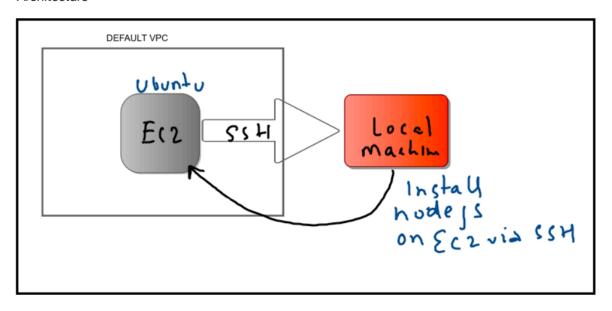
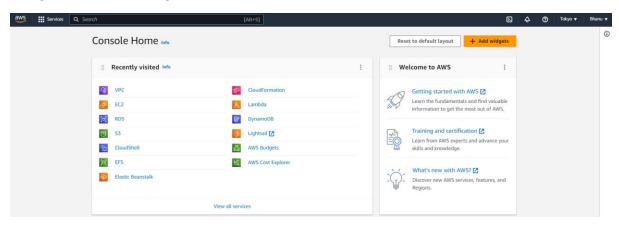
DevOps Advance - EC2 instance

Architecture



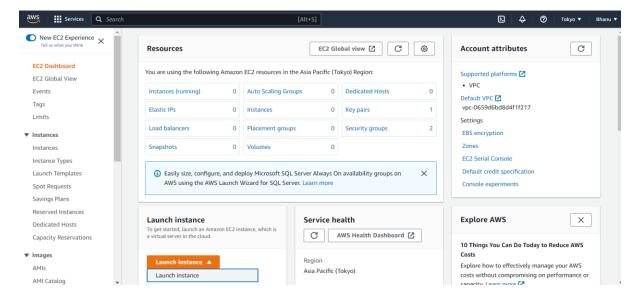
**Login to the AWS management console



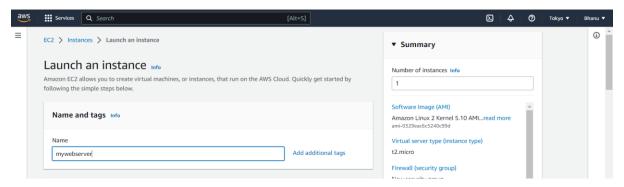
Step1:

Choose EC2 and click on launch instance.

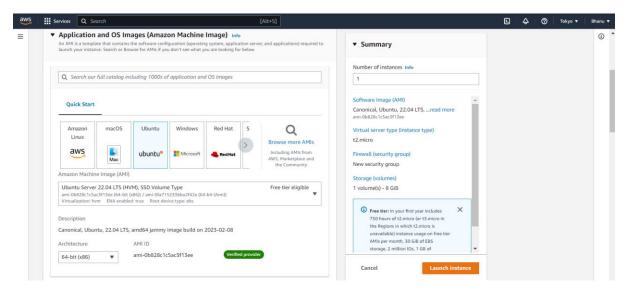
Create EC2 Instance with Ubuntu AMI.

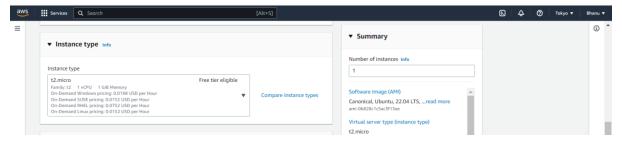


**Give name for the instance as "mywebserver".



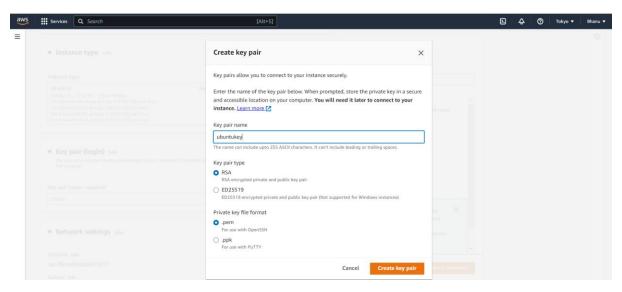
**Select the Ubuntu AMI. And the type of instance is t2.micro.



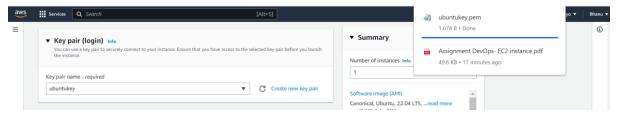


Step2:

Create key pair for SSH access.

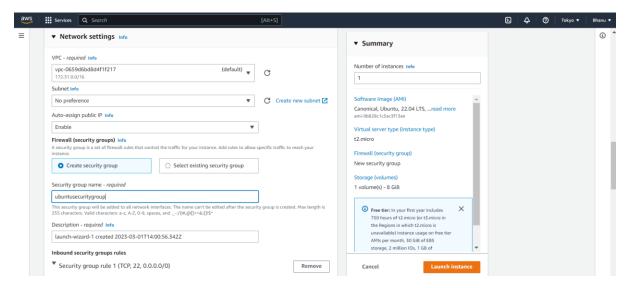


**Keypair is downloaded to the local machine.

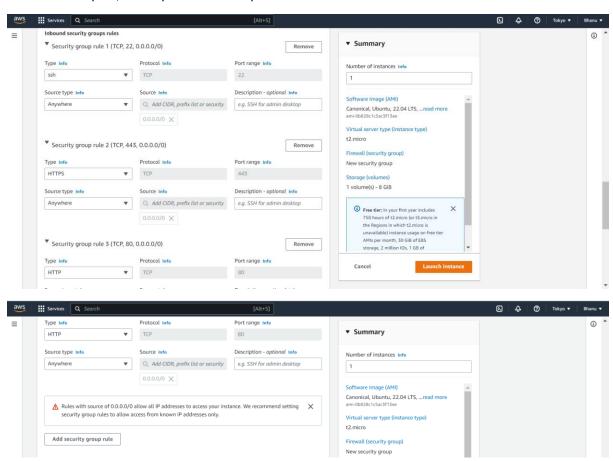


**Select the default VPC

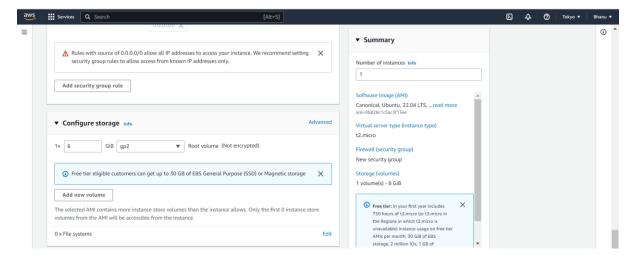
Step3: Creating Security Group with SSH and HTTP/HTTPs Ports Enabled



**Enable SSH port,HTTPS port and HTTP port.



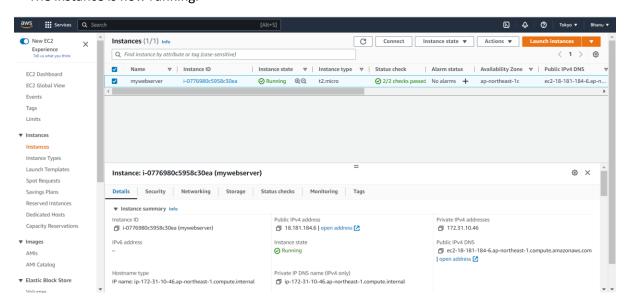
**Keep the storage settings default.



**Click on the Launch instance.

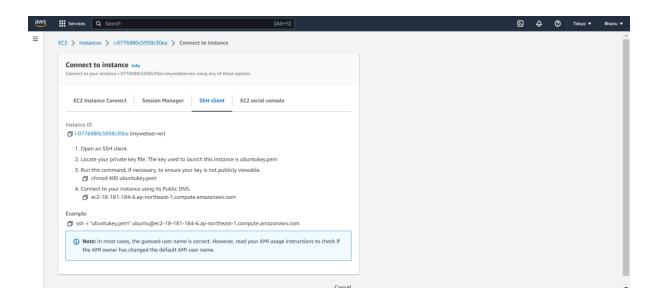


**The instance is now running.

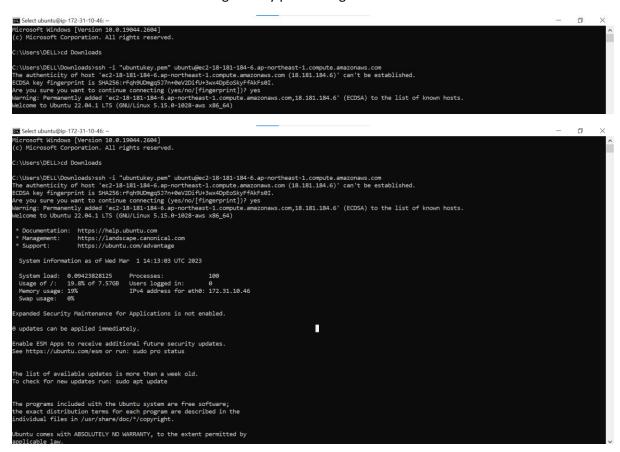


Step 4:

SSH Created EC2 Instance to local Machine.



**Connect to the EC2 instance using the key pair through ssh.



**Now we are connected to the EC2 instance.

```
The programs included with the Ubuntu system are free software; the exact distribution terms for each program are described in the individual files in /usr/share/doc/*/copyright.

Ubuntu comes with ABSOLUTELY NO WARRANTY, to the extent permitted by applicable law.

To run a command as administrator (user "root"), use "sudo <command>".

See "man sudo_root" for details.

ubuntu@ip-172-31-10-46:~$ __
```

**To install the updates, the command is

sudo apt update

```
ubuntu@ip-172-31-10-46: ~
                                                                                                                                                                                                                                                              П
                                                                                                                                                                                                                                                                            X
   buntu@ip-172-31-10-46:~$ sudo apt update
 Hit:1 http://ap-northeast-1.ec2.archive.ubuntu.com/ubuntu jammy InRelease
Get:2 http://ap-northeast-1.ec2.archive.ubuntu.com/ubuntu jammy-updates InRelease [119 kB]
 Get:3 http://ap-northeast-1.ec2.archive.ubuntu.com/ubuntu jammy-backports InRelease [107 kB]
Get:4 http://ap-northeast-1.ec2.archive.ubuntu.com/ubuntu jammy/universe amd64 Packages [14.1 MB]
 Get:5 http://security.ubuntu.com/ubuntu jammy-security InRelease [110 kB]
Get:6 http://ap-northeast-1.ec2.archive.ubuntu.com/ubuntu jammy/universe Translation-en [5652 kB]
  et:7 http://ap-northeast-1.ec2.archive.ubuntu.com/ubuntu jammy/universe amd64 c-n-f Metadata [286 kB]
Get:7 http://ap-northeast-1.ec2.archive.ubuntu.com/ubuntu jammmy/universe amd64 c-n-f Metadata [286 k8]
Get:8 http://ap-northeast-1.ec2.archive.ubuntu.com/ubuntu jammmy/multiverse amd64 Packages [217 kB]
Get:9 http://ap-northeast-1.ec2.archive.ubuntu.com/ubuntu jammmy/multiverse Translation-en [112 kB]
Get:10 http://ap-northeast-1.ec2.archive.ubuntu.com/ubuntu jammmy/multiverse amd64 c-n-f Metadata [8372 B]
Get:11 http://ap-northeast-1.ec2.archive.ubuntu.com/ubuntu jammmy-updates/main amd64 Packages [905 kB]
Get:12 http://ap-northeast-1.ec2.archive.ubuntu.com/ubuntu jammmy-updates/main Translation-en [199 kB]
Get:13 http://ap-northeast-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/restricted amd64 Packages [624 kB]
Get:15 http://ap-northeast-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/restricted Translation-en [96.3 kB]
Get:16 http://ap-northeast-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/restricted Translation-en [96.3 kB]
  et:16 http://ap-northeast-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/restricted amd64 c-n-f Metadata [580 B]
 Get:17 http://ap-northeast-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/universe amd64 Packages [874 kB]
Get:18 http://ap-northeast-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/universe Translation-en [171 kB]
Get:19 http://ap-northeast-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/universe amd64 c-n-f Metadata [17.8 kB]
 Get:20 http://ap-northeast-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/multiverse amd64 Packages [9672 B]
Get:20 http://ap-northeast-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/multiverse amd64 Packages [9672 B]
Get:21 http://ap-northeast-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/multiverse Translation-en [3260 B]
 Get:22 http://ap-northeast-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/multiverse amd64 c-n-f Metadata [456 B]
 set:23 http://ap-northeast-1.ec2.archive.ubuntu.com/ubuntu jammy-backports/main amd64 Packages [40.7 kB]
Set:24 http://ap-northeast-1.ec2.archive.ubuntu.com/ubuntu jammy-backports/main Translation-en [9800 B]
  et:25 http://ap-northeast-1.ec2.archive.ubuntu.com/ubuntu jammy-backports/main amd64 c-n-f Metadata [392 B]
 Get:26 http://ap-northeast-1.ec2.archive.ubuntu.com/ubuntu jammy-backports/restricted amd64 c-n-f Metadata [116 B]
Get:27 http://ap-northeast-1.ec2.archive.ubuntu.com/ubuntu jammy-backports/universe amd64 Packages [19.5 kB]
Get:28 http://ap-northeast-1.ec2.archive.ubuntu.com/ubuntu jammy-backports/universe Translation-en [14.0 kB]
Get:27 http://ap-northeast-1.ec2.archive.ubuntu.com/ubuntu
Get:28 http://ap-northeast-1.ec2.archive.ubuntu.com/ubuntu
                                                                                                                                                                                                                                                                            ×
 ubuntu@ip-172-31-10-46: ~
                                                                                                                                                                                                                                                              \Box
Get:27 http://ap-northeast-1.ec2.archive.ubuntu.com/ubuntu jammy-backports/universe amd64 Packages [19.5 kB]
Get:28 http://ap-northeast-1.ec2.archive.ubuntu.com/ubuntu jammy-backports/universe Translation-en [14.0 kB]
Get:29 http://ap-northeast-1.ec2.archive.ubuntu.com/ubuntu jammy-backports/universe amd64 c-n-f Metadata [392 B]
  et:30 http://ap-northeast-1.ec2.archive.ubuntu.com/ubuntu jammy-backports/multiverse amd64 c-n-f Metadata [116 B]
Get:30 http://ap-northeast-1.ec2.archave.ubuntu.com/ubuntu jammy-backports/multiverse amd64
Get:31 http://security.ubuntu.com/ubuntu jammy-security/main amd64 Packages [646 kB]
Get:32 http://security.ubuntu.com/ubuntu jammy-security/main Translation-en [135 kB]
Get:33 http://security.ubuntu.com/ubuntu jammy-security/main amd64 c-n-f Metadata [8524 B]
Get:34 http://security.ubuntu.com/ubuntu jammy-security/restricted amd64 Packages [582 kB]
Get:35 http://security.ubuntu.com/ubuntu jammy-security/restricted Translation-en [90.4 kB]
Get:36 http://security.ubuntu.com/ubuntu jammy-security/universe amd64 Packages [694 kB]
Get:37 http://security.ubuntu.com/ubuntu jammy-security/universe Translation-en [110 kB]
  et:38 http://security.ubuntu.com/ubuntu jammy-security/universe amd64 c-n-f Metadata [13.4 kB]
 Get:39 http://security.ubuntu.com/ubuntu jammy-security/multiverse amd64 Packages [4960 B]
Get:40 http://security.ubuntu.com/ubuntu jammy-security/multiverse Translation-en [996 B]
Get:41 http://security.ubuntu.com/ubuntu jammy-security/multiverse amd64 c-n-f Metadata [240 B]
 Fetched 26.0 MB in 5s (5579 kB/s)
Reading package lists... Done
  Building dependency tree... Done
Reading state information... Done
36 packages can be upgraded. Run 'apt list --upgradable' to see them
```

Step 5:

To install the node js give the below command.

sudo apt install nodejs

```
46:~$ sudo apt install nodeis
 Reading package lists... Done
 Building dependency tree... Done
 Reading state information... Done
  he following additional packages will be installed:
   javascript-common libc-ares2 libjs-highlight.js libnode72 nodejs-doc
Suggested packages:
apache2 | lighttpd | httpd npm
The following NEW packages will be installed:
   javascript-common libc-ares2 libjs-highlight.js libnode72 nodejs nodejs-doc
 Dupgraded, 6 newly installed, 0 to remove and 36 not upgraded.
Need to get 13.7 MB of archives.
 After this operation, 53.9 MB of additional disk space will be used.
 Do you want to continue? [Y/n] Y
                                                                                                                                                                                             П
  ™ ubuntu@ip-172-31-10-46: ~
Get:1 http://ap-northeast-1.ec2.archive.ubuntu.com/ubuntu jammy/main amd64 javascript-common all 11+nmu1 [5936 B]
Get:2 http://ap-northeast-1.ec2.archive.ubuntu.com/ubuntu jammy/universe amd64 libjs-highlight.js all 9.18.5+dfsg1-1 [36
 7 kB]
 Get:3 http://ap-northeast-1.ec2.archive.ubuntu.com/ubuntu jammy/main amd64 libc-ares2 amd64 1.18.1-1build1 [44.9 kB]
Get:4 http://ap-northeast-1.ec2.archive.ubuntu.com/ubuntu jammy/universe amd64 libnode72 amd64 12.22.9~dfsg-1ubuntu3 [10
 Get:5 http://ap-northeast-1.ec2.archive.ubuntu.com/ubuntu jammy/universe amd64 nodejs-doc all 12.22.9~dfsg-1ubuntu3 [240
Get:6 http://ap-northeast-1.ec2.archive.ubuntu.com/ubuntu jammy/universe amd64 nodejs amd64 12.22.9~dfsg-1ubuntu3 [122 k
B]
 Fetched 13.7 MB in 0s (60.7 MB/s)
Selecting previously unselected package javascript-common.
(Reading database ... 63605 files and directories currently installed.)
Preparing to unpack .../0-javascript-common_11+nmu1_all.deb ...
 Unpacking javascript-common (11+nmu1) ...
 Selecting previously unselected package libjs-highlight.js.
 Preparing to unpack .../1-libjs-highlight.js_9.18.5+dfsg1-1_all.deb ...
Unpacking libjs-highlight.js (9.18.5+dfsg1-1) ...
Unpacking libjs-nighlight.js (9.18.5+drsgl-1) ...

Selecting previously unselected package libc-ares2:amd64.

Preparing to unpack .../2-libc-ares2_1.18.1-1build1_amd64.deb ...

Unpacking libc-ares2:amd64 (1.18.1-1build1) ...

Selecting previously unselected package libnode72:amd64.

Preparing to unpack .../3-libnode72_12.22.9~dfsg-1ubuntu3_amd64.deb ...

Unpacking libnode72:amd64 (12.22.9~dfsg-1ubuntu3) ...
 Selecting previously unselected package nodejs-doc
Preparing to unpack .../4-nodejs-doc_12.22.9~dfsg-1ubuntu3_all.deb ...
Unpacking nodejs-doc (12.22.9~dfsg-1ubuntu3) ...
Selecting previously unselected package nodejs.
Preparing to unpack .../5-nodejs_12.22.9~dfsg-1ubuntu3_amd64.deb .
  ■ ubuntu@ip-172-31-10-46: ~
                                                                                                                                                                                              П
Setting up libc-ares2:amd64 (1.18.1-1build1) ...
Setting up libnode72:amd64 (12.22.9~dfsg-lubuntu3) ...
Setting up libjs-highlight.js (9.18.5+dfsg1-1) ...
Setting up nodejs (12.22.9~dfsg-lubuntu3) ...
update-alternatives: using /usr/bin/nodejs to provide /usr/bin/js (js) in auto mode
Setting up nodejs-doc (12.22.9~dfsg-lubuntu3) ...
Processing triggers for man-db (2.10.2-1) ...
Processing triggers for libc-bin (2.35-0ubuntu3.1) ...
Scanning processes...
Scanning linux images...
Running kernel seems to be up-to-date.
 No services need to be restarted.
No containers need to be restarted.
 No user sessions are running outdated binaries.
No VM guests are running outdated hypervisor (qemu) binaries on this host.
```

П

Step 6:

ubuntu@ip-172-31-10-46;

To check the status of nodejs, whether it is installed or not, give the command

node -v



This command gives the output as v12.22.9, that indicates node js is successfully installed and it is the version of it.