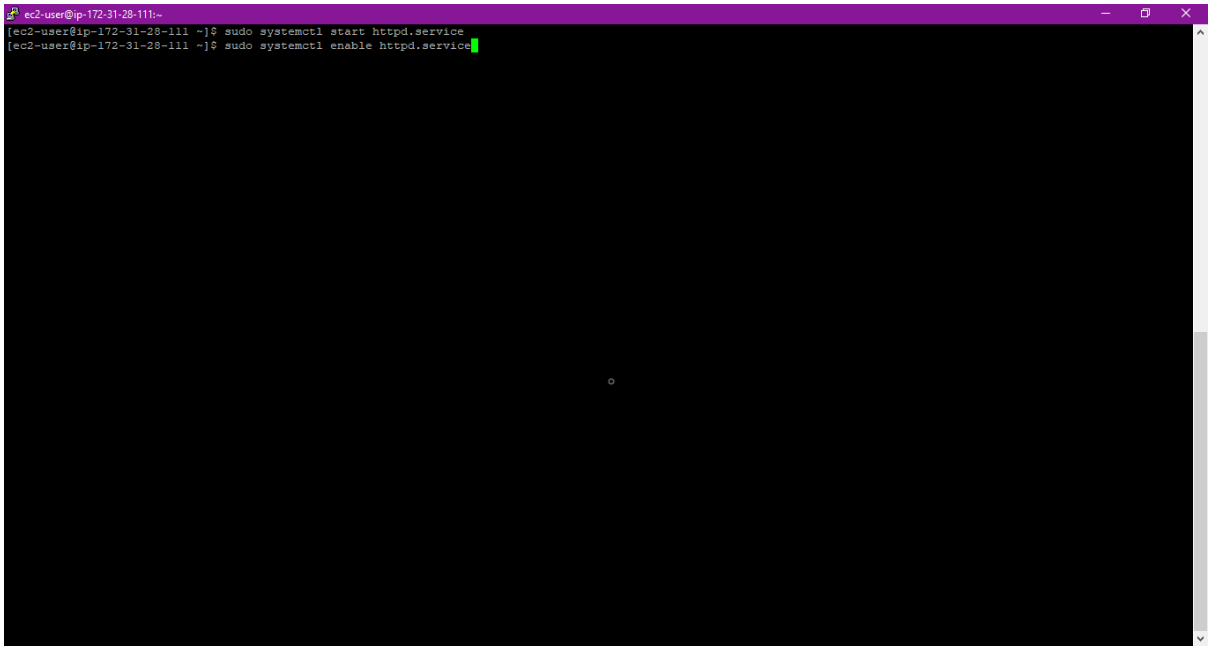

ec2-user@ip-172-31-28-111:~
Verifying : 2:vim-enhanced-8.2.5172-1.amzn2.0.1.x86_64 15/43
Verifying : 2:vim-filesystem-8.2.5172-1.amzn2.0.1.noarch 16/43
Verifying : iproute-5.10.0-2.amzn2.0.3.x86_64 17/43
Verifying : glibc-2.26-59.amzn2.x86_64 18/43
Verifying : 2:vim-common-8.2.5172-1.amzn2.0.1.x86_64 19/43
Verifying : systemtap-runtime-4.5-1.amzn2.0.1.x86_64 20/43
Verifying : glibc-locale-source-2.26-59.amzn2.x86_64 21/43
Verifying : libcrypt-2.26-59.amzn2.x86_64 22/43
Verifying : yum-3.4.3-158.amzn2.0.5.noarch 23/43
Verifying : systemtap-runtime-4.4-1.amzn2.0.2.x86_64 24/43
Verifying : 2:vim-enhanced-8.2.4857-1.amzn2.0.1.x86_64 25/43
Verifying : libxml2-python-2.9.1-6.amzn2.5.4.x86_64 26/43
Verifying : libxml2-2.9.1-6.amzn2.5.4.x86_64 27/43
Verifying : expat-2.1.0-12.amzn2.0.4.x86_64 28/43
Verifying : iproute-5.10.0-2.amzn2.0.2.x86_64 29/43
Verifying : 2:vim-data-8.2.4857-1.amzn2.0.1.noarch 30/43
Verifying : glibc-2.26-58.amzn2.x86_64 31/43
Verifying : curl-7.79.1-2.amzn2.0.1.x86_64 32/43
Verifying : libcurl-7.79.1-2.amzn2.0.1.x86_64 33/43
Verifying : glibc-locale-source-2.26-58.amzn2.x86_64 34/43
Verifying : glibc-minimal-langpack-2.26-58.amzn2.x86_64 35/43
Verifying : glibc-common-2.26-58.amzn2.x86_64 36/43
Verifying : 2:vim-filesystem-8.2.4857-1.amzn2.0.1.noarch 37/43
Verifying : 2:vim-minimal-8.2.4857-1.amzn2.0.1.x86_64 38/43
Verifying : 2:vim-common-8.2.4857-1.amzn2.0.1.x86_64 39/43
Verifying : glibc-all-langpacks-2.26-58.amzn2.x86_64 40/43
Verifying : amazon-ssm-agent-3.1.1188.0-1.amzn2.x86_64 41/43
Verifying : libcrypt-2.26-58.amzn2.x86_64 42/43
Verifying : initscripts-9.49.47-1.amzn2.0.1.x86_64 43/43
Installed:
kernel.x86_64 0:5.10.130-118.517.amzn2
Updated:
amazon-ssm-agent.x86_64 0:3.1.1575.0-1.amzn2 curl.x86_64 0:7.79.1-4.amzn2.0.1 expat.x86_64 0:2.1.0-14.amzn2.0.1
glibc.x86_64 0:2.26-59.amzn2 glibc-all-langpacks.x86_64 0:2.26-59.amzn2 glibc-common.x86_64 0:2.26-59.amzn2
glibc-locale-source.x86_64 0:2.26-59.amzn2 glibc-minimal-langpack.x86_64 0:2.26-59.amzn2 initscripts.x86_64 0:9.49.47-1.amzn2.0.2
iproute.x86_64 0:5.10.0-2.amzn2.0.3 libcrypt.x86_64 0:2.26-59.amzn2 libcurl.x86_64 0:7.79.1-4.amzn2.0.1
libxml2.x86_64 0:2.9.1-6.amzn2.5.5 libxml2-python.x86_64 0:2.9.1-6.amzn2.5.5 systemtap-runtime.x86_64 0:4.5-1.amzn2.0.1
vim-common.x86_64 2:8.2.5172-1.amzn2.0.1 vim-data.noarch 2:8.2.5172-1.amzn2.0.1 vim-enhanced.x86_64 2:8.2.5172-1.amzn2.0.1
vim-filesystem.noarch 2:8.2.5172-1.amzn2.0.1 vim-minimal.x86_64 2:8.2.5172-1.amzn2.0.1 yum.noarch 0:3.4.3-158.amzn2.0.6
Complete!
[ec2-user@ip-172-31-28-111 ~]$

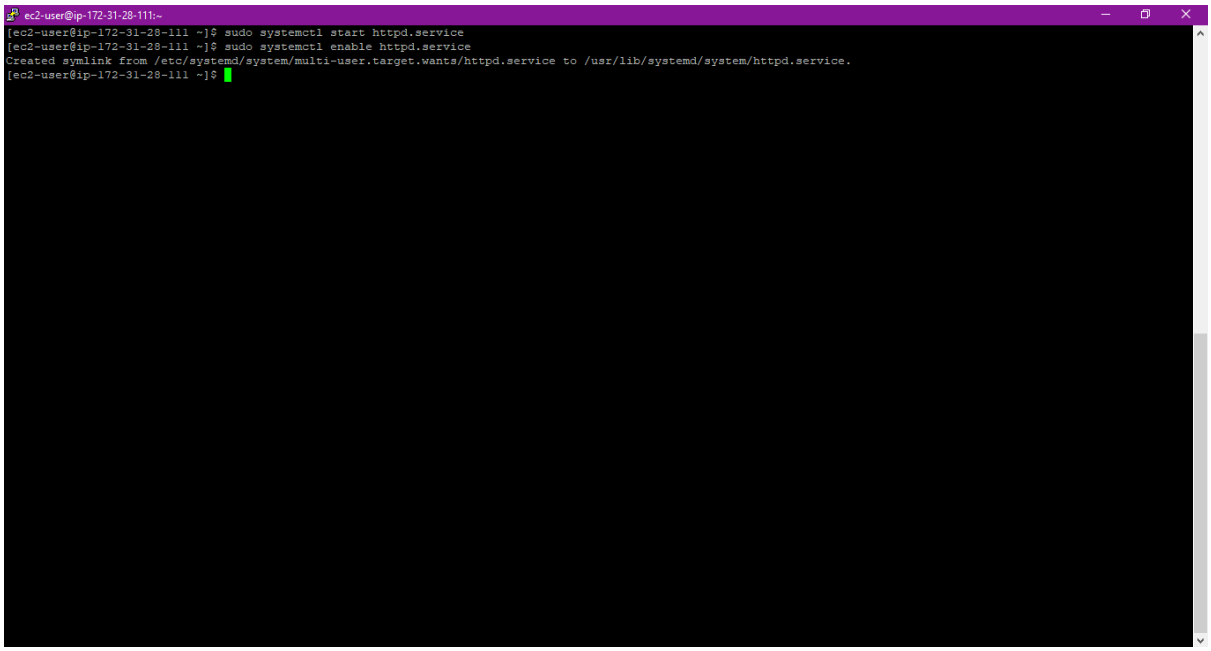

ec2-user@ip-172-31-28-111:~
[ec2-user@ip-172-31-28-111 ~]$ sudo yum install httpd

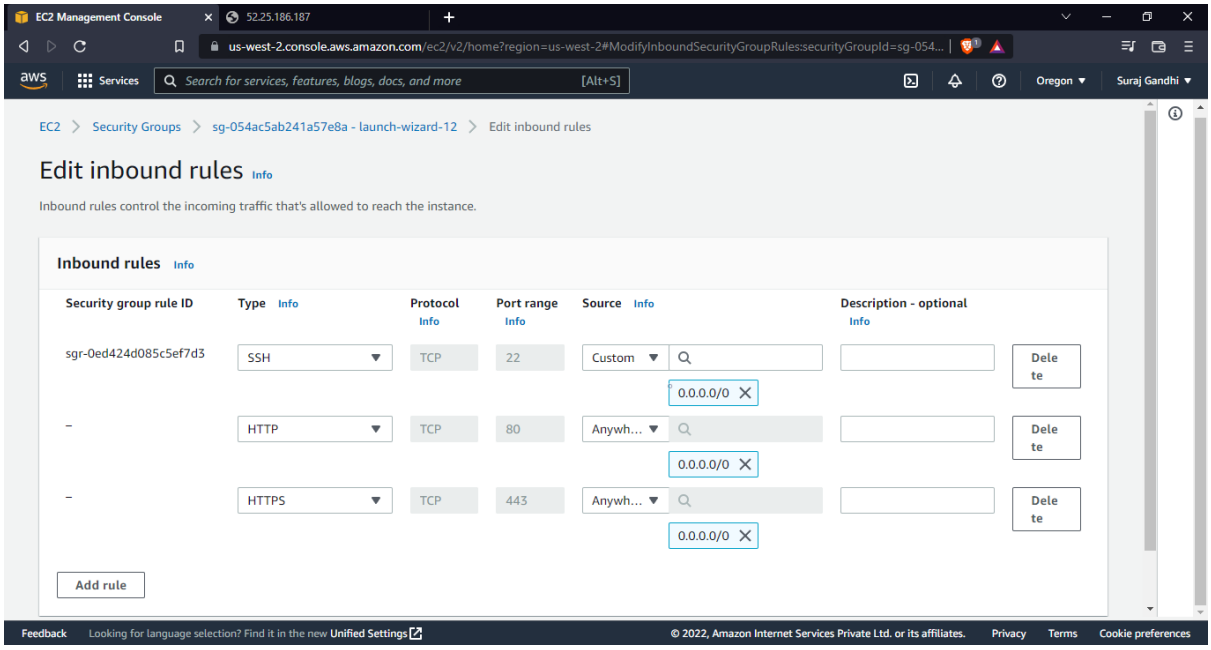

ec2-user@ip-172-31-28-111:~
Downloading packages:
(1/9): apr-1.7.0-9.amzn2.x86_64.rpm | 122 kB 00:00:00
(2/9): apr-util-1.6.1-5.amzn2.0.2.x86_64.rpm | 99 kB 00:00:00
(3/9): apr-util-bdb-1.6.1-5.amzn2.0.2.x86_64.rpm | 19 kB 00:00:00
(4/9): generic-logos-httpd-18.0.0-4.amzn2.noarch.rpm | 19 kB 00:00:00
(5/9): httpd-filesystem-2.4.54-1.amzn2.noarch.rpm | 24 kB 00:00:00
(6/9): httpd-2.4.54-1.amzn2.x86_64.rpm | 1.4 MB 00:00:00
(7/9): httpd-tools-2.4.54-1.amzn2.x86_64.rpm | 88 kB 00:00:00
(8/9): mailcap-2.1.41-2.amzn2.noarch.rpm | 31 kB 00:00:00
(9/9): mod_http2-1.15.19-1.amzn2.0.1.x86_64.rpm | 149 kB 00:00:00
Total 7.0 MB/s | 1.9 MB 00:00:00
Running transaction check
Running transaction test
Transaction test succeeded
Running transaction
Installing : apr-1.7.0-9.amzn2.x86_64 1/9
Installing : apr-util-bdb-1.6.1-5.amzn2.0.2.x86_64 2/9
Installing : apr-util-1.6.1-5.amzn2.0.2.x86_64 3/9
Installing : httpd-tools-2.4.54-1.amzn2.x86_64 4/9
Installing : httpd-filesystem-2.4.54-1.amzn2.noarch 5/9
Installing : generic-logos-httpd-18.0.0-4.amzn2.noarch 6/9
Installing : mailcap-2.1.41-2.amzn2.noarch 7/9
Installing : mod_http2-1.15.19-1.amzn2.0.1.x86_64 8/9
Installing : httpd-2.4.54-1.amzn2.x86_64 9/9
Verifying : apr-util-1.6.1-5.amzn2.0.2.x86_64 1/9
Verifying : apr-util-bdb-1.6.1-5.amzn2.0.2.x86_64 2/9
Verifying : httpd-tools-2.4.54-1.amzn2.x86_64 3/9
Verifying : mod_http2-1.15.19-1.amzn2.0.1.x86_64 4/9
Verifying : httpd-2.4.54-1.amzn2.x86_64 5/9
Verifying : mailcap-2.1.41-2.amzn2.noarch 6/9
Verifying : generic-logos-httpd-18.0.0-4.amzn2.noarch 7/9
Verifying : httpd-filesystem-2.4.54-1.amzn2.noarch 8/9
Verifying : apr-1.7.0-9.amzn2.x86_64 9/9
Installed:
httpd.x86_64 0:2.4.54-1.amzn2
Dependency Installed:
apr.x86_64 0:1.7.0-9.amzn2 apr-util.x86_64 0:1.6.1-5.amzn2.0.2 apr-util-bdb.x86_64 0:1.6.1-5.amzn2.0.2 generic-logos-httpd.noarch 0:18.0.0-4.amzn2
httpd-filesystem.noarch 0:2.4.54-1.amzn2 httpd-tools.x86_64 0:2.4.54-1.amzn2 mailcap.noarch 0:2.1.41-2.amzn2 mod_http2.x86_64 0:1.15.19-1.amzn2.0.1
Complete!
[ec2-user@ip-172-31-28-111 ~]$

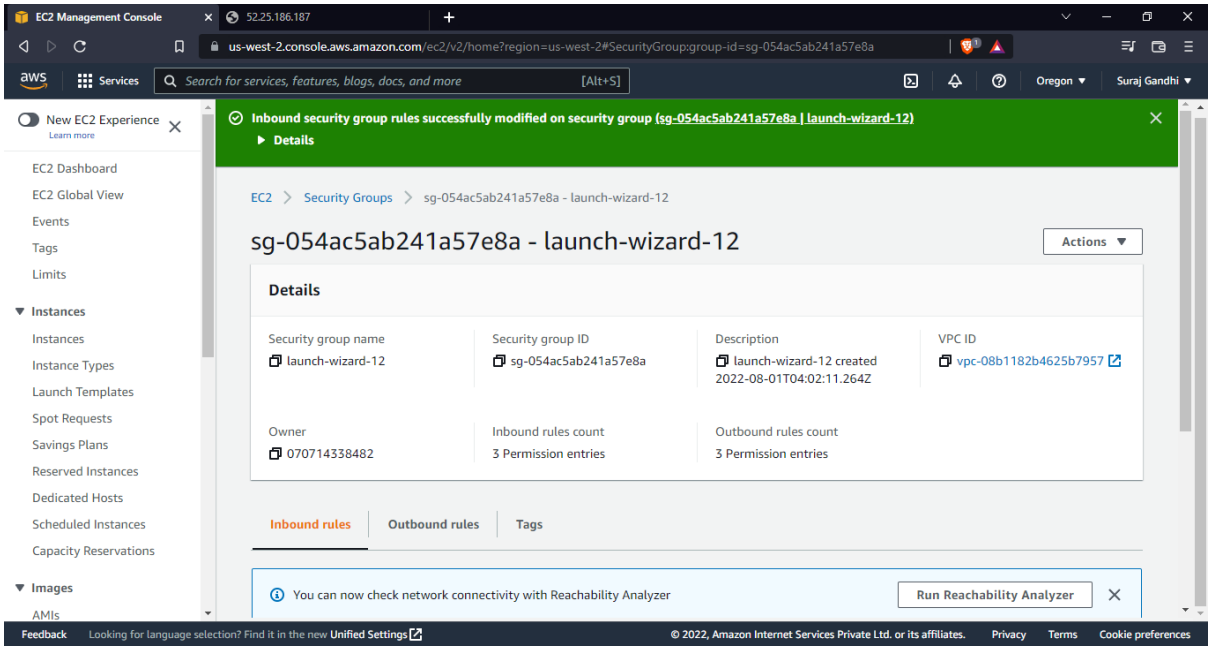

ec2-user@ip-172-31-28-111:~
[ec2-user@ip-172-31-28-111 ~]$ sudo systemctl start httpd.service

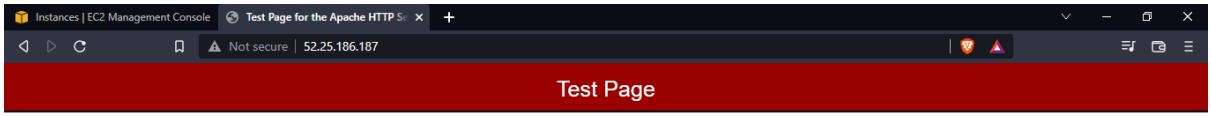

ec2-user@ip-172-31-28-111:~
[ec2-user@ip-172-31-28-111 ~]$ sudo systemctl start httpd.service
[ec2-user@ip-172-31-28-111 ~]$


ec2-user@ip-172-31-28-111:~
[ec2-user@ip-172-31-28-111 ~]$ sudo systemctl start httpd.service
[ec2-user@ip-172-31-28-111 ~]$ sudo systemctl enable httpd.service


ec2-user@ip-172-31-28-111:~
[ec2-user@ip-172-31-28-111 ~]$ sudo systemctl start httpd.service
[ec2-user@ip-172-31-28-111 ~]$ sudo systemctl enable httpd.service
Created symlink from /etc/systemd/system/multi-user.target.wants/httpd.service to /usr/lib/systemd/system/httpd.service.
[ec2-user@ip-172-31-28-111 ~]$


EC2 Management Console
52.25.186.187
us-west-2.console.aws.amazon.com/ec2/v2/home?region=us-west-2#ModifyInboundSecurityGroupRules:securityGroupId=sg-054...
Services
Search for services, features, blogs, docs, and more
[Alt+S]
Oregon
Suraj Gandhi
EC2 > Security Groups > sg-054ac5ab241a57e8a - launch-wizard-12 > Edit inbound rules
Edit inbound rules Info
Inbound rules control the incoming traffic that's allowed to reach the instance.
Inbound rules Info
Security group rule ID
Type Info
Protocol Info
Port range Info
Source Info
Description - optional Info
sgr-0ed424d085c5ef7d3
SSH
TCP
22
Custom
0.0.0.0/0
Delete
-
HTTP
TCP
80
Anywh...
0.0.0.0/0
Delete
-
HTTPS
TCP
443
Anywh...
0.0.0.0/0
Delete
Add rule
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


EC2 Management Console
52.25.186.187
us-west-2.console.aws.amazon.com/ec2/v2/home?region=us-west-2#SecurityGroup:group-id=sg-054ac5ab241a57e8a
Services
Search for services, features, blogs, docs, and more
[Alt+S]
Oregon
Suraj Gandhi
New EC2 Experience
Learn more
EC2 Dashboard
EC2 Global View
Events
Tags
Limits
Instances
Instances
Instance Types
Launch Templates
Spot Requests
Savings Plans
Reserved Instances
Dedicated Hosts
Scheduled Instances
Capacity Reservations
Images
AMIs
Inbound security group rules successfully modified on security group (sg-054ac5ab241a57e8a | launch-wizard-12)
Details
EC2 > Security Groups > sg-054ac5ab241a57e8a - launch-wizard-12
sg-054ac5ab241a57e8a - launch-wizard-12
Actions
Details
Security group name
launch-wizard-12
Security group ID
sg-054ac5ab241a57e8a
Description
launch-wizard-12 created 2022-08-01T04:02:11.264Z
VPC ID
vpc-08b1182b4625b7957
Owner
070714338482
Inbound rules count
3 Permission entries
Outbound rules count
3 Permission entries
Inbound rules
Outbound rules
Tags
You can now check network connectivity with Reachability Analyzer
Run Reachability Analyzer
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



Test Page

This page is used to test the proper operation of the Apache HTTP server after it has been installed. If you can read this page, it means that the Apache HTTP server installed at this site is working properly.

If you are a member of the general public:

The fact that you are seeing this page indicates that the website you just visited is either experiencing problems, or is undergoing routine maintenance.

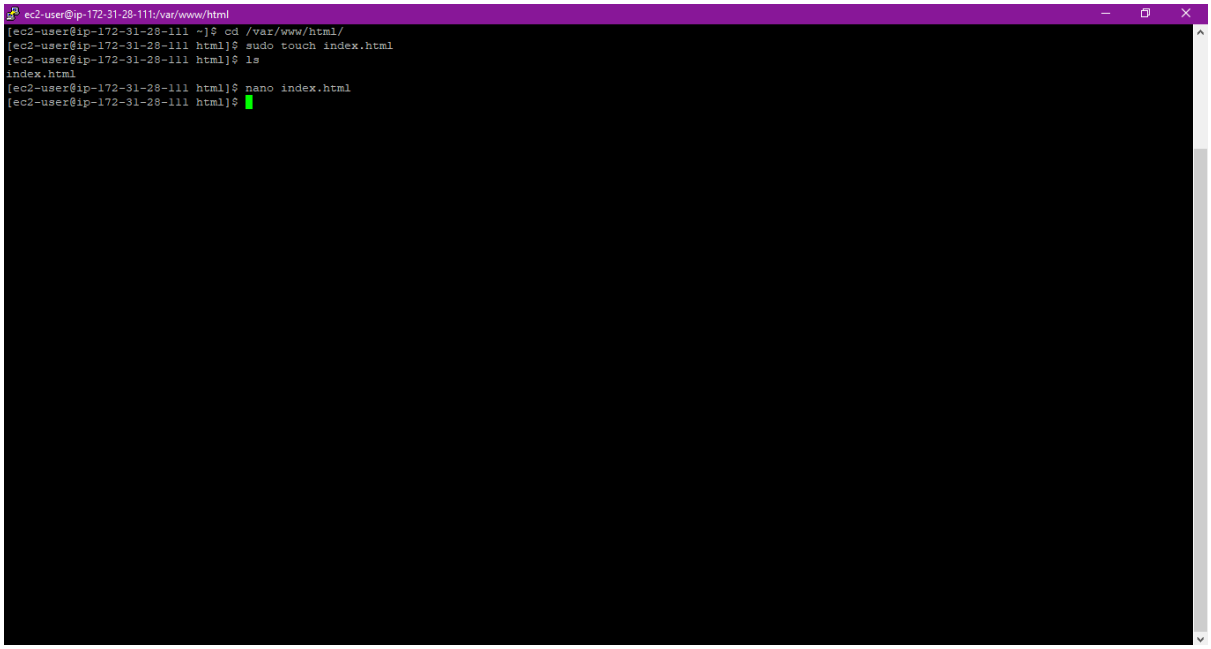
If you would like to let the administrators of this website know that you've seen this page instead of the page you expected, you should send them e-mail. In general, mail sent to the name "webmaster" and directed to the website's domain should reach the appropriate person.

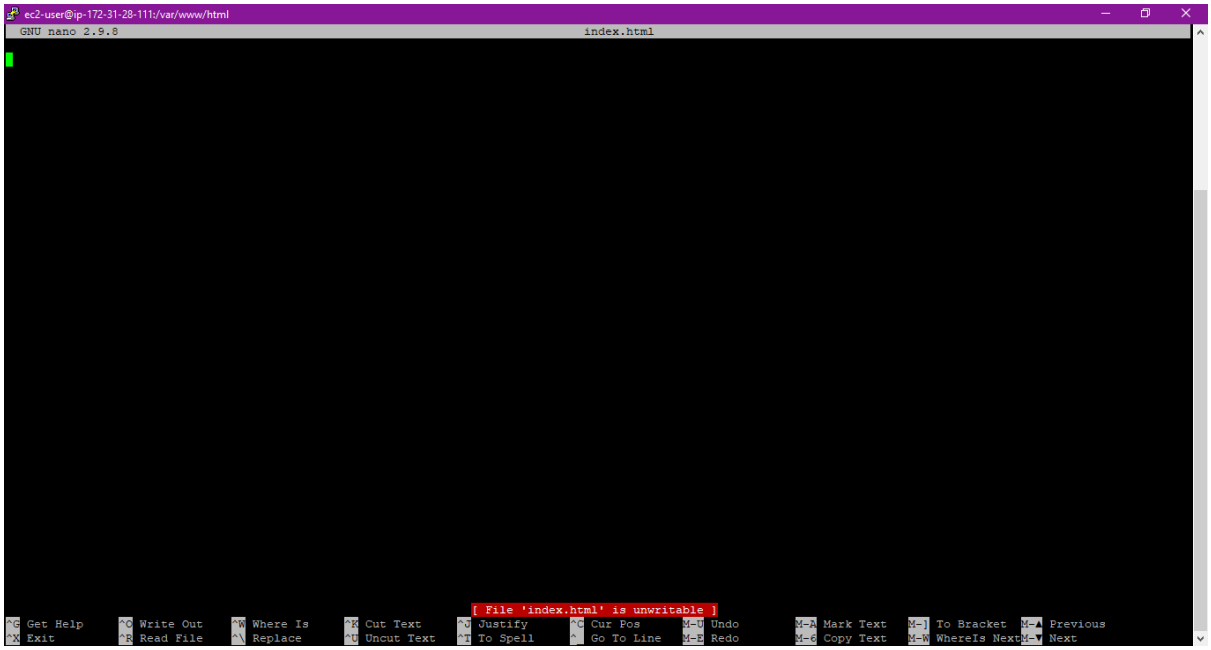
For example, if you experienced problems while visiting www.example.com, you should send e-mail to "webmaster@example.com".

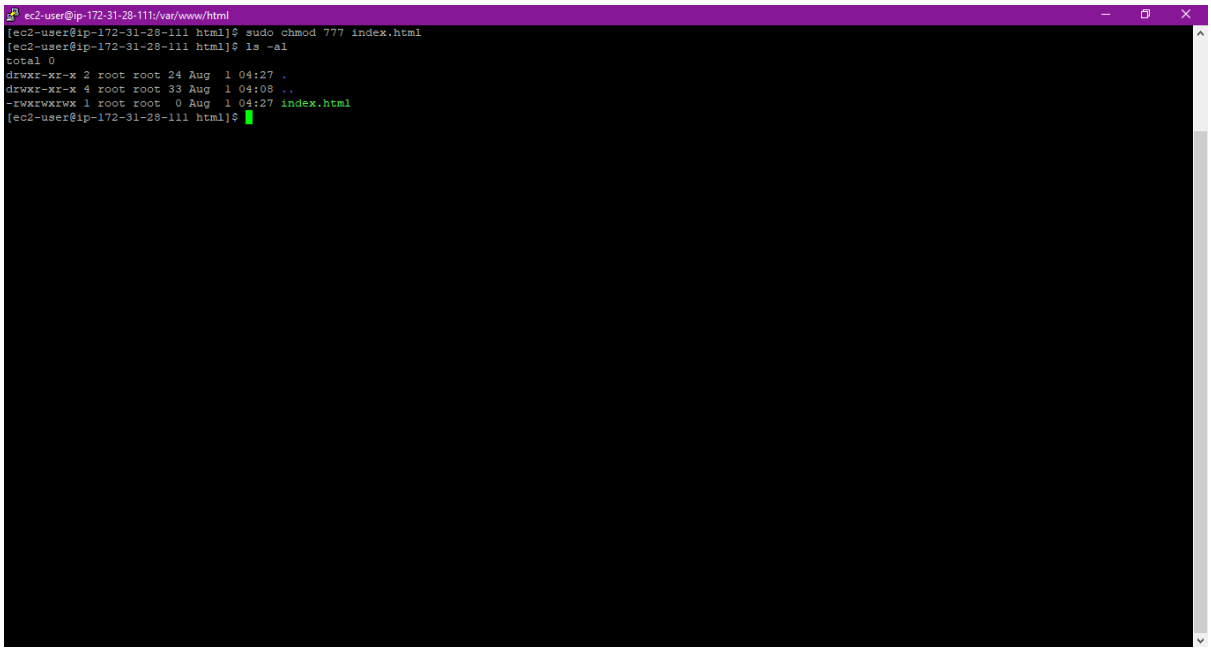
If you are the website administrator:

You may now add content to the directory `/var/www/html/`. Note that until you do so, people visiting your website will see this page, and not your content. To prevent this page from ever being used, follow the instructions in the file `/etc/httpd/conf.d/welcome.conf`.

You are free to use the image below on web sites powered by the Apache HTTP Server:




ec2-user@ip-172-31-28-111:/var/www/html
GNU nano 2.9.8
index.html
[File 'index.html' is unwritable]
^G Get Help
^X Exit
^O Write Out
^R Read File
^W Where Is
^\ Replace
^K Cut Text
^U Uncut Text
^J Justify
^T To Spell
^C Cur Pos
^_ Go To Line
M-U Undo
M-E Redo
M-A Mark Text
M-6 Copy Text
M-] To Bracket
M-W WhereIs Next
M-▲ Previous
M-▼ Next


ec2-user@ip-172-31-28-111:/var/www/html
[ec2-user@ip-172-31-28-111 html]$ sudo chmod 777 index.html
[ec2-user@ip-172-31-28-111 html]$ ls -al
total 0
drwxr-xr-x 2 root root 24 Aug 1 04:27 .
drwxr-xr-x 4 root root 33 Aug 1 04:08 ..
-rwxrwxrwx 1 root root 0 Aug 1 04:27 index.html
[ec2-user@ip-172-31-28-111 html]$

Instances | EC2 Management Console
DEMO PAGE
Not secure | 52.25.186.187

WELCOME