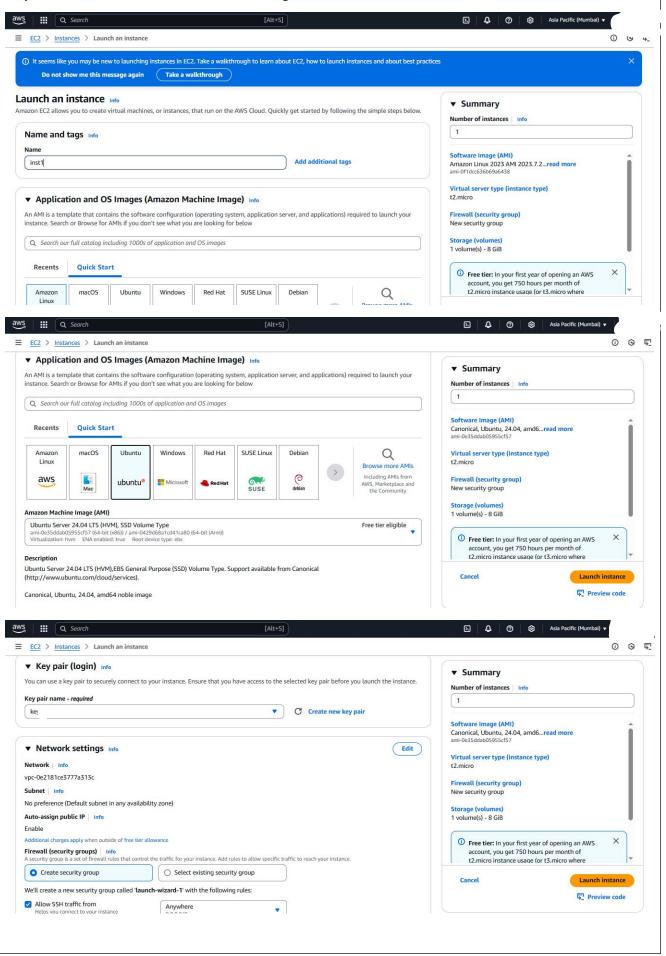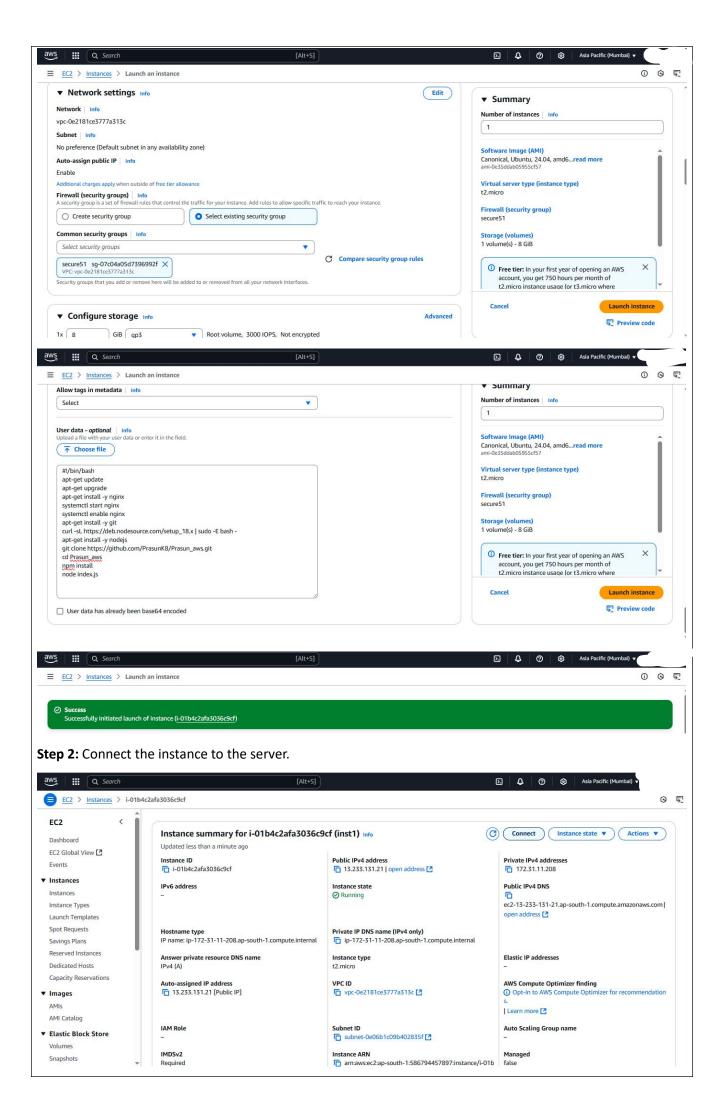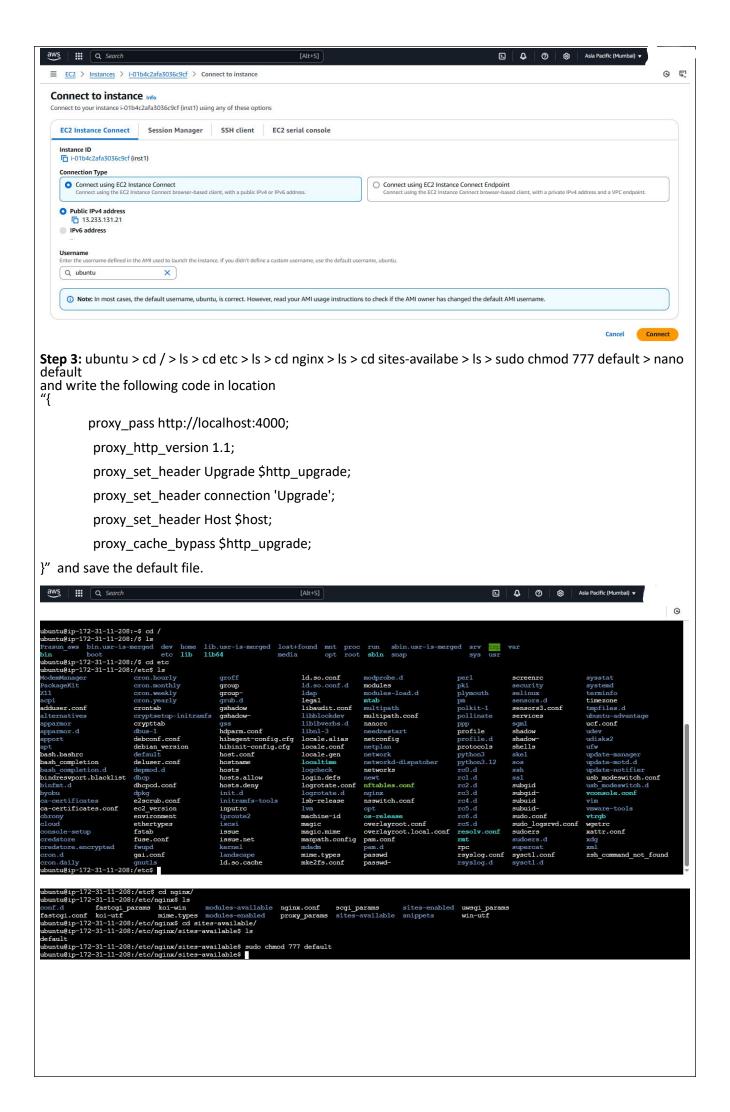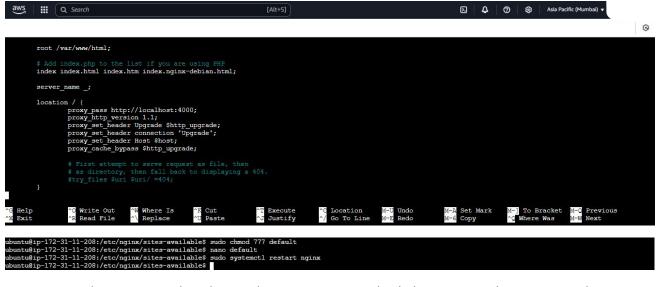# Assignment No : 12

Title : Deploy and run the project in AWS without using the port.

Step 1: Create an EC2 instance as created in Asg 11.

Step 2: Connect the instance to the server.

☰ EC2 > Instances > i-01b4c2afa3036c9cf > Connect to instance   ◌ ⊡

Connect to instance Info
Connect to your instance i-01b4c2afa3036c9cf (inst1) using any of these options

| EC2 Instance Connect | Session Manager | SSH client | EC2 serial console |

Instance ID
⎘ i-01b4c2afa3036c9cf (inst1)

Connection Type

⦿ Connect using EC2 Instance Connect
Connect using the EC2 Instance Connect browser-based client, with a public IPv4 or IPv6 address.

○ Connect using EC2 Instance Connect Endpoint
Connect using the EC2 Instance Connect browser-based client, with a private IPv4 address and a VPC endpoint.

⦿ **Public IPv4 address**
⎘ 13.233.131.21

○ **IPv6 address**

Username
Enter the username defined in the AMI used to launch the instance. If you didn't define a custom username, use the default username, ubuntu.

| Q ubuntu   ✕ |

ⓘ **Note:** In most cases, the default username, ubuntu, is correct. However, read your AMI usage instructions to check if the AMI owner has changed the default AMI username.

Cancel   [Connect]

Step 3: ubuntu > cd / > ls > cd etc > ls > cd nginx > ls > cd sites-availabe > ls > sudo chmod 777 default > nano default
and write the following code in location
"{

          proxy_pass http://localhost:4000;

          proxy_http_version 1.1;

          proxy_set_header Upgrade $http_upgrade;

          proxy_set_header connection 'Upgrade';

          proxy_set_header Host $host;

          proxy_cache_bypass $http_upgrade;

}" and save the default file.

```
ubuntu@ip-172-31-11-208:~$ cd /
ubuntu@ip-172-31-11-208:/$ ls
Prasun_aws  bin.usr-is-merged  dev  home  lib.usr-is-merged  lost+found  mnt  proc  run   sbin.usr-is-merged  srv       var
bin         boot               etc  lib   lib64              media       opt  root  sbin  snap               sys  usr
ubuntu@ip-172-31-11-208:/$ cd etc
ubuntu@ip-172-31-11-208:/etc$ ls
ModemManager         cron.hourly          groff              ld.so.conf        modprobe.d            perl         screenrc          sysstat
PackageKit           cron.monthly         group              ld.so.conf.d      modules               pki          security          systemd
X11                  cron.weekly          group-             ldap              modules-load.d        plymouth     selinux           terminfo
acpi                 cron.yearly          grub.d             legal             mtab                  pm           sensors.d         timezone
adduser.conf         crontab              gshadow            libaudit.conf     multipath             polkit-1     sensors3.conf     tmpfiles.d
alternatives         cryptsetup-initramfs gshadow-           libblockdev       multipath.conf        pollinate    services          ubuntu-advantage
apparmor             crypttab             gss                libibverbs.d      nanorc                ppp          sgml              ucf.conf
apparmor.d           dbus-1               hdparm.conf        libnl-3           needrestart           profile      shadow            udev
apport               debconf.conf         hibagent-config.cfg  locale.alias    netconfig             profile.d    shadow-           udisks2
apt                  debian_version       hibinit-config.cfg   locale.conf     netplan               protocols    shells            ufw
bash.bashrc          default              host.conf          locale.gen        network               python3      skel              update-manager
bash_completion      deluser.conf         hostname           localtime         networkd-dispatcher   python3.12   sos               update-motd.d
bash_completion.d    depmod.d             hosts              logcheck          networks              rc0.d        ssh               update-notifier
bindresvport.blacklist  dhcp              hosts.allow        login.defs        newt                  rc1.d        ssl               usb_modeswitch.conf
binfmt.d             dhcpcd.conf          hosts.deny         logrotate.conf    nftables.conf         rc2.d        subgid            usb_modeswitch.d
byobu                dpkg                 init.d             logrotate.d       nginx                 rc3.d        subgid-           vconsole.conf
ca-certificates      e2scrub.conf         initramfs-tools    lsb-release       nsswitch.conf         rc4.d        subuid            vim
ca-certificates.conf ec2_version          inputrc            lvm               opt                   rc5.d        subuid-           vmware-tools
chrony               environment          iproute2           machine-id        os-release            rc6.d        sudo.conf         vtrgb
cloud                ethertypes           iscsi              magic             overlayroot.conf      rcS.d        sudo_logsrvd.conf wgetrc
console-setup        fstab                issue              magic.mime        overlayroot.local.conf resolv.conf sudoers           xattr.conf
credstore            fuse.conf            issue.net          manpath.config    pam.conf              rmt          sudoers.d         xdg
credstore.encrypted  fwupd                kernel             mdadm             pam.d                 rpc          supercat          xml
cron.d               gai.conf             landscape          mime.types        passwd                rsyslog.conf sysctl.conf       zsh_command_not_found
cron.daily           gnutls               ld.so.cache        mke2fs.conf       passwd-               rsyslog.d    sysctl.d
ubuntu@ip-172-31-11-208:/etc$
```

```
ubuntu@ip-172-31-11-208:/etc$ cd nginx/
ubuntu@ip-172-31-11-208:/etc/nginx$ ls
conf.d          fastcgi_params  koi-win   modules-available  nginx.conf    scgi_params     sites-enabled  uwsgi_params
fastcgi.conf    koi-utf         mime.types  modules-enabled  proxy_params  sites-available snippets       win-utf
ubuntu@ip-172-31-11-208:/etc/nginx$ cd sites-available/
ubuntu@ip-172-31-11-208:/etc/nginx/sites-available$ ls
default
ubuntu@ip-172-31-11-208:/etc/nginx/sites-available$ sudo chmod 777 default
ubuntu@ip-172-31-11-208:/etc/nginx/sites-available$
```

```
        root /var/www/html;

        # Add index.php to the list if you are using PHP
        index index.html index.htm index.nginx-debian.html;

        server_name _;

        location / {
                proxy_pass http://localhost:4000;
                proxy_http_version 1.1;
                proxy_set_header Upgrade $http_upgrade;
                proxy_set_header connection 'Upgrade';
                proxy_set_header Host $host;
                proxy_cache_bypass $http_upgrade;

                # First attempt to serve request as file, then
                # as directory, then fall back to displaying a 404.
                #try_files $uri $uri/ =404;
        }
```

```
^G Help        ^O Write Out   ^W Where Is    ^K Cut         ^T Execute     ^C Location    M-U Undo       M-A Set Mark   M-] To Bracket M-Q Previous
^X Exit        ^R Read File    ^\ Replace     ^U Paste       ^J Justify     ^/ Go To Line  M-E Redo       M-6 Copy       ^Q Where Was   M-W Next
```

```
ubuntu@ip-172-31-11-208:/etc/nginx/sites-available$ sudo chmod 777 default
ubuntu@ip-172-31-11-208:/etc/nginx/sites-available$ nano default
ubuntu@ip-172-31-11-208:/etc/nginx/sites-available$ sudo systemctl restart nginx
ubuntu@ip-172-31-11-208:/etc/nginx/sites-available$
```

Step 4: Go to the incognito tab and paste the instance URL to check the project without entering the PORT.

502 Bad Gateway

nginx/1.24.0 (Ubuntu)