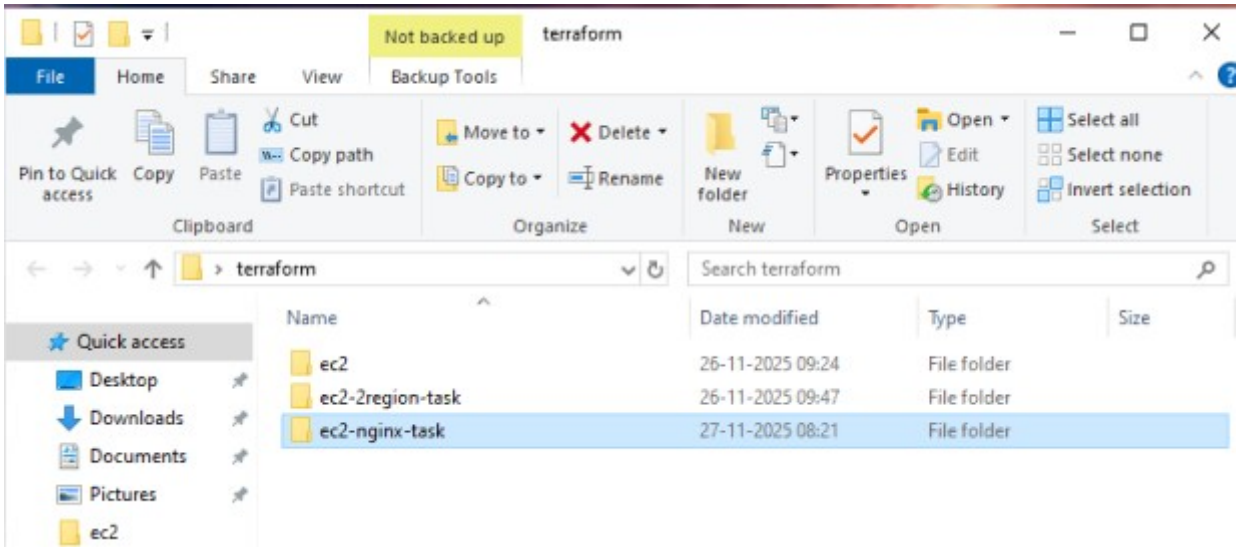
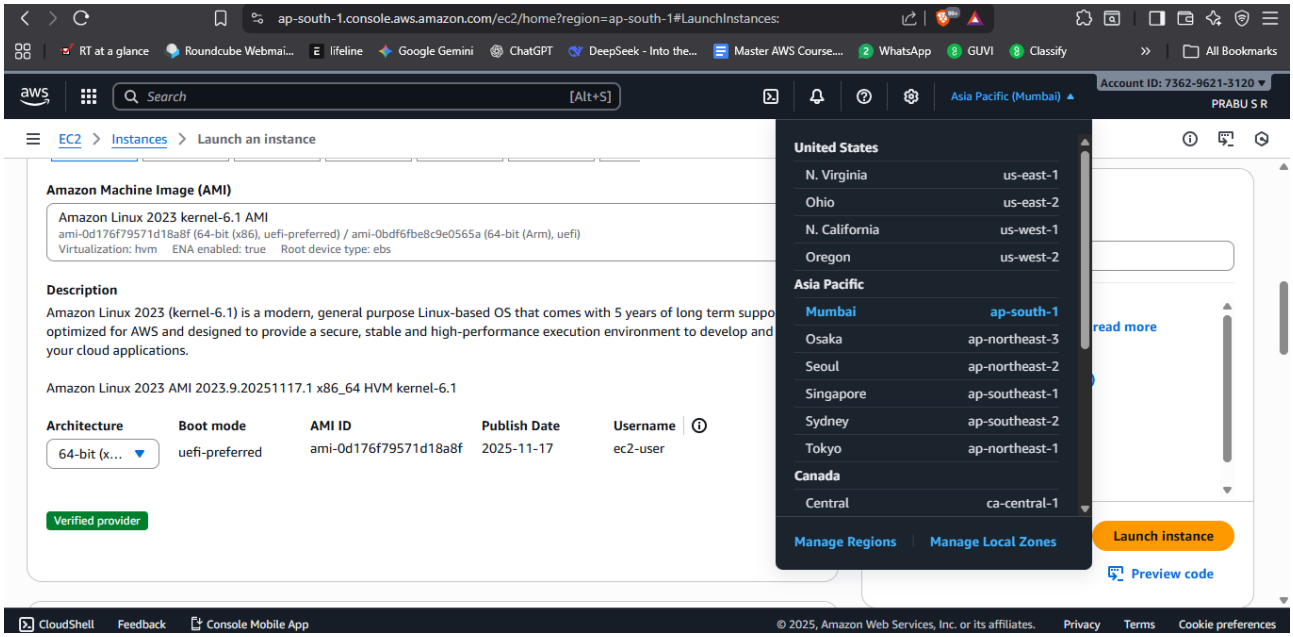
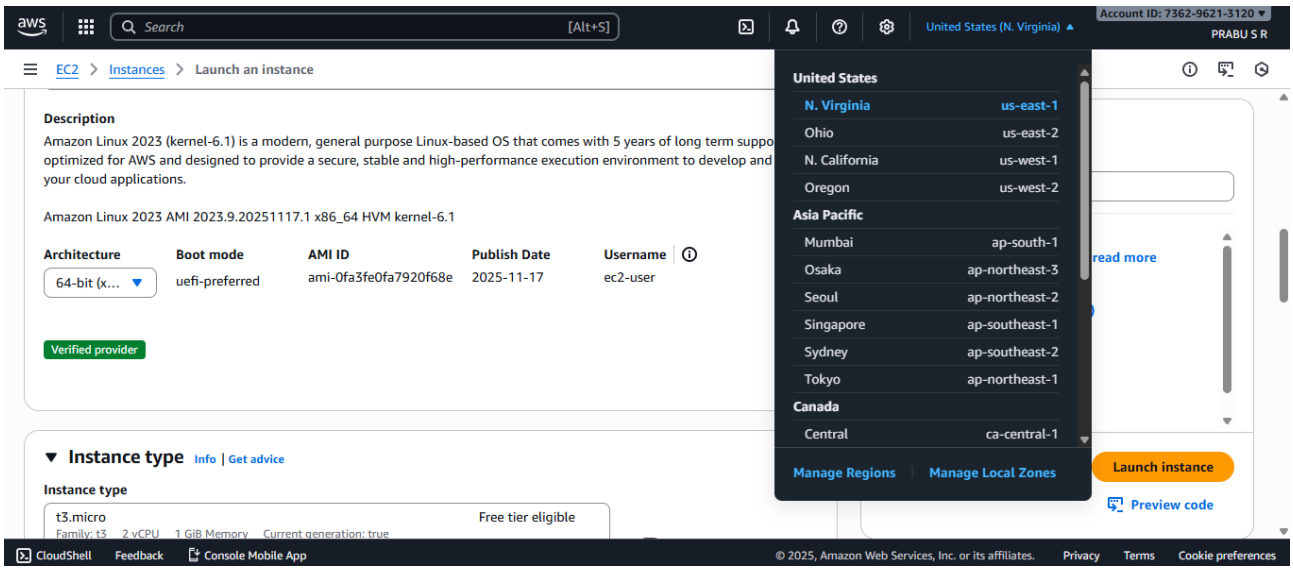
Terraform Task-2

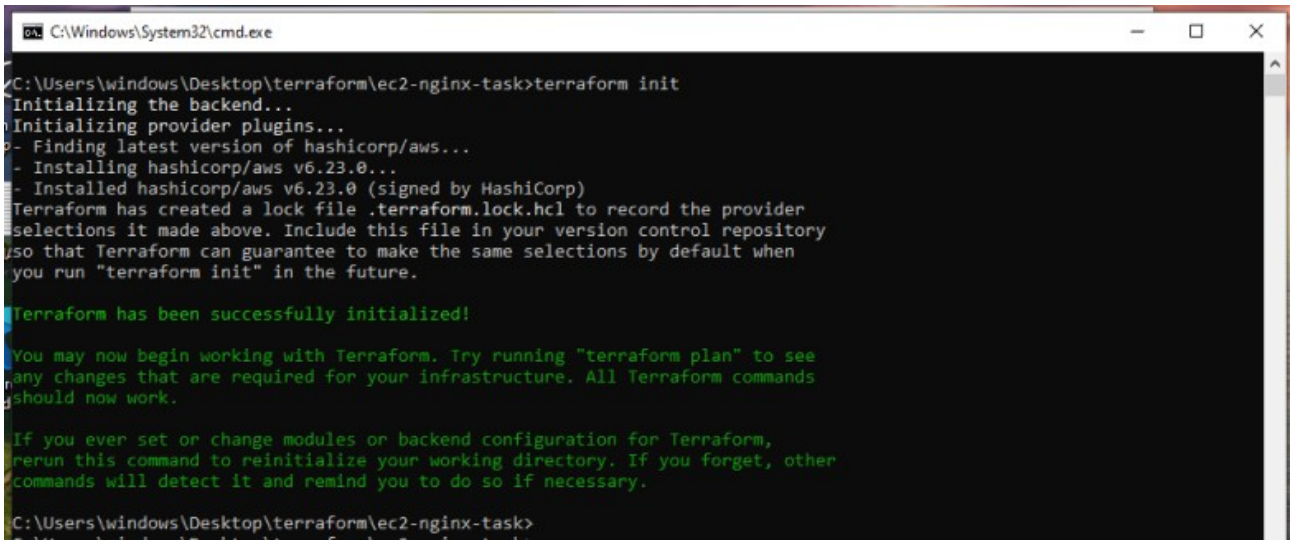
Task Description:

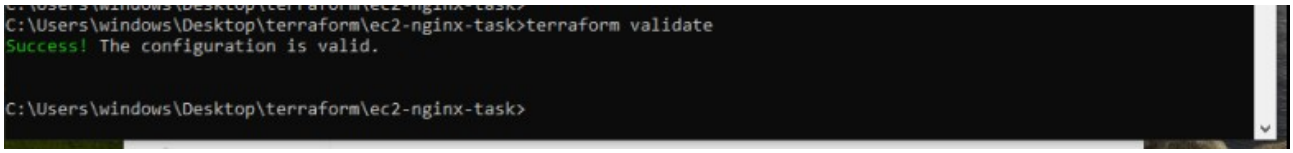
Create 2 EC2 instances on 2 different regions and install nginx using terraform script.

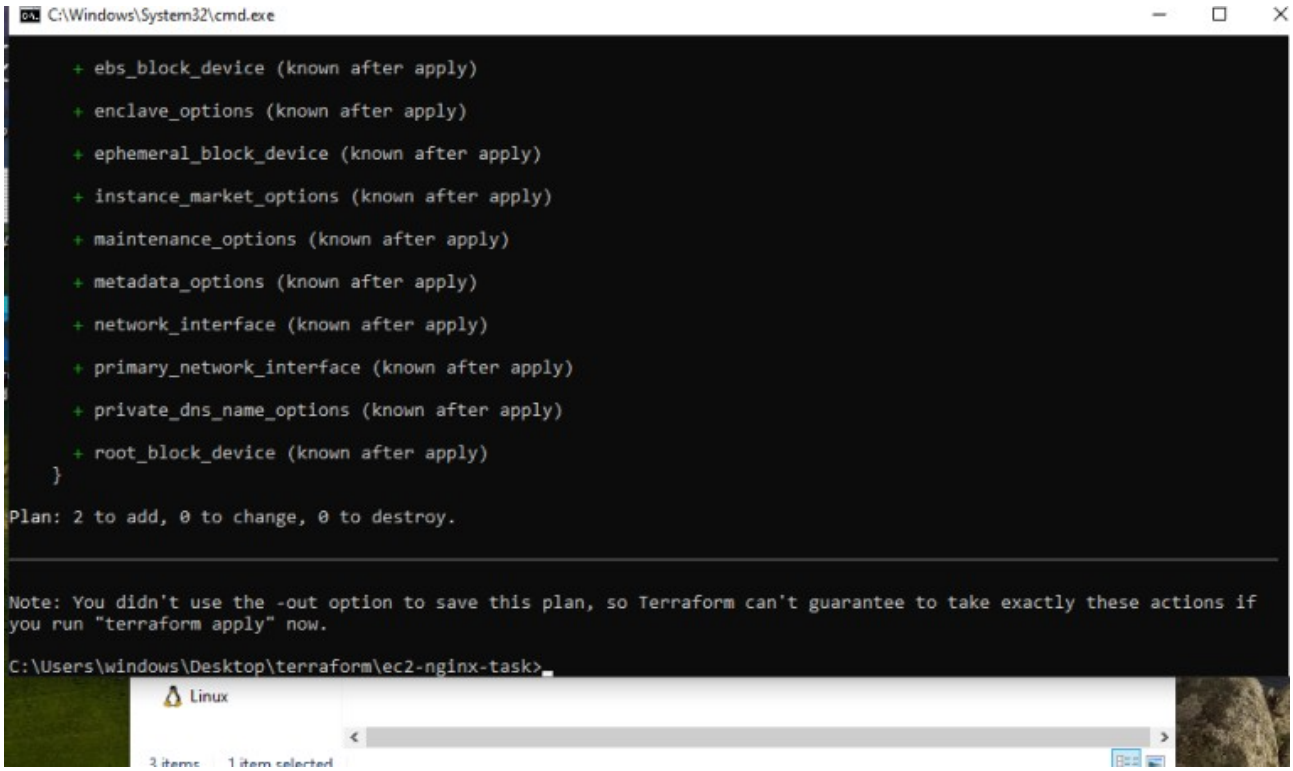


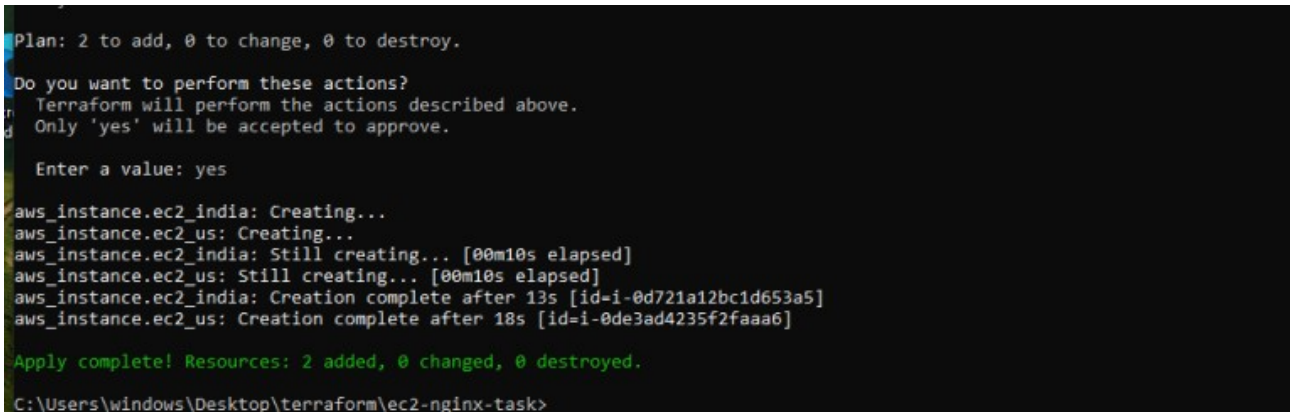


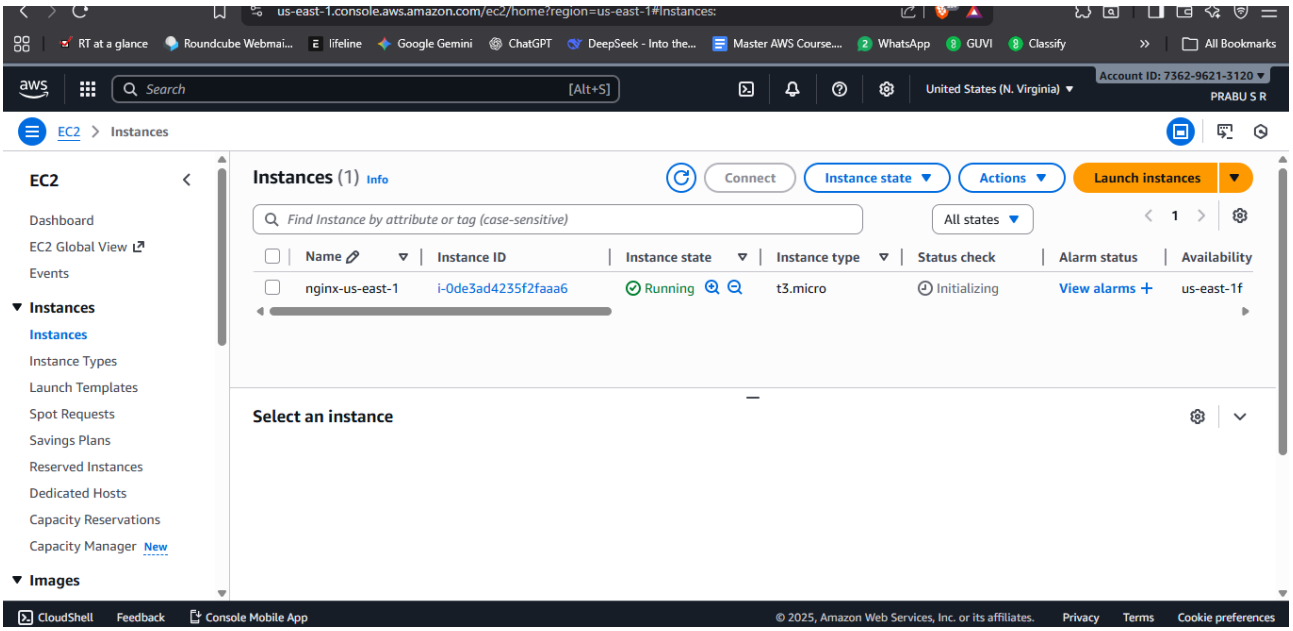

aws
Search
[Alt+S]
United States (N. Virginia)
Account ID: 7362-9621-3120
PRABU S R
EC2 > Instances > Launch an instance
Description
Amazon Linux 2023 (kernel-6.1) is a modern, general purpose Linux-based OS that comes with 5 years of long term suppo
optimized for AWS and designed to provide a secure, stable and high-performance execution environment to develop and
your cloud applications.
Amazon Linux 2023 AMI 2023.9.20251117.1 x86_64 HVM kernel-6.1
Architecture
Boot mode
AMI ID
Publish Date
Username
64-bit (x...
uefi-preferred
ami-0fa3fe0fa7920f68e
2025-11-17
ec2-user
Verified provider
United States
N. Virginia us-east-1
Ohio us-east-2
N. California us-west-1
Oregon us-west-2
Asia Pacific
Mumbai ap-south-1
Osaka ap-northeast-3
Seoul ap-northeast-2
Singapore ap-southeast-1
Sydney ap-southeast-2
Tokyo ap-northeast-1
Canada
Central ca-central-1
Manage Regions
Manage Local Zones
read more
Instance type
Info | Get advice
Instance type
t3.micro
Free tier eligible
Family: t3 2 vCPU 1 GiB Memory Current generation: true
Launch instance
Preview code
CloudShell
Feedback
Console Mobile App
© 2025, Amazon Web Services, Inc. or its affiliates.
Privacy
Terms
Cookie preferences

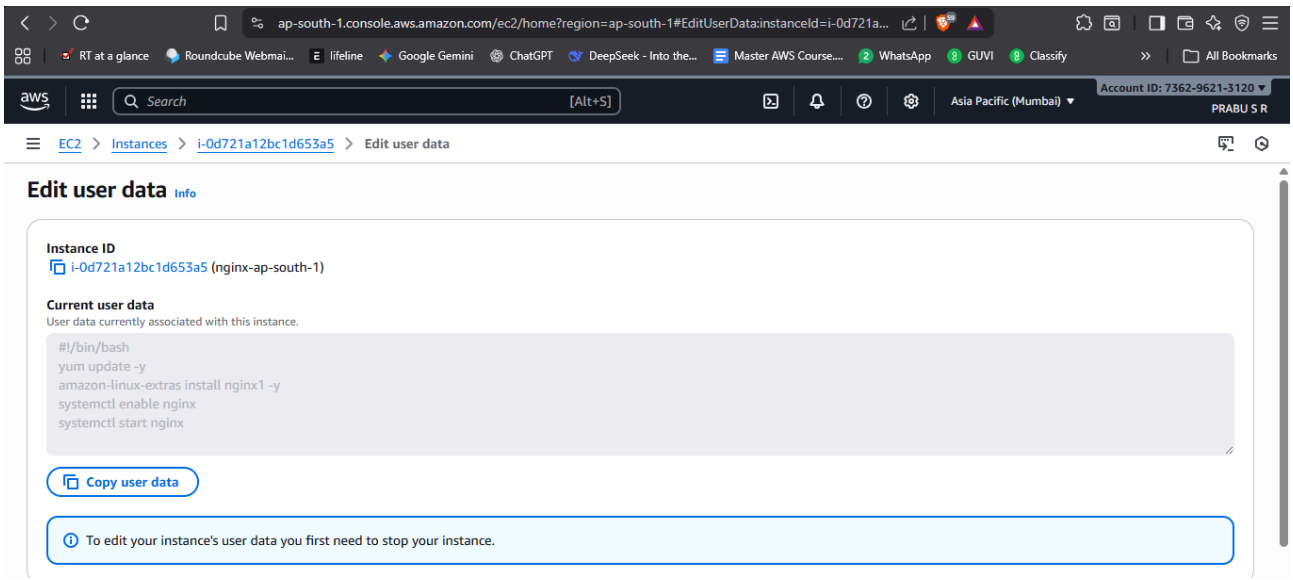

C:\Windows\System32\cmd.exe
C:\Users\windows\Desktop\terraform\ec2-nginx-task>terraform init
Initializing the backend...
Initializing provider plugins...
- Finding latest version of hashicorp/aws...
- Installing hashicorp/aws v6.23.0...
- Installed hashicorp/aws v6.23.0 (signed by HashiCorp)
Terraform has created a lock file .terraform.lock.hcl to record the provider
selections it made above. Include this file in your version control repository
so that Terraform can guarantee to make the same selections by default when
you run "terraform init" in the future.
Terraform has been successfully initialized!
You may now begin working with Terraform. Try running "terraform plan" to see
any changes that are required for your infrastructure. All Terraform commands
should now work.
If you ever set or change modules or backend configuration for Terraform,
rerun this command to reinitialize your working directory. If you forget, other
commands will detect it and remind you to do so if necessary.
C:\Users\windows\Desktop\terraform\ec2-nginx-task>

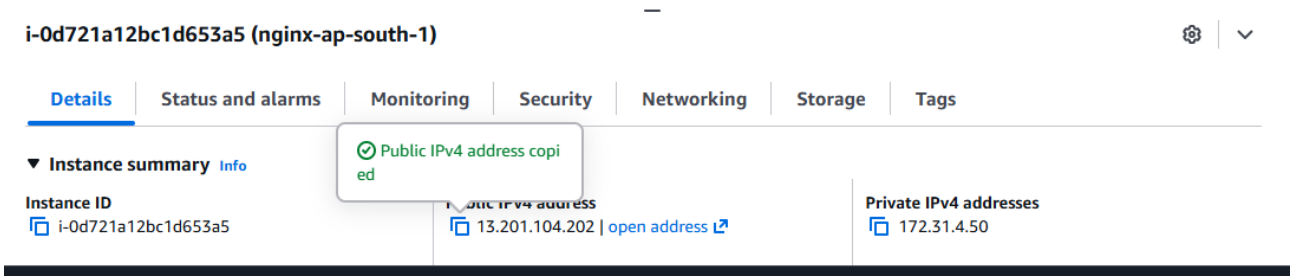

C:\Users\windows\Desktop\terraform\ec2-nginx-task>terraform validate
Success! The configuration is valid.
C:\Users\windows\Desktop\terraform\ec2-nginx-task>

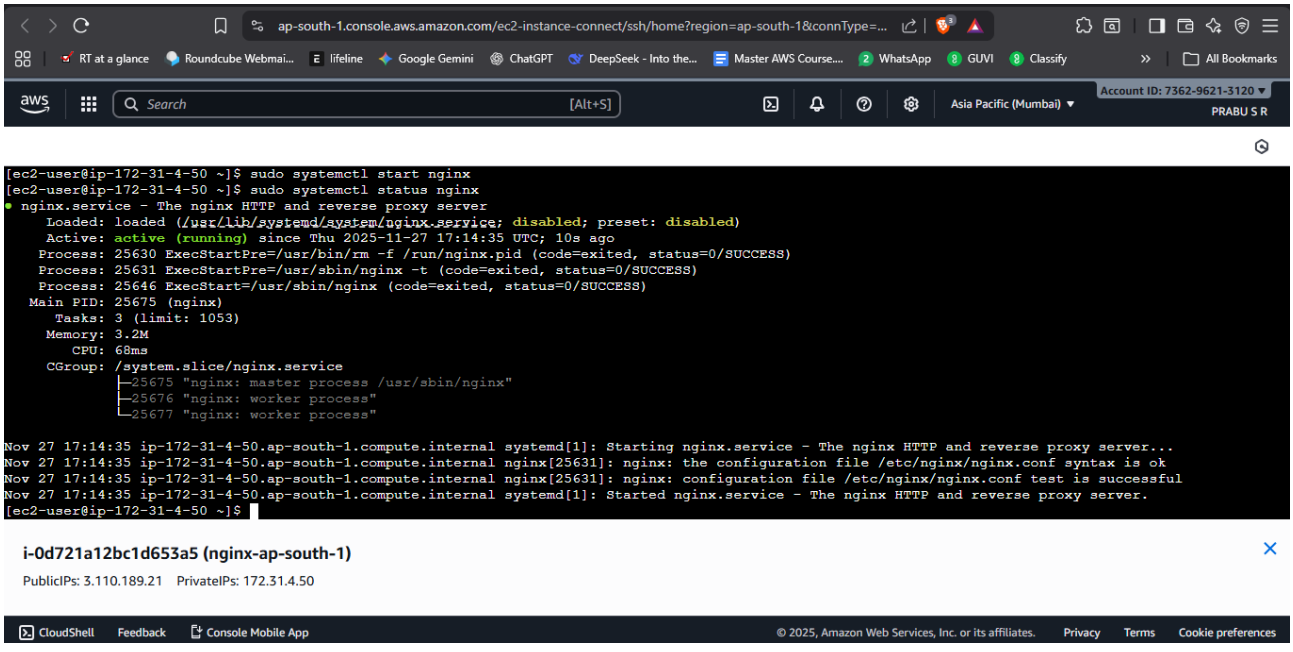

C:\Windows\System32\cmd.exe
+ ebs_block_device (known after apply)
+ enclave_options (known after apply)
+ ephemeral_block_device (known after apply)
+ instance_market_options (known after apply)
+ maintenance_options (known after apply)
+ metadata_options (known after apply)
+ network_interface (known after apply)
+ primary_network_interface (known after apply)
+ private_dns_name_options (known after apply)
+ root_block_device (known after apply)
}
Plan: 2 to add, 0 to change, 0 to destroy.
Note: You didn't use the -out option to save this plan, so Terraform can't guarantee to take exactly these actions if you run "terraform apply" now.
C:\Users\windows\Desktop\terraform\ec2-nginx-task>
Linux

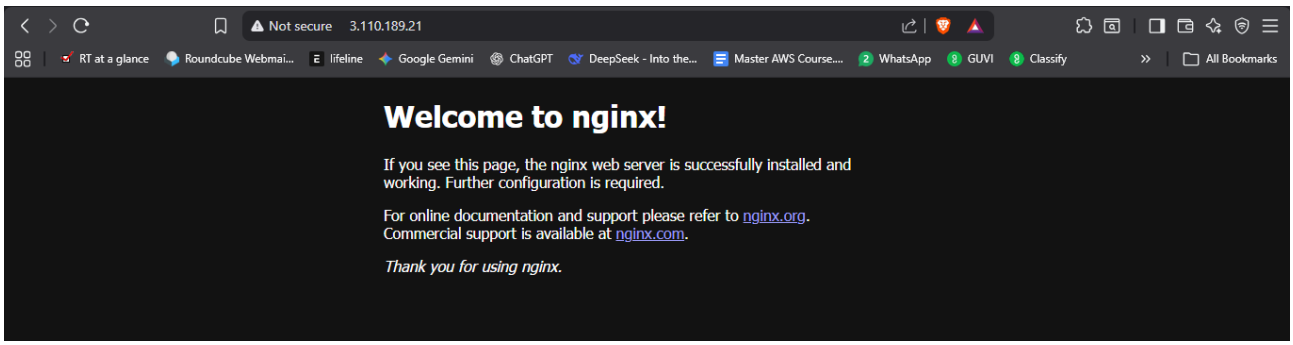

Plan: 2 to add, 0 to change, 0 to destroy.
Do you want to perform these actions?
Terraform will perform the actions described above.
Only 'yes' will be accepted to approve.
Enter a value: yes
aws_instance.ec2_india: Creating...
aws_instance.ec2_us: Creating...
aws_instance.ec2_india: Still creating... [00m10s elapsed]
aws_instance.ec2_us: Still creating... [00m10s elapsed]
aws_instance.ec2_india: Creation complete after 13s [id=i-0d721a12bc1d653a5]
aws_instance.ec2_us: Creation complete after 18s [id=i-0de3ad4235f2faaa6]
Apply complete! Resources: 2 added, 0 changed, 0 destroyed.
C:\Users\windows\Desktop\terraform\ec2-nginx-task>

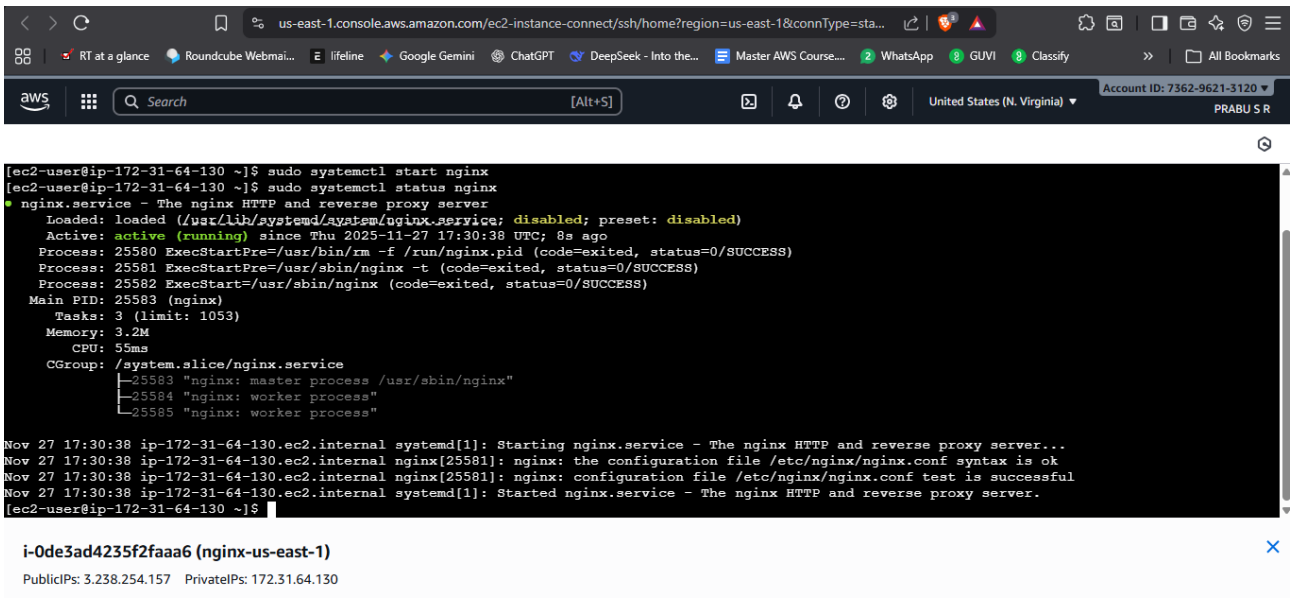

us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#Instances:
Search [Alt+S]
United States (N. Virginia)
Account ID: 7362-9621-3120
PRABU S R
EC2 > Instances
EC2
Dashboard
EC2 Global View
Events
Instances
Instances
Instance Types
Launch Templates
Spot Requests
Savings Plans
Reserved Instances
Dedicated Hosts
Capacity Reservations
Capacity Manager New
Images
Instances (1) Info
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
nginx-us-east-1
i-0de3ad4235f2faaa6
Running
t3.micro
Initializing
View alarms
us-east-1f
Select an instance
CloudShell
Feedback
Console Mobile App
© 2025, Amazon Web Services, Inc. or its affiliates.
Privacy
Terms
Cookie preferences

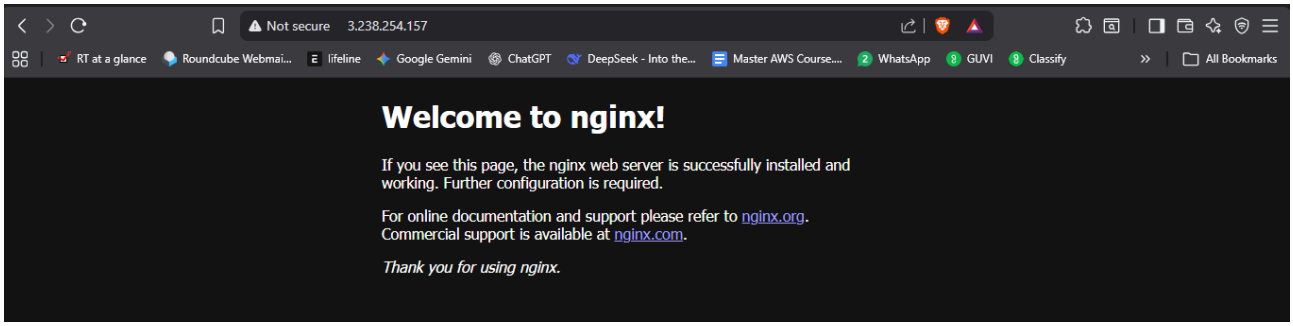

ap-south-1.console.aws.amazon.com/ec2/home?region=ap-south-1#EditUserData:instanceId=i-0d721a...
RT at a glance
Roundcube Webmai...
lifeline
Google Gemini
ChatGPT
DeepSeek - Into the...
Master AWS Course....
WhatsApp
GUVI
Classify
All Bookmarks
Search
[Alt+S]
Asia Pacific (Mumbai)
Account ID: 7362-9621-3120
PRABU S R
EC2 > Instances > i-0d721a12bc1d653a5 > Edit user data
Edit user data Info
Instance ID
i-0d721a12bc1d653a5 (nginx-ap-south-1)
Current user data
User data currently associated with this instance.
#!/bin/bash
yum update -y
amazon-linux-extras install nginx1 -y
systemctl enable nginx
systemctl start nginx
Copy user data
To edit your instance's user data you first need to stop your instance.


i-0d721a12bc1d653a5 (nginx-ap-south-1)
Details
Status and alarms
Monitoring
Security
Networking
Storage
Tags
Public IPv4 address copied
Instance summary Info
Instance ID
i-0d721a12bc1d653a5
13.201.104.202 | open address
Private IPv4 addresses
172.31.4.50


ap-south-1.console.aws.amazon.com/ec2-instance-connect/ssh/home?region=ap-south-1&connType=...
RT at a glance
Roundcube Webmai...
lifeline
Google Gemini
ChatGPT
DeepSeek - Into the...
Master AWS Course....
WhatsApp
GUVI
Classify
All Bookmarks
Search
[Alt+S]
Asia Pacific (Mumbai)
Account ID: 7362-9621-3120
PRABU S R
[ec2-user@ip-172-31-4-50 ~]$ sudo systemctl start nginx
[ec2-user@ip-172-31-4-50 ~]$ sudo systemctl status nginx
● nginx.service - The nginx HTTP and reverse proxy server
Loaded: loaded (/usr/lib/systemd/system/nginx.service; disabled; preset: disabled)
Active: active (running) since Thu 2025-11-27 17:14:35 UTC; 10s ago
Process: 25630 ExecStartPre=/usr/bin/rm -f /run/nginx.pid (code=exited, status=0/SUCCESS)
Process: 25631 ExecStartPre=/usr/sbin/nginx -t (code=exited, status=0/SUCCESS)
Process: 25646 ExecStart=/usr/sbin/nginx (code=exited, status=0/SUCCESS)
Main PID: 25675 (nginx)
Tasks: 3 (limit: 1053)
Memory: 3.2M
CPU: 68ms
CGroup: /system.slice/nginx.service
├─25675 "nginx: master process /usr/sbin/nginx"
├─25676 "nginx: worker process"
└─25677 "nginx: worker process"
Nov 27 17:14:35 ip-172-31-4-50.ap-south-1.compute.internal systemd[1]: Starting nginx.service - The nginx HTTP and reverse proxy server...
Nov 27 17:14:35 ip-172-31-4-50.ap-south-1.compute.internal nginx[25631]: nginx: the configuration file /etc/nginx/nginx.conf syntax is ok
Nov 27 17:14:35 ip-172-31-4-50.ap-south-1.compute.internal nginx[25631]: nginx: configuration file /etc/nginx/nginx.conf test is successful
Nov 27 17:14:35 ip-172-31-4-50.ap-south-1.compute.internal systemd[1]: Started nginx.service - The nginx HTTP and reverse proxy server.
[ec2-user@ip-172-31-4-50 ~]$
i-0d721a12bc1d653a5 (nginx-ap-south-1)
PublicIPs: 3.110.189.21 PrivateIPs: 172.31.4.50
CloudShell
Feedback
Console Mobile App
© 2025, Amazon Web Services, Inc. or its affiliates.
Privacy
Terms
Cookie preferences


Not secure 3.110.189.21
RT at a glance
Roundcube Webmai...
lifeline
Google Gemini
ChatGPT
DeepSeek - Into the...
Master AWS Course....
WhatsApp
GUVI
Classify
All Bookmarks
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.


us-east-1.console.aws.amazon.com/ec2-instance-connect/ssh/home?region=us-east-1&connType=sta...
aws
Search
[Alt+S]
United States (N. Virginia)
Account ID: 7362-9621-3120
PRABU S R
[ec2-user@ip-172-31-64-130 ~]$ sudo systemctl start nginx
[ec2-user@ip-172-31-64-130 ~]$ sudo systemctl status nginx
● nginx.service - The nginx HTTP and reverse proxy server
Loaded: loaded (/usr/lib/systemd/system/nginx.service; disabled; preset: disabled)
Active: active (running) since Thu 2025-11-27 17:30:38 UTC; 8s ago
Process: 25580 ExecStartPre=/usr/bin/rm -f /run/nginx.pid (code=exited, status=0/SUCCESS)
Process: 25581 ExecStartPre=/usr/sbin/nginx -t (code=exited, status=0/SUCCESS)
Process: 25582 ExecStart=/usr/sbin/nginx (code=exited, status=0/SUCCESS)
Main PID: 25583 (nginx)
Tasks: 3 (limit: 1053)
Memory: 3.2M
CPU: 55ms
CGroup: /system.slice/nginx.service
├─25583 "nginx: master process /usr/sbin/nginx"
├─25584 "nginx: worker process"
└─25585 "nginx: worker process"
Nov 27 17:30:38 ip-172-31-64-130.ec2.internal systemd[1]: Starting nginx.service - The nginx HTTP and reverse proxy server...
Nov 27 17:30:38 ip-172-31-64-130.ec2.internal nginx[25581]: nginx: the configuration file /etc/nginx/nginx.conf syntax is ok
Nov 27 17:30:38 ip-172-31-64-130.ec2.internal nginx[25581]: nginx: configuration file /etc/nginx/nginx.conf test is successful
Nov 27 17:30:38 ip-172-31-64-130.ec2.internal systemd[1]: Started nginx.service - The nginx HTTP and reverse proxy server.
[ec2-user@ip-172-31-64-130 ~]$
i-0de3ad4235f2faaa6 (nginx-us-east-1)
PublicIPs: 3.238.254.157 PrivateIPs: 172.31.64.130


Not secure 3.238.254.157
RT at a glance
Roundcube Webmai...
lifeline
Google Gemini
ChatGPT
DeepSeek - Into the...
Master AWS Course....
WhatsApp
GUVI
Classify
All Bookmarks
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.


Plan: 0 to add, 0 to change, 2 to destroy.
Do you really want to destroy all resources?
Terraform will destroy all your managed infrastructure, as shown above.
There is no undo. Only 'yes' will be accepted to confirm.
Enter a value: yes
aws_instance.ec2_india: Destroying... [id=i-0d721a12bc1d653a5]
aws_instance.ec2_us: Destroying... [id=i-0de3ad4235f2faaa6]
aws_instance.ec2_india: Still destroying... [id=i-0d721a12bc1d653a5, 00m10s elapsed]