Kubernetes Task-2

Task Description:

Create the K8s EKS,further you have to do the deployment of the Nginx application and access the application outside the cluster.

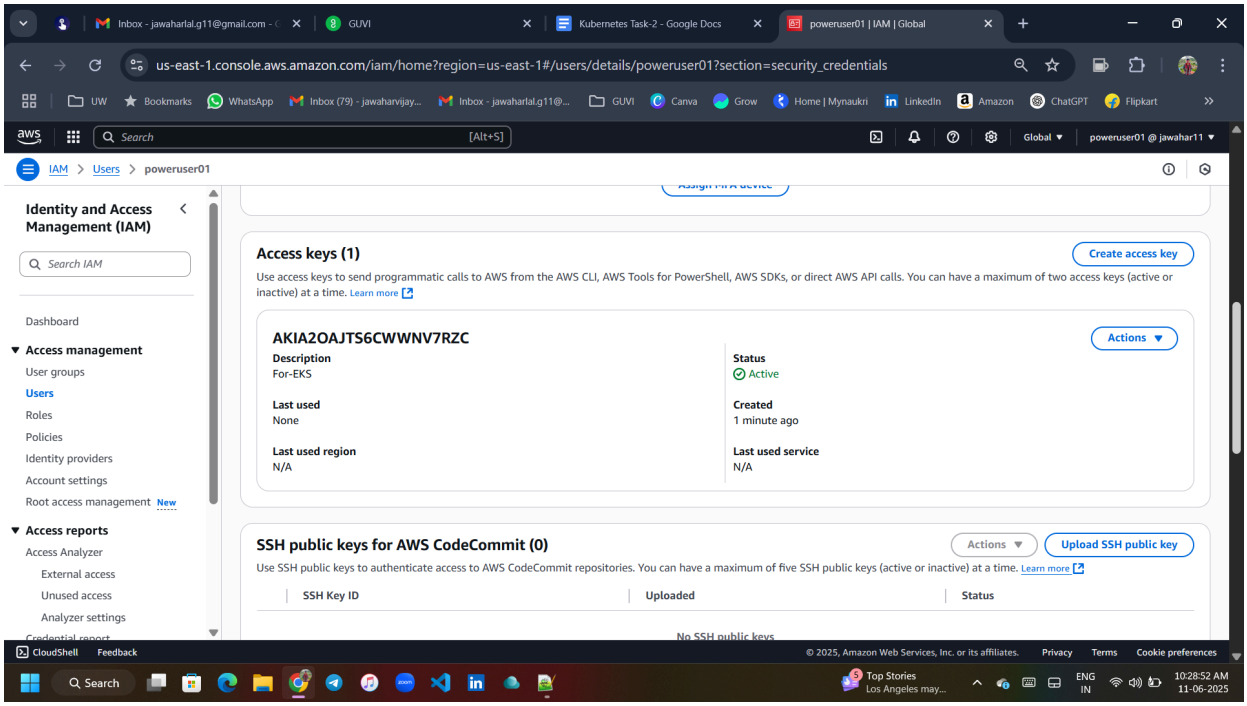
Techstacks needs to be used :

- AWS EKS
- EKSCtl
- Kubectl

Screenshots:

Google Drive Link :

https://docs.google.com/document/d/163y2Qkivrlszs6t_qwk3-yHviTa9eF98-d5iGSfGGDs/edit?usp=sharing


Inbox - jawaharlal.g11@gmail.com
GUVI
Kubernetes Task-2 - Google Docs
poweruser01 | IAM | Global
us-east-1.console.aws.amazon.com/iam/home?region=us-east-1#/users/details/poweruser01?section=security_credentials
IAM > Users > poweruser01
Identity and Access Management (IAM)
Search IAM
Dashboard
Access management
User groups
Users
Roles
Policies
Identity providers
Account settings
Root access management New
Access reports
Access Analyzer
External access
Unused access
Analyzer settings
Access keys (1)
Create access key
Use access keys to send programmatic calls to AWS from the AWS CLI, AWS Tools for PowerShell, AWS SDKs, or direct AWS API calls. You can have a maximum of two access keys (active or inactive) at a time. Learn more
AKIA2OAJTS6CWWNV7RZC
Actions
Description
For-EKS
Status
Active
Last used
None
Created
1 minute ago
Last used region
N/A
Last used service
N/A
SSH public keys for AWS CodeCommit (0)
Actions
Upload SSH public key
Use SSH public keys to authenticate access to AWS CodeCommit repositories. You can have a maximum of five SSH public keys (active or inactive) at a time. Learn more
SSH Key ID
Uploaded
Status
No SSH public keys
CloudShell
Feedback
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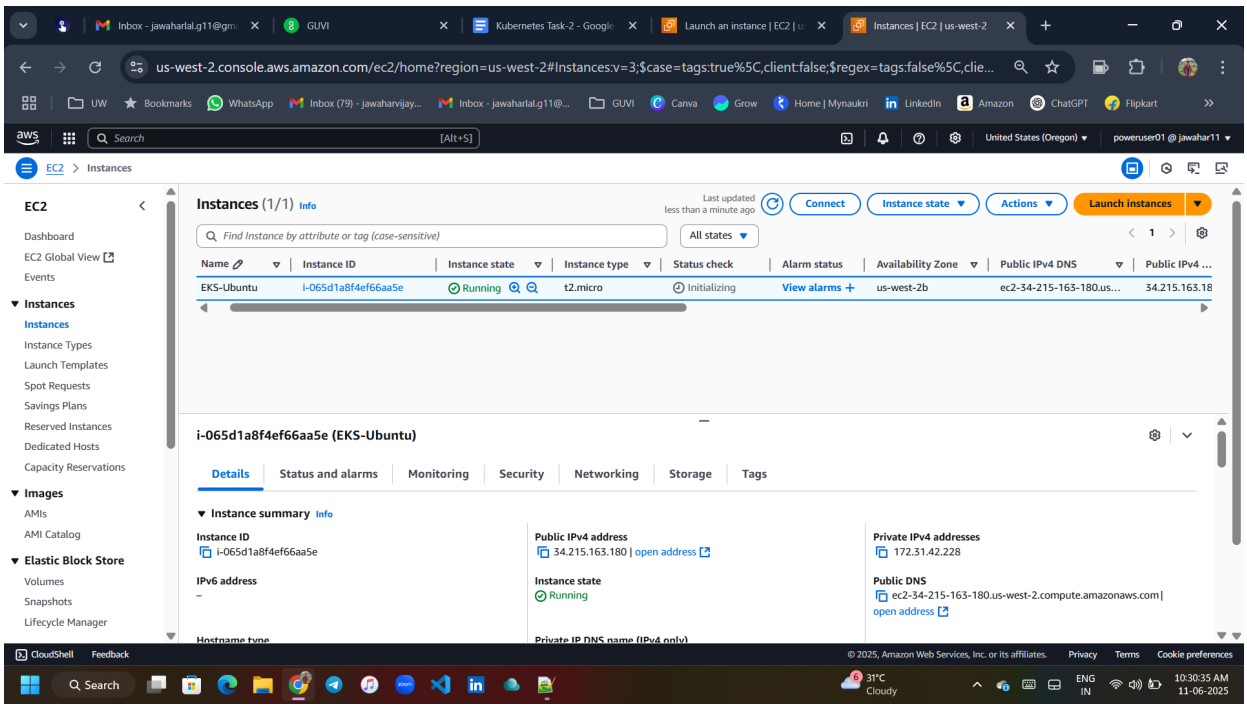
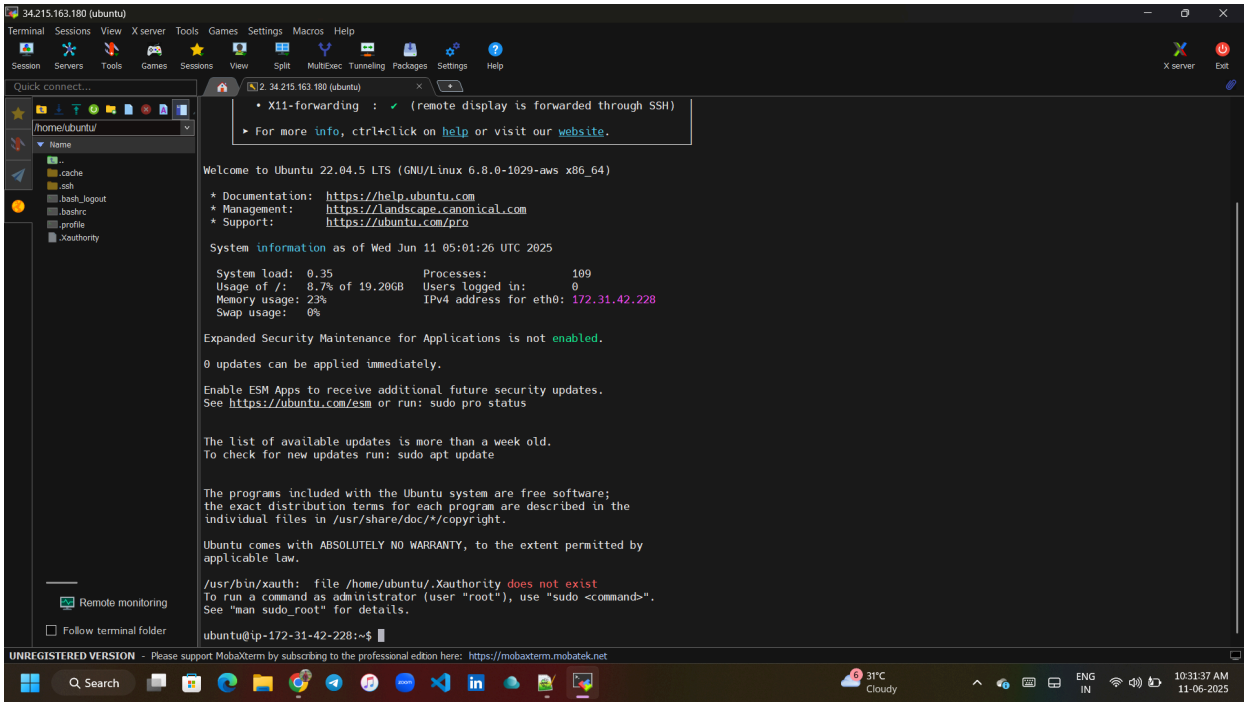
Privacy
Terms
Cookie preferences
Top Stories
Los Angeles may...
ENG
IN
10:28:52 AM
11-06-2025


Inbox - jawaharlal.g11@gm
GUVI
Kubernetes Task-2 - Google
Launch an instance | EC2 | u
Instances | EC2 | us-west-2
us-west-2.console.aws.amazon.com/ec2/home?region=us-west-2#Instances:v=3;$case=tags:true%5C,client:false;$regex=tags:false%5C,clie...
EC2 > Instances
EC2
Dashboard
EC2 Global View
Events
Instances
Instances
Instance Types
Launch Templates
Spot Requests
Savings Plans
Reserved Instances
Dedicated Hosts
Capacity Reservations
Images
AMIs
AMI Catalog
Elastic Block Store
Volumes
Snapshots
Lifecycle Manager
Instances (1/1) Info
Last updated less than a minute ago
Connect
Instance state
Actions
Launch instances
Find Instance by attribute or tag (case-sensitive)
All states
Name
Instance ID
Instance state
Instance type
Status check
Alarm status
Availability Zone
Public IPv4 DNS
Public IPv4 ...
EKS-Ubuntu
i-065d1a8f4ef66aa5e
Running
t2.micro
Initializing
View alarms
us-west-2b
ec2-34-215-163-180.us...
34.215.163.18
i-065d1a8f4ef66aa5e (EKS-Ubuntu)
Details
Status and alarms
Monitoring
Security
Networking
Storage
Tags
Instance summary Info
Instance ID
i-065d1a8f4ef66aa5e
Public IPv4 address
34.215.163.180 | open address
Private IPv4 addresses
172.31.42.228
IPv6 address
-
Instance state
Running
Public DNS
ec2-34-215-163-180.us-west-2.compute.amazonaws.com | open address
Hostname type
Private IP DNS name (IPv4 only)
CloudShell
Feedback
© 2025, Amazon Web Services, Inc. or its affiliates.
Privacy
Terms
Cookie preferences
31°C
Cloudy
ENG
IN
10:30:35 AM
11-06-2025


34.215.163.180 (ubuntu)
Terminal Sessions View X server Tools Games Settings Macros Help
Session Servers Tools Games Sessions View Split MultiExec Tunneling Packages Settings Help
X server Exit
Quick connect...
2. 34.215.163.180 (ubuntu)
/home/ubuntu/
Name
.cache
.ssh
.bash_logout
.bashrc
.profile
.Xauthority
Remote monitoring
Follow terminal folder
• X11-forwarding : ✔ (remote display is forwarded through SSH)
▸ For more info, ctrl+click on help or visit our website.
Welcome to Ubuntu 22.04.5 LTS (GNU/Linux 6.8.0-1029-aws x86_64)
* Documentation: https://help.ubuntu.com
* Management: https://landscape.canonical.com
* Support: https://ubuntu.com/pro
System information as of Wed Jun 11 05:01:26 UTC 2025
System load: 0.35 Processes: 109
Usage of /: 8.7% of 19.20GB Users logged in: 0
Memory usage: 23% IPv4 address for eth0: 172.31.42.228
Swap usage: 0%
Expanded Security Maintenance for Applications is not enabled.
0 updates can be applied immediately.
Enable ESM Apps to receive additional future security updates.
See https://ubuntu.com/esm or run: sudo pro status
The list of available updates is more than a week old.
To check for new updates run: sudo apt update
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.
/usr/bin/xauth: file /home/ubuntu/.Xauthority does not exist
To run a command as administrator (user "root"), use "sudo <command>".
See "man sudo_root" for details.
ubuntu@ip-172-31-42-228:~$
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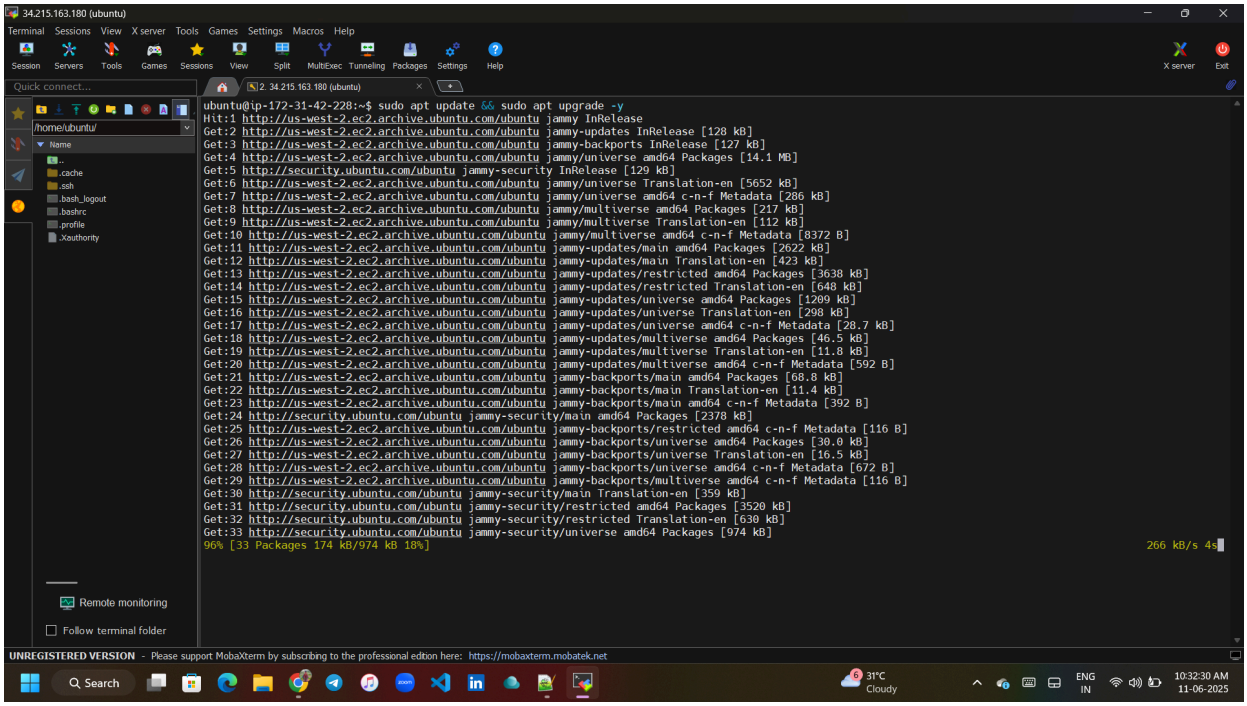
34.215.163.180 (ubuntu)
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/home/ubuntu/
Name
.cache
.ssh
.bash_logout
.bashrc
.profile
.Xauthority
Remote monitoring
Follow terminal folder
ubuntu@ip-172-31-42-228:~$ sudo apt update && sudo apt upgrade -y
Hit:1 http://us-west-2.ec2.archive.ubuntu.com/ubuntu jammy InRelease
Get:2 http://us-west-2.ec2.archive.ubuntu.com/ubuntu jammy-updates InRelease [128 kB]
Get:3 http://us-west-2.ec2.archive.ubuntu.com/ubuntu jammy-backports InRelease [127 kB]
Get:4 http://us-west-2.ec2.archive.ubuntu.com/ubuntu jammy/universe amd64 Packages [14.1 MB]
Get:5 http://security.ubuntu.com/ubuntu jammy-security InRelease [129 kB]
Get:6 http://us-west-2.ec2.archive.ubuntu.com/ubuntu jammy/universe Translation-en [5652 kB]
Get:7 http://us-west-2.ec2.archive.ubuntu.com/ubuntu jammy/universe amd64 c-n-f Metadata [286 kB]
Get:8 http://us-west-2.ec2.archive.ubuntu.com/ubuntu jammy/multiverse amd64 Packages [217 kB]
Get:9 http://us-west-2.ec2.archive.ubuntu.com/ubuntu jammy/multiverse Translation-en [112 kB]
Get:10 http://us-west-2.ec2.archive.ubuntu.com/ubuntu jammy/multiverse amd64 c-n-f Metadata [8372 B]
Get:11 http://us-west-2.ec2.archive.ubuntu.com/ubuntu jammy-updates/main amd64 Packages [2622 kB]
Get:12 http://us-west-2.ec2.archive.ubuntu.com/ubuntu jammy-updates/main Translation-en [423 kB]
Get:13 http://us-west-2.ec2.archive.ubuntu.com/ubuntu jammy-updates/restricted amd64 Packages [3638 kB]
Get:14 http://us-west-2.ec2.archive.ubuntu.com/ubuntu jammy-updates/restricted Translation-en [648 kB]
Get:15 http://us-west-2.ec2.archive.ubuntu.com/ubuntu jammy-updates/universe amd64 Packages [1209 kB]
Get:16 http://us-west-2.ec2.archive.ubuntu.com/ubuntu jammy-updates/universe Translation-en [298 kB]
Get:17 http://us-west-2.ec2.archive.ubuntu.com/ubuntu jammy-updates/universe amd64 c-n-f Metadata [28.7 kB]
Get:18 http://us-west-2.ec2.archive.ubuntu.com/ubuntu jammy-updates/multiverse amd64 Packages [46.5 kB]
Get:19 http://us-west-2.ec2.archive.ubuntu.com/ubuntu jammy-updates/multiverse Translation-en [11.8 kB]
Get:20 http://us-west-2.ec2.archive.ubuntu.com/ubuntu jammy-updates/multiverse amd64 c-n-f Metadata [592 B]
Get:21 http://us-west-2.ec2.archive.ubuntu.com/ubuntu jammy-backports/main amd64 Packages [68.8 kB]
Get:22 http://us-west-2.ec2.archive.ubuntu.com/ubuntu jammy-backports/main Translation-en [11.4 kB]
Get:23 http://us-west-2.ec2.archive.ubuntu.com/ubuntu jammy-backports/main amd64 c-n-f Metadata [392 B]
Get:24 http://security.ubuntu.com/ubuntu jammy-security/main amd64 Packages [2378 kB]
Get:25 http://us-west-2.ec2.archive.ubuntu.com/ubuntu jammy-backports/restricted amd64 c-n-f Metadata [116 B]
Get:26 http://us-west-2.ec2.archive.ubuntu.com/ubuntu jammy-backports/universe amd64 Packages [30.0 kB]
Get:27 http://us-west-2.ec2.archive.ubuntu.com/ubuntu jammy-backports/universe Translation-en [16.5 kB]
Get:28 http://us-west-2.ec2.archive.ubuntu.com/ubuntu jammy-backports/universe amd64 c-n-f Metadata [672 B]
Get:29 http://us-west-2.ec2.archive.ubuntu.com/ubuntu jammy-backports/multiverse amd64 c-n-f Metadata [116 B]
Get:30 http://security.ubuntu.com/ubuntu jammy-security/main Translation-en [359 kB]
Get:31 http://security.ubuntu.com/ubuntu jammy-security/restricted amd64 Packages [3520 kB]
Get:32 http://security.ubuntu.com/ubuntu jammy-security/restricted Translation-en [630 kB]
Get:33 http://security.ubuntu.com/ubuntu jammy-security/universe amd64 Packages [974 kB]
96% [33 Packages 174 kB/974 kB 18%] 266 kB/s 4s
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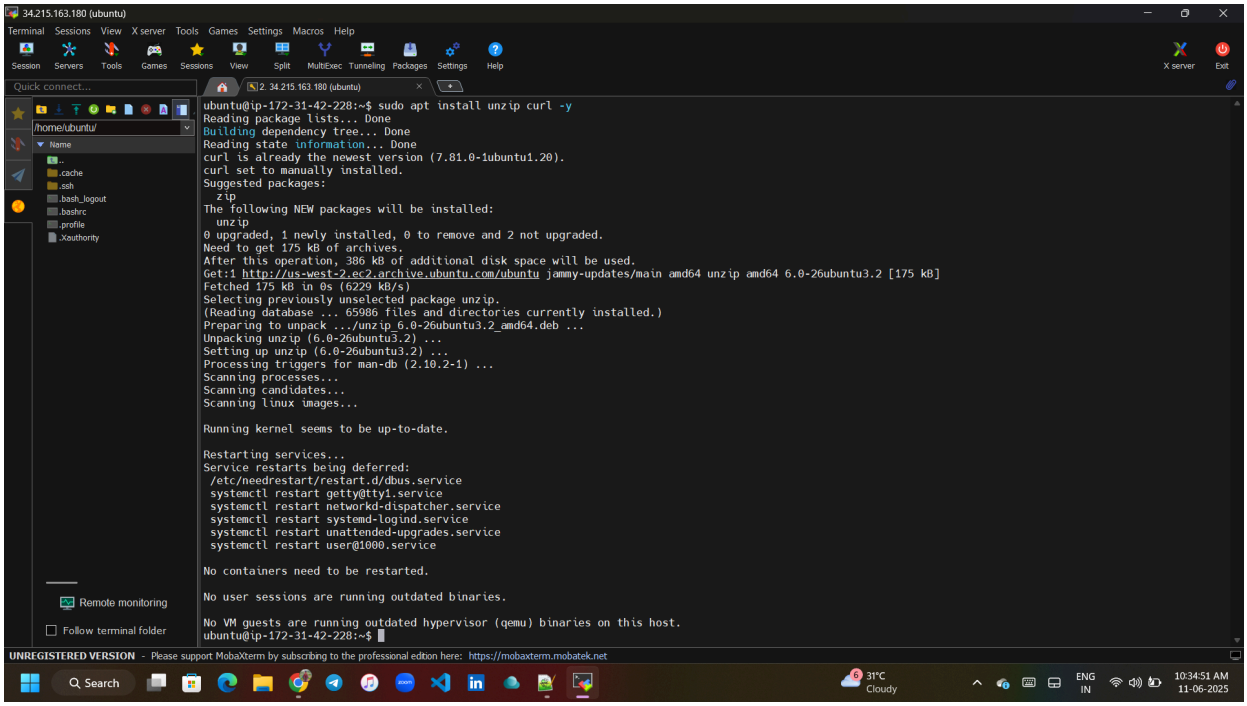
34.215.163.180 (ubuntu)
Terminal Sessions View X server Tools Games Settings Macros Help
Session Servers Tools Games Sessions View Split MultiExec Tunneling Packages Settings Help
X server Exit
Quick connect...
2. 34.215.163.180 (ubuntu)
/home/ubuntu/
Name
.cache
.ssh
.bash_logout
.bashrc
.profile
.Xauthority
Remote monitoring
Follow terminal folder
ubuntu@ip-172-31-42-228:~$ sudo apt install unzip curl -y
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
curl is already the newest version (7.81.0-1ubuntu1.20).
curl set to manually installed.
Suggested packages:
zip
The following NEW packages will be installed:
unzip
0 upgraded, 1 newly installed, 0 to remove and 2 not upgraded.
Need to get 175 kB of archives.
After this operation, 386 kB of additional disk space will be used.
Get:1 http://us-west-2.ec2.archive.ubuntu.com/ubuntu jammy-updates/main amd64 unzip amd64 6.0-26ubuntu3.2 [175 kB]
Fetched 175 kB in 0s (6229 kB/s)
Selecting previously unselected package unzip.
(Reading database ... 65986 files and directories currently installed.)
Preparing to unpack .../unzip_6.0-26ubuntu3.2_amd64.deb ...
Unpacking unzip (6.0-26ubuntu3.2) ...
Setting up unzip (6.0-26ubuntu3.2) ...
Processing triggers for man-db (2.10.2-1) ...
Scanning processes...
Scanning candidates...
Scanning linux images...
Running kernel seems to be up-to-date.
Restarting services...
Service restarts being deferred:
/etc/needrestart/restart.d/dbus.service
systemctl restart getty@tty1.service
systemctl restart networkd-dispatcher.service
systemctl restart systemd-logind.service
systemctl restart unattended-upgrades.service
systemctl restart user@1000.service
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.
ubuntu@ip-172-31-42-228:~$
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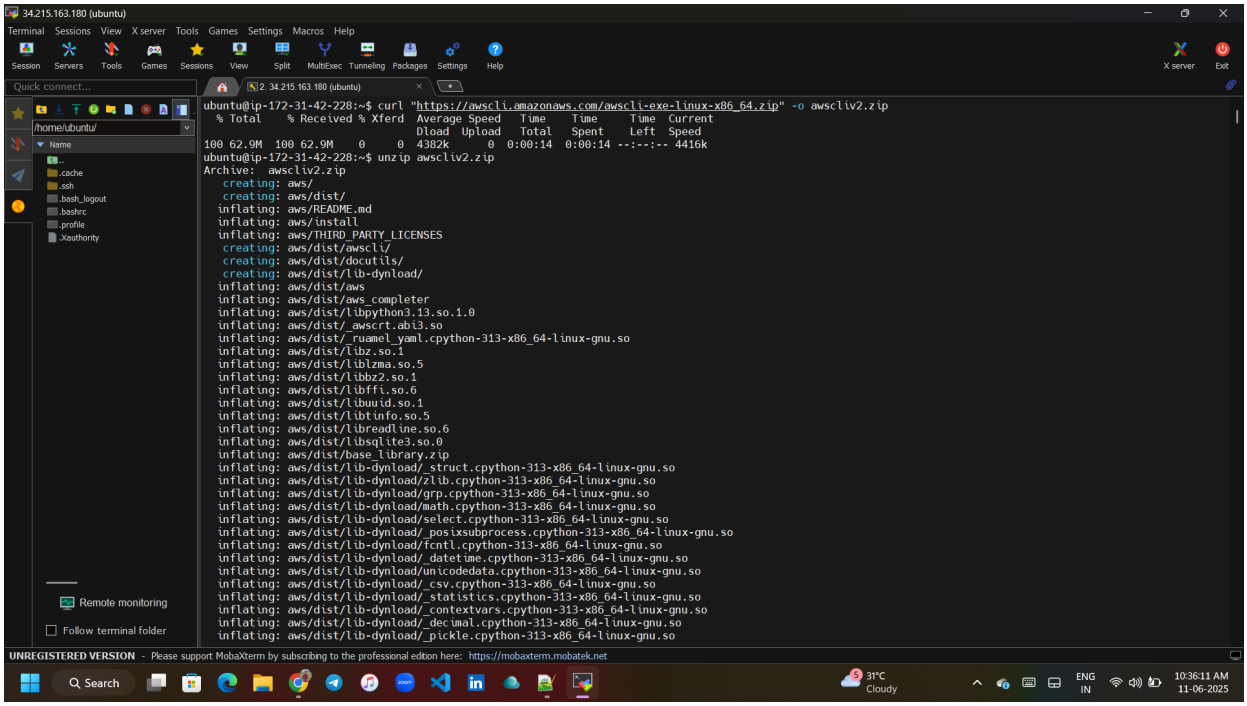
34.215.163.180 (ubuntu)
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X server Exit
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/home/ubuntu/
Name
.cache
.ssh
.bash_logout
.bashrc
.profile
.Xauthority
Remote monitoring
Follow terminal folder
ubuntu@ip-172-31-42-228:~$ curl "https://awscli.amazonaws.com/awscli-exe-linux-x86_64.zip" -o awscliv2.zip
% Total % Received % Xferd Average Speed Time Time Time Current
Dload Upload Total Spent Left Speed
100 62.9M 100 62.9M 0 0 4382k 0 0:00:14 0:00:14 --:--:-- 4416k
ubuntu@ip-172-31-42-228:~$ unzip awscliv2.zip
Archive: awscliv2.zip
creating: aws/
creating: aws/dist/
inflating: aws/README.md
inflating: aws/install
inflating: aws/THIRD_PARTY_LICENSES
creating: aws/dist/awscli/
creating: aws/dist/docutils/
creating: aws/dist/lib-dynload/
inflating: aws/dist/aws
inflating: aws/dist/aws_completer
inflating: aws/dist/libpython3.13.so.1.0
inflating: aws/dist/_awscrt.abi3.so
inflating: aws/dist/_ruamel_yaml.cpython-313-x86_64-linux-gnu.so
inflating: aws/dist/libz.so.1
inflating: aws/dist/liblzma.so.5
inflating: aws/dist/libbz2.so.1
inflating: aws/dist/libffi.so.6
inflating: aws/dist/libuuid.so.1
inflating: aws/dist/libtinfo.so.5
inflating: aws/dist/libreadline.so.6
inflating: aws/dist/libsqlite3.so.0
inflating: aws/dist/base_library.zip
inflating: aws/dist/lib-dynload/_struct.cpython-313-x86_64-linux-gnu.so
inflating: aws/dist/lib-dynload/zlib.cpython-313-x86_64-linux-gnu.so
inflating: aws/dist/lib-dynload/grp.cpython-313-x86_64-linux-gnu.so
inflating: aws/dist/lib-dynload/math.cpython-313-x86_64-linux-gnu.so
inflating: aws/dist/lib-dynload/select.cpython-313-x86_64-linux-gnu.so
inflating: aws/dist/lib-dynload/_posixsubprocess.cpython-313-x86_64-linux-gnu.so
inflating: aws/dist/lib-dynload/fcntl.cpython-313-x86_64-linux-gnu.so
inflating: aws/dist/lib-dynload/_datetime.cpython-313-x86_64-linux-gnu.so
inflating: aws/dist/lib-dynload/unicodedata.cpython-313-x86_64-linux-gnu.so
inflating: aws/dist/lib-dynload/_csv.cpython-313-x86_64-linux-gnu.so
inflating: aws/dist/lib-dynload/_statistics.cpython-313-x86_64-linux-gnu.so
inflating: aws/dist/lib-dynload/_contextvars.cpython-313-x86_64-linux-gnu.so
inflating: aws/dist/lib-dynload/_decimal.cpython-313-x86_64-linux-gnu.so
inflating: aws/dist/lib-dynload/_pickle.cpython-313-x86_64-linux-gnu.so
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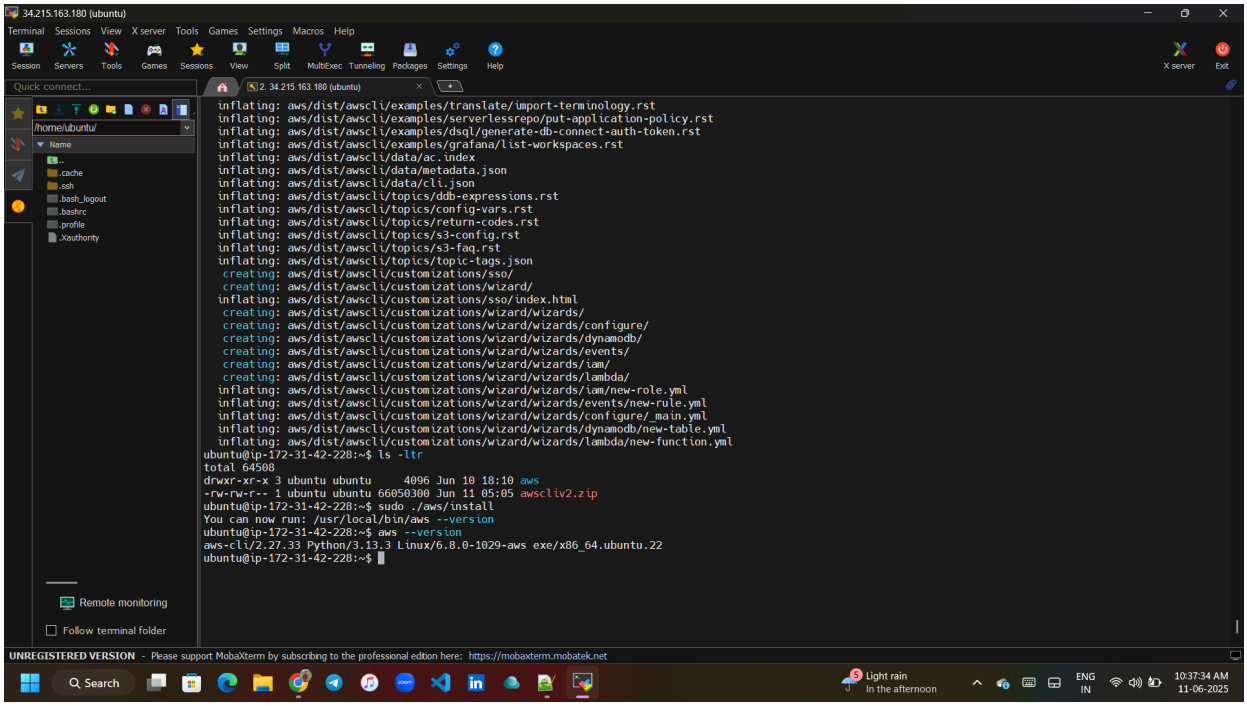
34.215.163.180 (ubuntu)
Terminal Sessions View X server Tools Games Settings Macros Help
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Quick connect...
2. 34.215.163.180 (ubuntu)
/home/ubuntu/
Name
.cache
.ssh
.bash_logout
.bashrc
.profile
.Xauthority
Remote monitoring
Follow terminal folder
inflating: aws/dist/awscli/examples/translate/import-terminology.rst
inflating: aws/dist/awscli/examples/serverlessrepo/put-application-policy.rst
inflating: aws/dist/awscli/examples/dsql/generate-db-connect-auth-token.rst
inflating: aws/dist/awscli/examples/grafana/list-workspaces.rst
inflating: aws/dist/awscli/data/ac.index
inflating: aws/dist/awscli/data/metadata.json
inflating: aws/dist/awscli/data/cli.json
inflating: aws/dist/awscli/topics/ddb-expressions.rst
inflating: aws/dist/awscli/topics/config-vars.rst
inflating: aws/dist/awscli/topics/return-codes.rst
inflating: aws/dist/awscli/topics/s3-config.rst
inflating: aws/dist/awscli/topics/s3-faq.rst
inflating: aws/dist/awscli/topics/topic-tags.json
creating: aws/dist/awscli/customizations/sso/
creating: aws/dist/awscli/customizations/wizard/
inflating: aws/dist/awscli/customizations/sso/index.html
creating: aws/dist/awscli/customizations/wizard/wizards/
creating: aws/dist/awscli/customizations/wizard/wizards/configure/
creating: aws/dist/awscli/customizations/wizard/wizards/dynamodb/
creating: aws/dist/awscli/customizations/wizard/wizards/events/
creating: aws/dist/awscli/customizations/wizard/wizards/iam/
creating: aws/dist/awscli/customizations/wizard/wizards/lambda/
inflating: aws/dist/awscli/customizations/wizard/wizards/iam/new-role.yml
inflating: aws/dist/awscli/customizations/wizard/wizards/events/new-rule.yml
inflating: aws/dist/awscli/customizations/wizard/wizards/configure/_main.yml
inflating: aws/dist/awscli/customizations/wizard/wizards/dynamodb/new-table.yml
inflating: aws/dist/awscli/customizations/wizard/wizards/lambda/new-function.yml
ubuntu@ip-172-31-42-228:~$ ls -ltr
total 64508
drwxr-xr-x 3 ubuntu ubuntu 4096 Jun 10 18:10 aws
-rw-rw-r-- 1 ubuntu ubuntu 66050300 Jun 11 05:05 awscliv2.zip
ubuntu@ip-172-31-42-228:~$ sudo ./aws/install
You can now run: /usr/local/bin/aws --version
ubuntu@ip-172-31-42-228:~$ aws --version
aws-cli/2.27.33 Python/3.13.3 Linux/6.8.0-1029-aws exe/x86_64.ubuntu.22
ubuntu@ip-172-31-42-228:~$
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Search
Light rain
In the afternoon
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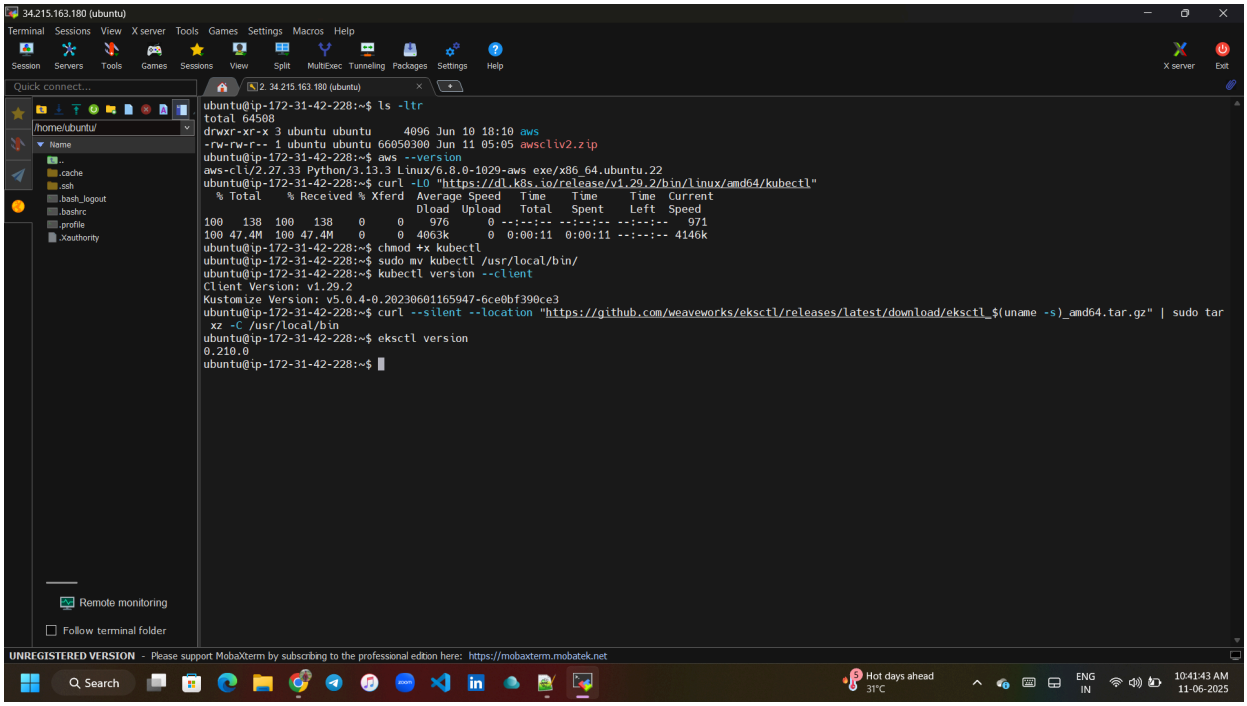
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Name
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.bash_logout
.bashrc
.profile
.Xauthority
Remote monitoring
Follow terminal folder
ubuntu@ip-172-31-42-228:~$ ls -ltr
total 64508
drwxr-xr-x 3 ubuntu ubuntu 4096 Jun 10 18:10 aws
-rw-rw-r-- 1 ubuntu ubuntu 66050300 Jun 11 05:05 awscliv2.zip
ubuntu@ip-172-31-42-228:~$ aws --version
aws-cli/2.27.33 Python/3.13.3 Linux/6.8.0-1029-aws exe/x86_64.ubuntu.22
ubuntu@ip-172-31-42-228:~$ curl -LO "https://dl.k8s.io/release/v1.29.2/bin/linux/amd64/kubectl"
% Total % Received % Xferd Average Speed Time Time Time Current
Dload Upload Total Spent Left Speed
100 138 100 138 0 0 976 0 --:--:-- --:--:-- --:--:-- 971
100 47.4M 100 47.4M 0 0 4063k 0 0:00:11 0:00:11 --:--:-- 4146k
ubuntu@ip-172-31-42-228:~$ chmod +x kubectl
ubuntu@ip-172-31-42-228:~$ sudo mv kubectl /usr/local/bin/
ubuntu@ip-172-31-42-228:~$ kubectl version --client
Client Version: v1.29.2
Kustomize Version: v5.0.4-0.20230601165947-6ce0bf390ce3
ubuntu@ip-172-31-42-228:~$ curl --silent --location "https://github.com/weaveworks/eksctl/releases/latest/download/eksctl_$(uname -s)_amd64.tar.gz" | sudo tar xz -C /usr/local/bin
ubuntu@ip-172-31-42-228:~$ eksctl version
0.210.0
ubuntu@ip-172-31-42-228:~$
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Hot days ahead
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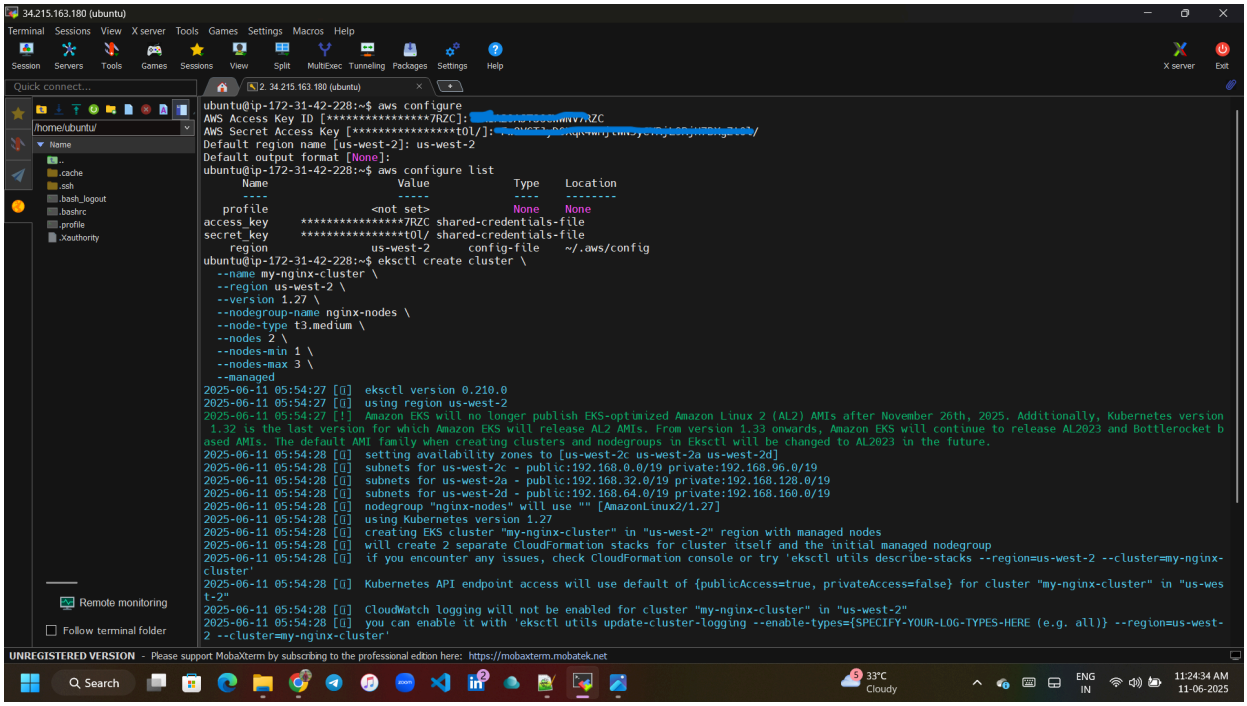
34.215.163.180 (ubuntu)
ubuntu@ip-172-31-42-228:~$ aws configure
AWS Access Key ID [****************7RZC]:
AWS Secret Access Key [****************tOl/]:
Default region name [us-west-2]: us-west-2
Default output format [None]:
ubuntu@ip-172-31-42-228:~$ aws configure list
Name Value Type Location
profile <not set> None None
access_key ****************7RZC shared-credentials-file
secret_key ****************tOl/ shared-credentials-file
region us-west-2 config-file ~/.aws/config
ubuntu@ip-172-31-42-228:~$ eksctl create cluster \
--name my-nginx-cluster \
--region us-west-2 \
--version 1.27 \
--nodegroup-name nginx-nodes \
--node-type t3.medium \
--nodes 2 \
--nodes-min 1 \
--nodes-max 3 \
--managed
2025-06-11 05:54:27 [ℹ] eksctl version 0.210.0
2025-06-11 05:54:27 [ℹ] using region us-west-2
2025-06-11 05:54:27 [!] Amazon EKS will no longer publish EKS-optimized Amazon Linux 2 (AL2) AMIs after November 26th, 2025. Additionally, Kubernetes version 1.32 is the last version for which Amazon EKS will release AL2 AMIs. From version 1.33 onwards, Amazon EKS will continue to release AL2023 and Bottlerocket based AMIs. The default AMI family when creating clusters and nodegroups in Eksctl will be changed to AL2023 in the future.
2025-06-11 05:54:28 [ℹ] setting availability zones to [us-west-2c us-west-2a us-west-2d]
2025-06-11 05:54:28 [ℹ] subnets for us-west-2c - public:192.168.0.0/19 private:192.168.96.0/19
2025-06-11 05:54:28 [ℹ] subnets for us-west-2a - public:192.168.32.0/19 private:192.168.128.0/19
2025-06-11 05:54:28 [ℹ] subnets for us-west-2d - public:192.168.64.0/19 private:192.168.160.0/19
2025-06-11 05:54:28 [ℹ] nodegroup "nginx-nodes" will use "" [AmazonLinux2/1.27]
2025-06-11 05:54:28 [ℹ] using Kubernetes version 1.27
2025-06-11 05:54:28 [ℹ] creating EKS cluster "my-nginx-cluster" in "us-west-2" region with managed nodes
2025-06-11 05:54:28 [ℹ] will create 2 separate CloudFormation stacks for cluster itself and the initial managed nodegroup
2025-06-11 05:54:28 [ℹ] if you encounter any issues, check CloudFormation console or try 'eksctl utils describe-stacks --region=us-west-2 --cluster=my-nginx-cluster'
2025-06-11 05:54:28 [ℹ] Kubernetes API endpoint access will use default of {publicAccess=true, privateAccess=false} for cluster "my-nginx-cluster" in "us-west-2"
2025-06-11 05:54:28 [ℹ] CloudWatch logging will not be enabled for cluster "my-nginx-cluster" in "us-west-2"
2025-06-11 05:54:28 [ℹ] you can enable it with 'eksctl utils update-cluster-logging --enable-types={SPECIFY-YOUR-LOG-TYPES-HERE (e.g. all)} --region=us-west-2 --cluster=my-nginx-cluster'
Remote monitoring
Follow terminal folder
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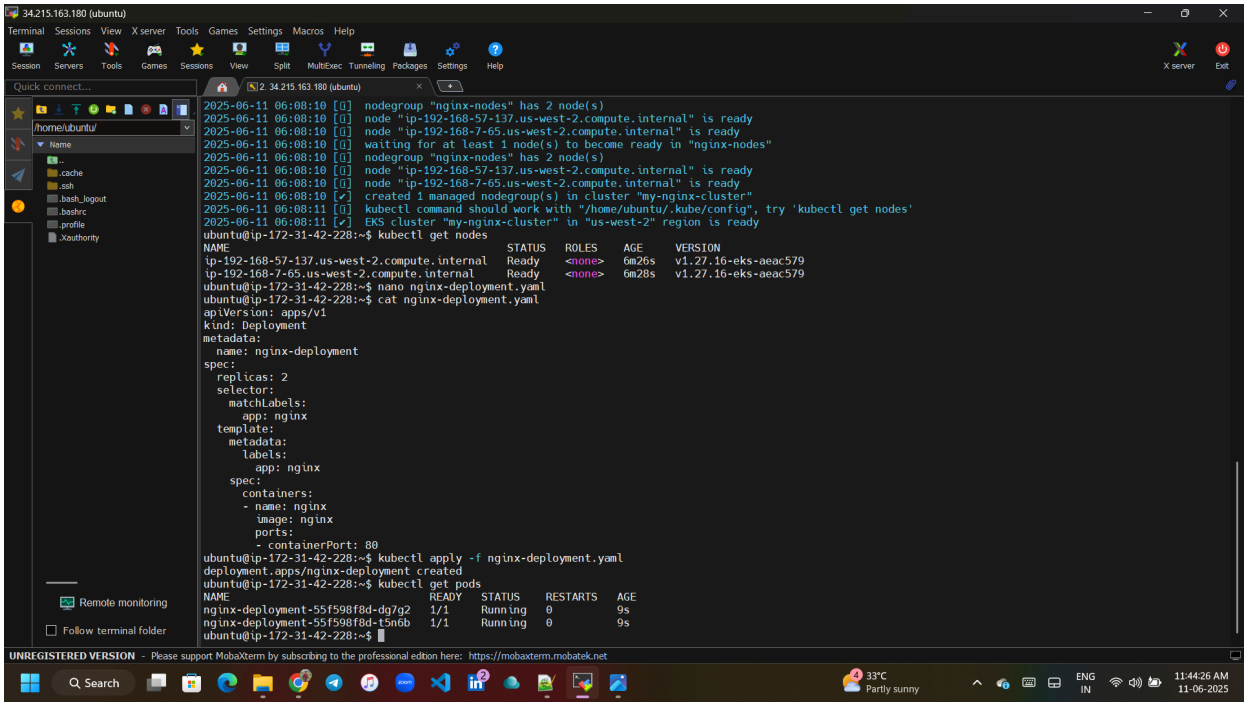
33°C Cloudy
ENG IN
11:24:34 AM 11-06-2025


34.215.163.180 (ubuntu)
2025-06-11 06:08:10 [ℹ] nodegroup "nginx-nodes" has 2 node(s)
2025-06-11 06:08:10 [ℹ] node "ip-192-168-57-137.us-west-2.compute.internal" is ready
2025-06-11 06:08:10 [ℹ] node "ip-192-168-7-65.us-west-2.compute.internal" is ready
2025-06-11 06:08:10 [ℹ] waiting for at least 1 node(s) to become ready in "nginx-nodes"
2025-06-11 06:08:10 [ℹ] nodegroup "nginx-nodes" has 2 node(s)
2025-06-11 06:08:10 [ℹ] node "ip-192-168-57-137.us-west-2.compute.internal" is ready
2025-06-11 06:08:10 [ℹ] node "ip-192-168-7-65.us-west-2.compute.internal" is ready
2025-06-11 06:08:10 [✔] created 1 managed nodegroup(s) in cluster "my-nginx-cluster"
2025-06-11 06:08:11 [ℹ] kubectl command should work with "/home/ubuntu/.kube/config", try 'kubectl get nodes'
2025-06-11 06:08:11 [✔] EKS cluster "my-nginx-cluster" in "us-west-2" region is ready
ubuntu@ip-172-31-42-228:~$ kubectl get nodes
NAME STATUS ROLES AGE VERSION
ip-192-168-57-137.us-west-2.compute.internal Ready <none> 6m26s v1.27.16-eks-aeac579
ip-192-168-7-65.us-west-2.compute.internal Ready <none> 6m28s v1.27.16-eks-aeac579
ubuntu@ip-172-31-42-228:~$ nano nginx-deployment.yaml
ubuntu@ip-172-31-42-228:~$ cat nginx-deployment.yaml
apiVersion: apps/v1
kind: Deployment
metadata:
name: nginx-deployment
spec:
replicas: 2
selector:
matchLabels:
app: nginx
template:
metadata:
labels:
app: nginx
spec:
containers:
- name: nginx
image: nginx
ports:
- containerPort: 80
ubuntu@ip-172-31-42-228:~$ kubectl apply -f nginx-deployment.yaml
deployment.apps/nginx-deployment created
ubuntu@ip-172-31-42-228:~$ kubectl get pods
NAME READY STATUS RESTARTS AGE
nginx-deployment-55f598f8d-dg7g2 1/1 Running 0 9s
nginx-deployment-55f598f8d-t5n6b 1/1 Running 0 9s
ubuntu@ip-172-31-42-228:~$
Remote monitoring
Follow terminal folder
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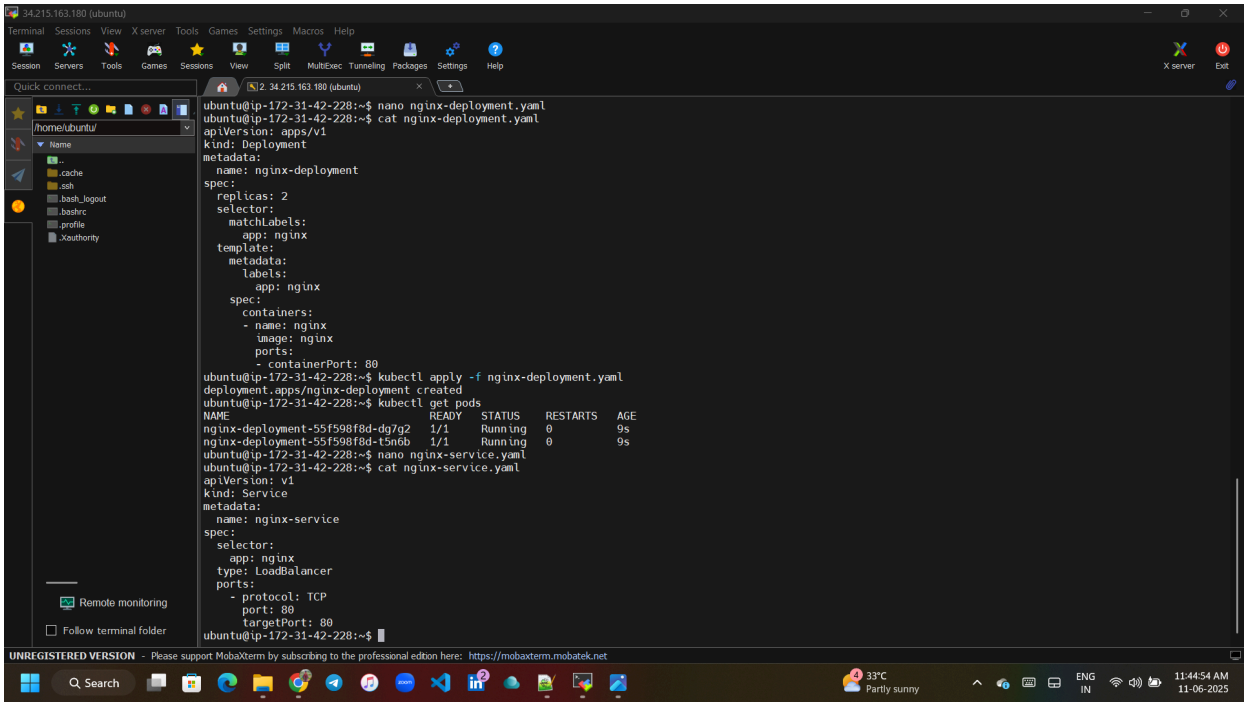
33°C Partly sunny
ENG IN
11:44:26 AM 11-06-2025


34.215.163.180 (ubuntu)
Terminal Sessions View X server Tools Games Settings Macros Help
Session Servers Tools Games Sessions View Split MultiExec Tunneling Packages Settings Help
X server Exit
Quick connect...
2. 34.215.163.180 (ubuntu)
/home/ubuntu/
Name
.cache
.ssh
.bash_logout
.bashrc
.profile
.Xauthority
Remote monitoring
Follow terminal folder
ubuntu@ip-172-31-42-228:~$ nano nginx-deployment.yaml
ubuntu@ip-172-31-42-228:~$ cat nginx-deployment.yaml
apiVersion: apps/v1
kind: Deployment
metadata:
name: nginx-deployment
spec:
replicas: 2
selector:
matchLabels:
app: nginx
template:
metadata:
labels:
app: nginx
spec:
containers:
- name: nginx
image: nginx
ports:
- containerPort: 80
ubuntu@ip-172-31-42-228:~$ kubectl apply -f nginx-deployment.yaml
deployment.apps/nginx-deployment created
ubuntu@ip-172-31-42-228:~$ kubectl get pods
NAME READY STATUS RESTARTS AGE
nginx-deployment-55f598f8d-dg7g2 1/1 Running 0 9s
nginx-deployment-55f598f8d-t5n6b 1/1 Running 0 9s
ubuntu@ip-172-31-42-228:~$ nano nginx-service.yaml
ubuntu@ip-172-31-42-228:~$ cat nginx-service.yaml
apiVersion: v1
kind: Service
metadata:
name: nginx-service
spec:
selector:
app: nginx
type: LoadBalancer
ports:
- protocol: TCP
port: 80
targetPort: 80
ubuntu@ip-172-31-42-228:~$
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Search
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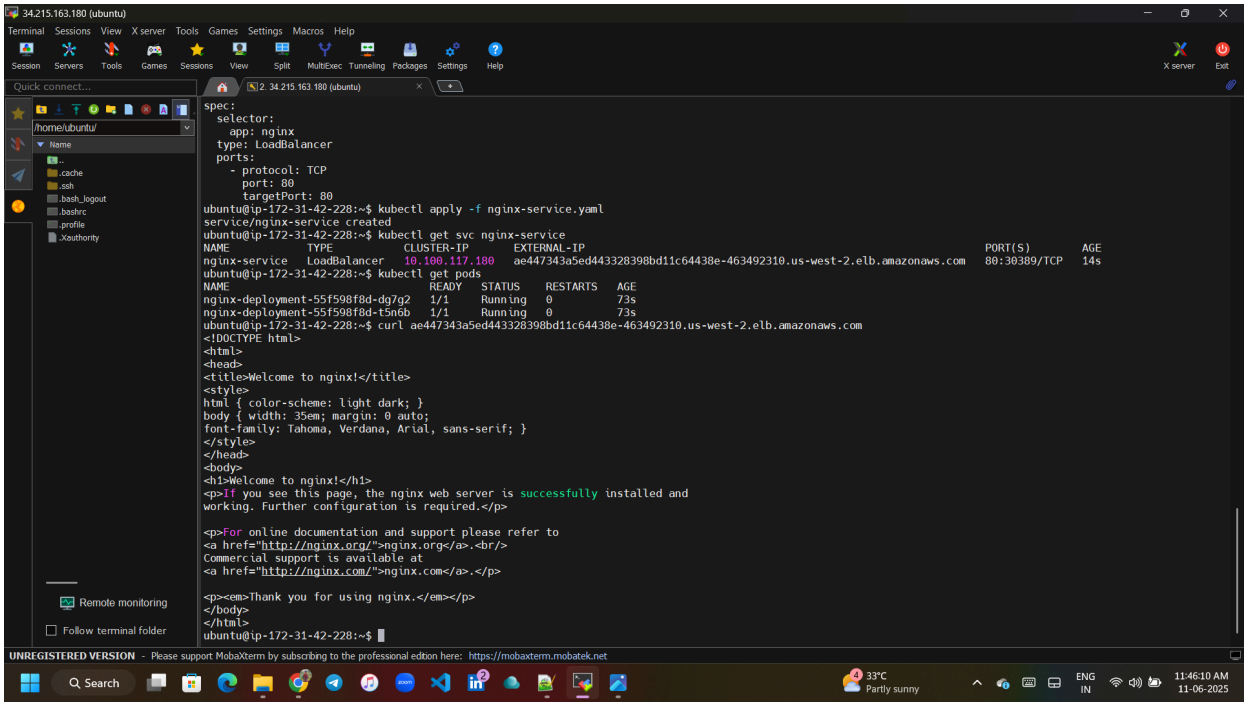
ENG IN
11:44:54 AM 11-06-2025


34.215.163.180 (ubuntu)
Terminal Sessions View X server Tools Games Settings Macros Help
Session Servers Tools Games Sessions View Split MultiExec Tunneling Packages Settings Help
X server Exit
Quick connect...
2. 34.215.163.180 (ubuntu)
/home/ubuntu/
Name
.cache
.ssh
.bash_logout
.bashrc
.profile
.Xauthority
Remote monitoring
Follow terminal folder
spec:
selector:
app: nginx
type: LoadBalancer
ports:
- protocol: TCP
port: 80
targetPort: 80
ubuntu@ip-172-31-42-228:~$ kubectl apply -f nginx-service.yaml
service/nginx-service created
ubuntu@ip-172-31-42-228:~$ kubectl get svc nginx-service
NAME TYPE CLUSTER-IP EXTERNAL-IP PORT(S) AGE
nginx-service LoadBalancer 10.100.117.180 ae447343a5ed443328398bd11c64438e-463492310.us-west-2.elb.amazonaws.com 80:30389/TCP 14s
ubuntu@ip-172-31-42-228:~$ kubectl get pods
NAME READY STATUS RESTARTS AGE
nginx-deployment-55f598f8d-dg7g2 1/1 Running 0 73s
nginx-deployment-55f598f8d-t5n6b 1/1 Running 0 73s
ubuntu@ip-172-31-42-228:~$ curl ae447343a5ed443328398bd11c64438e-463492310.us-west-2.elb.amazonaws.com
<!DOCTYPE html>
<html>
<head>
<title>Welcome to nginx!</title>
<style>
html { color-scheme: light dark; }
body { width: 35em; margin: 0 auto;
font-family: Tahoma, Verdana, Arial, sans-serif; }
</style>
</head>
<body>
<h1>Welcome to nginx!</h1>
If you see this page, the nginx web server is successfully installed and
working. Further configuration is required.
For online documentation and support please refer to
<a href="http://nginx.org/">nginx.org</a>.
Commercial support is available at
<a href="http://nginx.com/">nginx.com</a>.
Thank you for using nginx.
</body>
</html>
ubuntu@ip-172-31-42-228:~$
UNREGISTERED VERSION - Please support MobaXterm by subscribing to the professional edition here: https://mobaxterm.mobatek.net
Search
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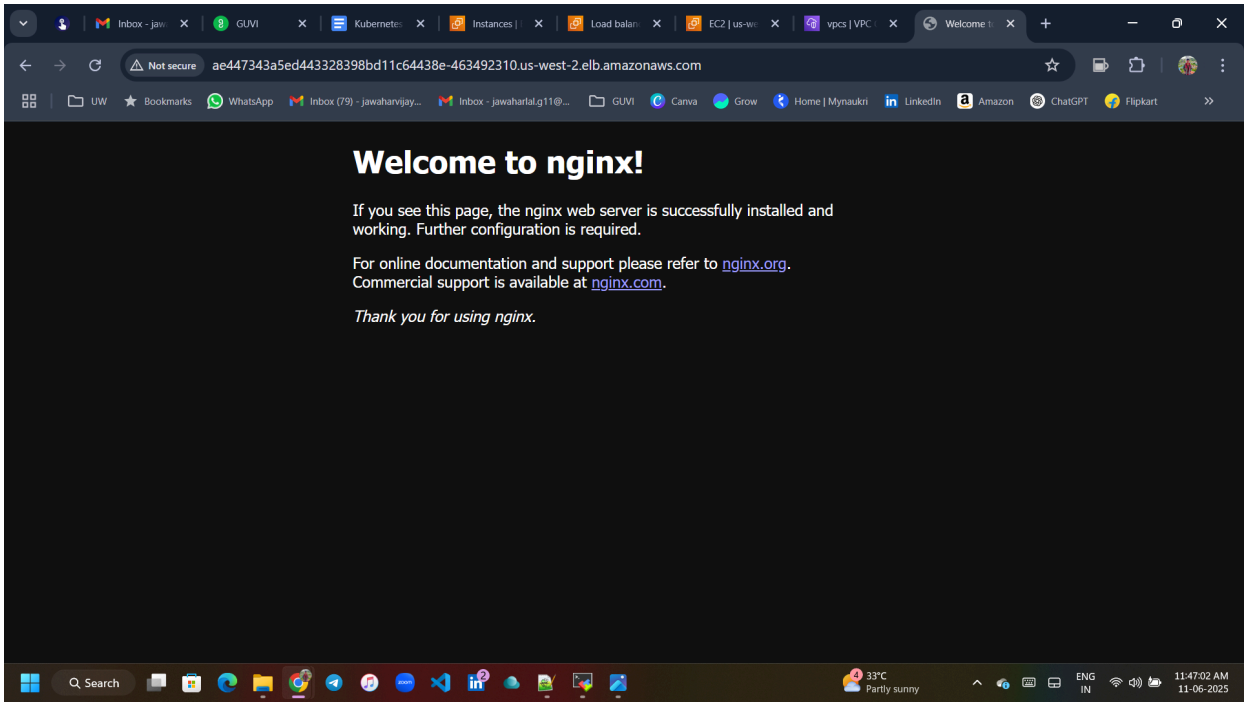
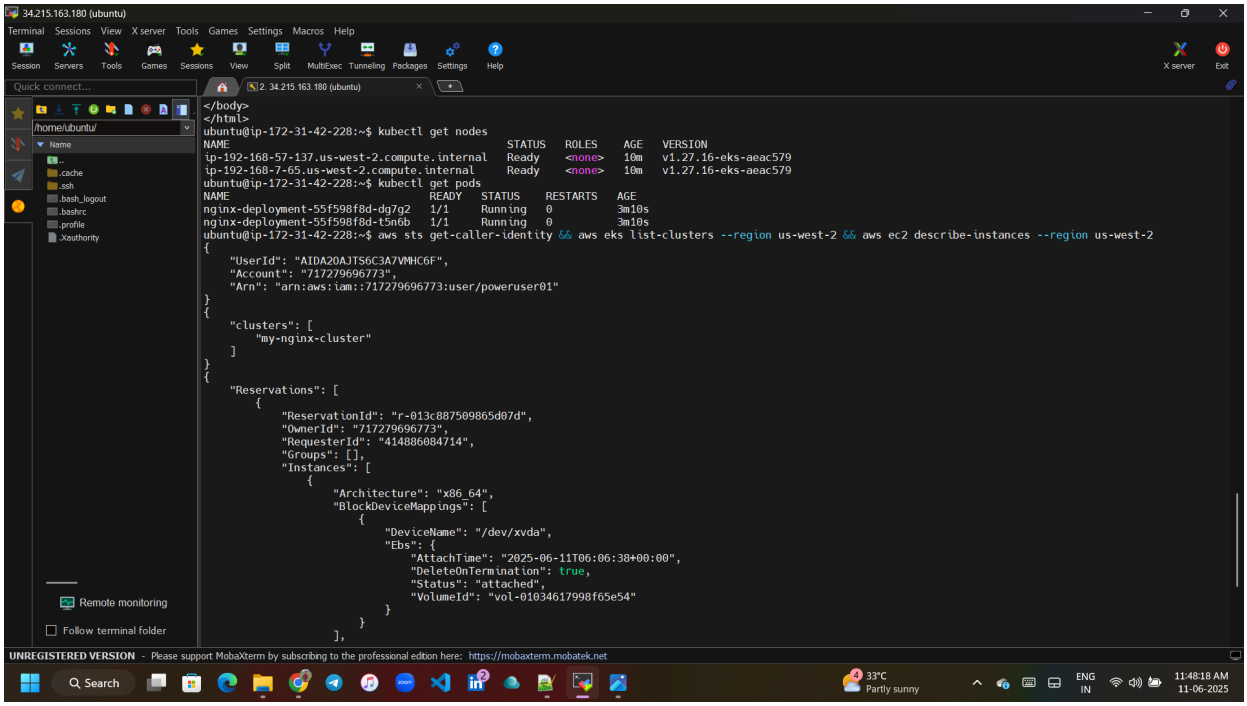
ENG IN
11:46:10 AM 11-06-2025


Not secure
ae447343a5ed443328398bd11c64438e-463492310.us-west-2.elb.amazonaws.com
Welcome to nginx!
If you see this page, the nginx web server is successfully installed and working. Further configuration is required.
For online documentation and support please refer to nginx.org.
Commercial support is available at nginx.com.
Thank you for using nginx.
Search
33°C
Partly sunny
ENG
IN
11:47:02 AM
11-06-2025


34.215.163.180 (ubuntu)
Terminal Sessions View X server Tools Games Settings Macros Help
Session Servers Tools Games Sessions View Split MultiExec Tunneling Packages Settings Help
X server Exit
Quick connect...
2. 34.215.163.180 (ubuntu)
/home/ubuntu/
Name
.cache
.ssh
.bash_logout
.bashrc
.profile
.Xauthority
Remote monitoring
Follow terminal folder
</body>
</html>
ubuntu@ip-172-31-42-228:~$ kubectl get nodes
NAME STATUS ROLES AGE VERSION
ip-192-168-57-137.us-west-2.compute.internal Ready <none> 10m v1.27.16-eks-aeac579
ip-192-168-7-65.us-west-2.compute.internal Ready <none> 10m v1.27.16-eks-aeac579
ubuntu@ip-172-31-42-228:~$ kubectl get pods
NAME READY STATUS RESTARTS AGE
nginx-deployment-55f598f8d-dg7g2 1/1 Running 0 3m10s
nginx-deployment-55f598f8d-t5n6b 1/1 Running 0 3m10s
ubuntu@ip-172-31-42-228:~$ aws sts get-caller-identity && aws eks list-clusters --region us-west-2 && aws ec2 describe-instances --region us-west-2
{
"UserId": "AIDA2OAJTS6C3A7VMHC6F",
"Account": "717279696773",
"Arn": "arn:aws:iam::717279696773:user/poweruser01"
}
{
"clusters": [
"my-nginx-cluster"
]
}
{
"Reservations": [
{
"ReservationId": "r-013c887509865d07d",
"OwnerId": "717279696773",
"RequesterId": "414886084714",
"Groups": [],
"Instances": [
{
"Architecture": "x86_64",
"BlockDeviceMappings": [
{
"DeviceName": "/dev/xvda",
"Ebs": {
"AttachTime": "2025-06-11T06:06:38+00:00",
"DeleteOnTermination": true,
"Status": "attached",
"VolumeId": "vol-01034617998f65e54"
}
}
],
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Search
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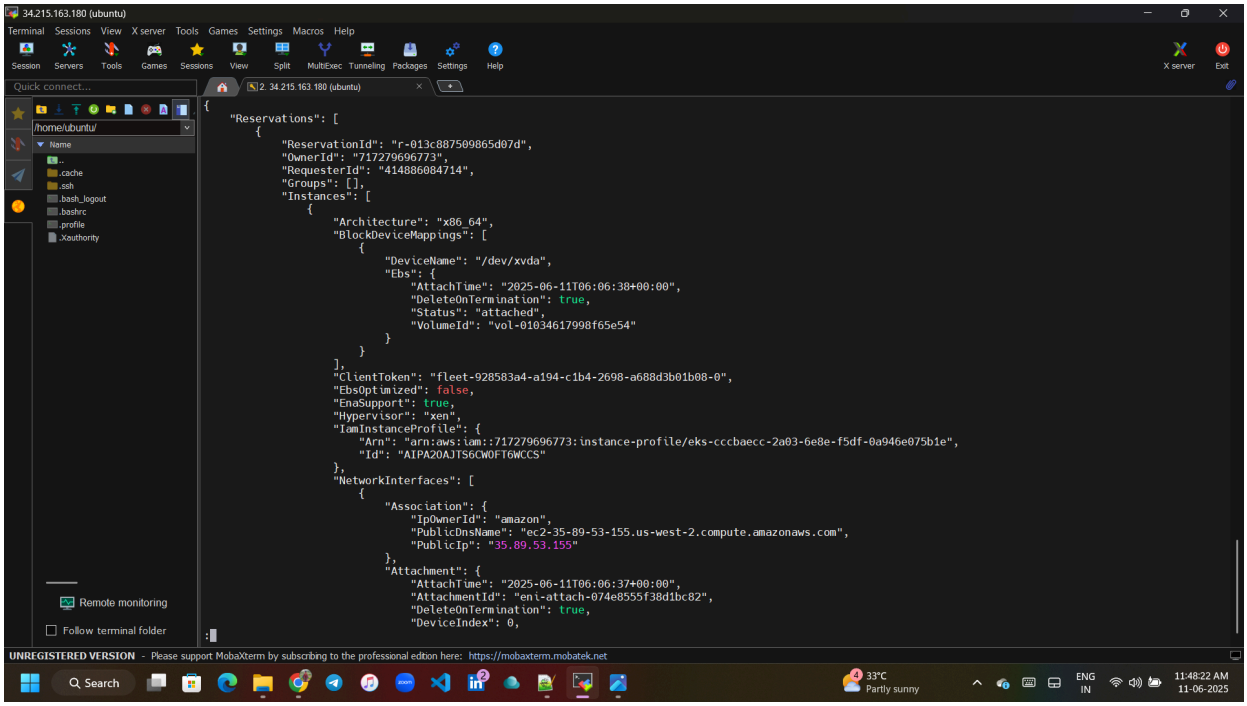
ENG IN
11:48:18 AM 11-06-2025


34.215.163.180 (ubuntu)
Terminal Sessions View X server Tools Games Settings Macros Help
Session Servers Tools Games Sessions View Split MultiExec Tunneling Packages Settings Help
X server Exit
Quick connect...
2. 34.215.163.180 (ubuntu)
/home/ubuntu/
Name
.cache
.ssh
.bash_logout
.bashrc
.profile
.Xauthority
Remote monitoring
Follow terminal folder
{
"Reservations": [
{
"ReservationId": "r-013c887509865d07d",
"OwnerId": "717279696773",
"RequesterId": "414886084714",
"Groups": [],
"Instances": [
{
"Architecture": "x86_64",
"BlockDeviceMappings": [
{
"DeviceName": "/dev/xvda",
"Ebs": {
"AttachTime": "2025-06-11T06:06:38+00:00",
"DeleteOnTermination": true,
"Status": "attached",
"VolumeId": "vol-01034617998f65e54"
}
}
],
"ClientToken": "fleet-928583a4-a194-c1b4-2698-a688d3b01b08-0",
"EbsOptimized": false,
"EnaSupport": true,
"Hypervisor": "xen",
"IamInstanceProfile": {
"Arn": "arn:aws:iam::717279696773:instance-profile/eks-cccbaecc-2a03-6e8e-f5df-0a946e075b1e",
"Id": "AIPA2OAJTS6CWOFT6WCCS"
},
"NetworkInterfaces": [
{
"Association": {
"IpOwnerId": "amazon",
"PublicDnsName": "ec2-35-89-53-155.us-west-2.compute.amazonaws.com",
"PublicIp": "35.89.53.155"
},
"Attachment": {
"AttachTime": "2025-06-11T06:06:37+00:00",
"AttachmentId": "eni-attach-074e8555f38d1bc82",
"DeleteOnTermination": true,
"DeviceIndex": 0,
:
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Search
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ENG IN
11:48:22 AM 11-06-2025