

Terraform Task-2

Task Description:

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

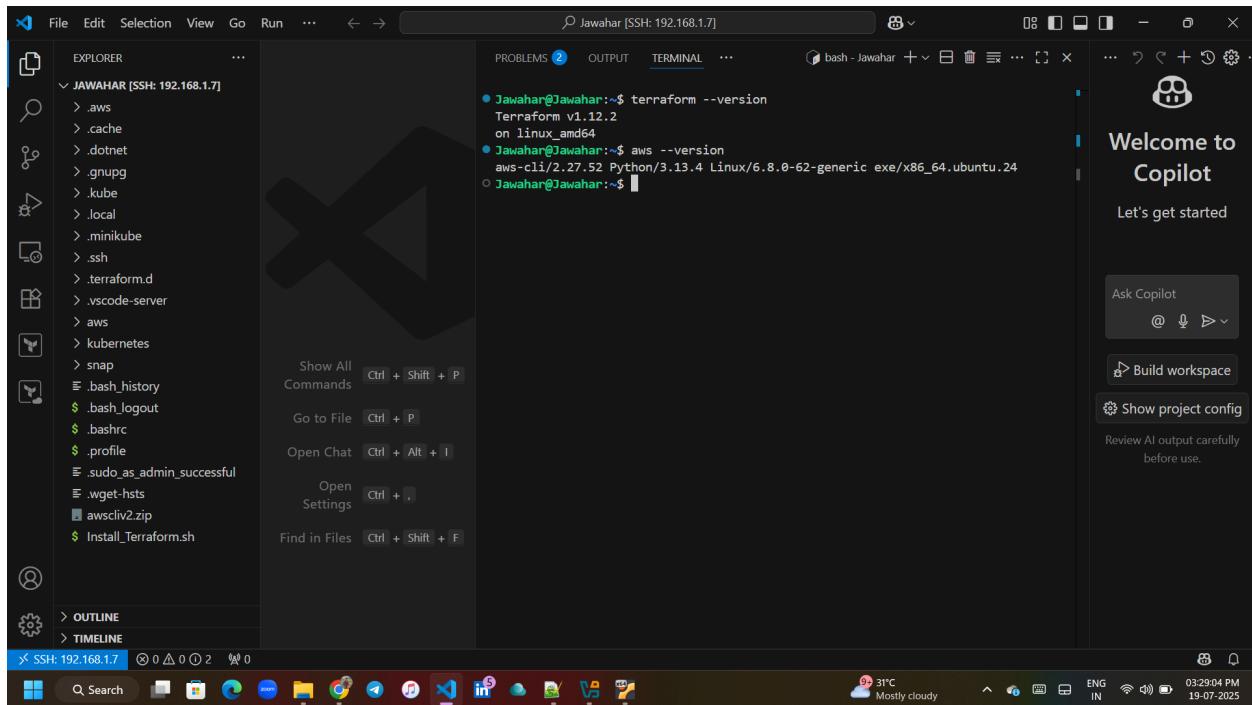
Techstacks needs to be used :

- AWS EC2
- Terraform
- AWS CLI

Screenshots:

Drive :

https://docs.google.com/document/d/1BlgMYEBw_dCReTcy_FrhCuYZSWGDXeUUA9isvO1zMXs/edit?usp=sharing



The screenshot shows a terminal window titled "Jawahar [SSH: 192.168.1.7]" with the following Terraform configuration:

```
1 terraform {
2   required_providers {
3     aws = {
4       source  = "hashicorp/aws"
5       version = "~> 4.0"
6     }
7   }
8 }

9
10 provider "aws" {
11   alias  = "virginia"
12   region = "us-east-1"
13 }
14
15 provider "aws" {
16   alias  = "oregon"
17   region = "us-west-2"
18 }

19
20 resource "aws_key_pair" "my_local"
21   key_name  = "ubuntu-key"
22   public_key = file("D:/Downloads/")
23
24
25 data "aws_ami" "ubuntu_virginia" {
26   most_recent = true
27   owners      = ["099720109477"]
28   provider    = aws.virginia
29 }

30 filter {
```

The terminal output shows:

```
Jawahar@Jawahar:~/Terraform-Task-02$
```

The screenshot shows a terminal window titled "Jawahar [SSH: 192.168.1.7]" with the following Terraform variable configuration:

```
1 variable "key_name" {
2   type     = string
3   default  = null
4   description = "SSH key pair name to use for EC2"
5 }
```

The terminal output shows:

```
Jawahar@Jawahar:~/Terraform-Task-02$
```

Jawahar [SSH: 192.168.1.7]

EXPLORER JAWAHAR [SSH: 192.168.1.7] Terraform-Task-02 outputs.tf

```
1   output "nginx_public_ips" {
2     description = "Public IPs of EC2 instances with Nginx"
3     value = {
4       us_east_1 = module.ec2_virginia.public_ip
5       us_west_2 = module.ec2_oregon.public_ip
6     }
7   }
```

bash - Terraform-Task-02

```
Jawahar@Jawahar:~/Terraform-Task-02$
```

Welcome to Copilot

Let's get started

Ask Copilot @ ➤

Build workspace

Show project config

Review AI output carefully before use.

SSH: 192.168.1.7 Spaces: 4 UTF-8 LF Terraform

Jawahar [SSH: 192.168.1.7]

EXPLORER JAWAHAR [SSH: 192.168.1.7] Terraform-Task-02 security_groups.tf

```
1   # Default VPCs
2   data "aws_vpc" "default_us_west_2" > default
3   data "aws_vpc" "default_us_east_1" {
4     default = true
5     provider = aws.virginia
6   }
7   data "aws_vpc" "default_us_west_2" {
8     default = true
9     provider = aws.oregon
10  }
11
12  # SG for us-east-1
13  resource "aws_security_group" "web_virginia" {
14    name          = "allow_web_ssh_virginia"
15    description   = "Allow SSH, HTTP, HTTPS"
16    vpc_id        = data.aws_vpc.default_us_east_1.id
17    provider      = aws.virginia
18
19    ingress {
20      from_port   = 22
21      to_port    = 22
22      protocol   = "tcp"
23      cidr_blocks = ["0.0.0.0/0"]
24    }
25
26    ingress {
27      from_port   = 80
28      to_port    = 80
29      protocol   = "tcp"
30      cidr_blocks = ["0.0.0.0/0"]
31  }
```

bash - Terraform-Task-02

```
Jawahar@Jawahar:~/Terraform-Task-02$ cat security_groups.tf
```

Welcome to Copilot

Let's get started

Ask Copilot @ ➤

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Show project config

Review AI output carefully before use.

SSH: 192.168.1.7 Spaces: 4 UTF-8 LF Terraform

Jawahar [SSH: 192.168.1.7]

```
46    }
47
48 # SG for us-west-2
49 resource "aws_security_group" "web_oregon" {
50   name      = "allow_web_ssh_oregon"
51   description = "Allow SSH, HTTP, HTTPS"
52   vpc_id    = data.aws_vpc.default_us_west_2.id
53   provider  = aws.oregon
54
55   ingress {
56     from_port  = 22
57     to_port    = 22
58     protocol   = "tcp"
59     cidr_blocks = ["0.0.0.0/0"]
60   }
61
62   ingress {
63     from_port  = 80
64     to_port    = 80
65     protocol   = "tcp"
66     cidr_blocks = ["0.0.0.0/0"]
67   }
68
69   ingress {
70     from_port  = 443
71     to_port    = 443
72     protocol   = "tcp"
73     cidr_blocks = ["0.0.0.0/0"]
74   }
75 }
```

Ln 8, Col 18 Spaces: 4 UTF-8 LF {} Terraform

Jawahar [SSH: 192.168.1.7]

```
1 resource "aws_instance" "this" {
2   ami           = var.ami_id
3   instance_type = var.instance_type
4   key_name      = var.key_name
5   vpc_security_group_ids = var.security_group_ids
6
7   user_data = <<-EOF
8     #!/bin/bash
9     apt update -y
10    apt install nginx -y
11    systemctl start nginx
12    systemctl enable nginx
13 EOF
14
15   tags = {
16     Name = var.name
17   }
18 }
```

Ln 9, Col 18 Spaces: 2 UTF-8 LF {} Terraform

Jawahar [SSH: 192.168.1.7]

File Edit Selection View Go Run ...

EXPLORER JAWAHAR [SSH: 192.168.1.7] .local .minikube .ssh .terraform.d .vscode-server aws kubernetes snap Terraform-Task-02 modules/ec2_instance main.tf outputs.tf variables.tf

outputs.tf

```
1 output "public_ip" {
2   value = aws_instance.this.public_ip
3 }
```

Jawahar@Jawahar:~/Terraform-Task-02\$

Ln 4, Col 1 Spaces: 2 UTF-8 LF {} Terraform

SSH: 192.168.1.7 Q Search

Q. Search

33°C Partly sunny 04:00:08 PM 19-07-2025

Jawahar [SSH: 192.168.1.7]

File Edit Selection View Go Run ...

EXPLORER JAWAHAR [SSH: 192.168.1.7] .local .minikube .ssh .terraform.d .vscode-server aws kubernetes snap Terraform-Task-02 modules/ec2_instance main.tf outputs.tf variables.tf

variables.tf

```
1 variable "ami_id" {
2   type = string
3 }
4
5 variable "instance_type" {
6   type = string
7   default = "t2.micro"
8 }
9
10 variable "name" {
11   type = string
12 }
13
14 variable "key_name" {
15   type = string
16 }
17
18 variable "security_group_ids" {
19   type = list(string)
20 }
```

Jawahar@Jawahar:~/Terraform-Task-02\$

Ln 12, Col 2 Spaces: 2 UTF-8 LF {} Terraform

SSH: 192.168.1.7 Q Search

Q. Search

33°C Partly sunny 04:00:11 PM 19-07-2025

```
Jawahar@Jawahar:~/Terraform-Task-02$ aws configure
AWS Access Key ID [*****]: AKIA2OAJTS6C3M5T2GVK
AWS Secret Access Key [*****]: itZWxLVRmoODXWRt*****
Default region name [us-west-2]: us-west-2
Default output format [None]:
```

The screenshot shows a terminal window titled "Jawahar [SSH: 192.168.1.7]" running on a Linux system. The user has run the "aws configure" command, which prompts for AWS access key, secret key, region, and output format. The region is set to "us-west-2". The terminal also displays the current directory structure and a file listing.

```
Jawahar@Jawahar:~/Terraform-Task-02$ terraform init
Initializing the backend...
Initializing modules...
- ec2_oregon in modules/ec2_instance
- ec2_virginia in modules/ec2_instance
Initializing provider plugins...
- Finding hashicorp/aws versions matching "~> 4.0"...
- Installing hashicorp/aws v4.67.0...
- Installed hashicorp/aws v4.67.0 (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!
```

The screenshot shows a terminal window titled "Jawahar [SSH: 192.168.1.7]" running on a Linux system. The user has run the "terraform init" command, which initializes the Terraform backend and provider plugins. The terminal displays the progress of the initialization process, including the selection of provider versions and the creation of a lock file.

The screenshot shows a Visual Studio Code (VS Code) interface connected via SSH to a host at 192.168.1.7. The Explorer sidebar on the left lists several project and system folders. The current folder is 'Terraform-Task-02'. In the center, the code editor displays a file named 'aws-key-Public.pub' with its contents:

```
ssh-rsa AAAAB3NzaC1yc2EAAAQABAA
```

The terminal tab at the bottom shows the command history:

```
Jawahar@Jawahar:~/Terraform-Task-02$ cd keys/
Jawahar@Jawahar:~/Terraform-Task-02/keys$ chmod 600 aws-key-Public.pub
Jawahar@Jawahar:~/Terraform-Task-02/keys$
```

The status bar at the bottom indicates the file is 19 lines long, has 0 errors, and is in Plain Text mode.

Jawahar@Jawahar:~/Terraform-Task-02\$ terraform init

```
Initializing the backend...  
Initializing modules...  
Initializing provider plugins...  
- Reusing previous version of hashicorp/aws from the dependency lock file  
- Using previously-installed hashicorp/aws v4.67.0  
  
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.

Jawahar@Jawahar:~/Terraform-Task-02\$

```
+ cpu_options (known after apply)  
+ ebs_block_device (known after apply)  
+ enclave_options (known after apply)  
+ ephemeral_block_device (known after apply)  
+ maintenance_options (known after apply)  
+ metadata_options (known after apply)  
+ network_interface (known after apply)  
+ private_dns_name_options (known after apply)  
+ root_block_device (known after apply)  
  
Plan: 5 to add, 0 to change, 0 to destroy.  
  
Changes to Outputs:  
+ nginx_public_ips = {  
    + us_east_1 = (known after apply)  
    + us_west_2 = (known after apply)  
}  
  
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.
```

Jawahar@Jawahar:~/Terraform-Task-02\$

GUUI

Terraform Task-2 - Google Docs

Create access key | IAM | Global

Dashboard | EC2 | us-west-2

EC2 Global View | Global

us-east-1.console.aws.amazon.com/ec2globalview/home?region=us-east-1#

Search [Alt+S]

Region explorer Global search Updated 9 minutes ago

Summary

Summary of your resources across all Regions for which your account is enabled.

Fetching resources for all opted in regions

Resource update complete

Resource totals will be inaccurate until complete

| Enabled regions 17 regions | Instances 0 in 0 regions | VPCs 17 in 17 regions | Subnets 55 in 17 regions |
|--------------------------------------|--------------------------------------|---|---|
| Security groups 26 in 17 regions | Volumes 0 in 0 regions | Auto scaling groups 0 in 0 regions | Route tables 17 in 17 regions |
| VPC endpoints 0 in 0 regions | NAT gateways 0 in 0 regions | Egress only internet gateways 0 in 0 regions | Internet gateways 17 in 17 regions |
| DHCP option sets 17 in 17 regions | Elastic IPs 0 in 0 regions | Endpoint services 0 in 0 regions | Managed prefix lists 174 in 17 regions |
| Network ACLs 17 in 17 regions | Network interfaces 0 in 0 regions | VPC peering connections 0 in 0 regions | Capacity Reservations 0 in 0 regions |



Jawahar [SSH: 192.168.1.7]

File Edit Selection View Go Run ... ← →

EXPLORER JAWAHAR [SSH: 192.168.1.7] Terraform-Task-02 main.tf main.tf ~./ec2_instance

```

1 terraform {
2
3   provider "aws" {
4     alias = "virginia"
5     region = "us-east-1"
6   }
7
8   provider "aws" {
9     alias = "oregon"
10    region = "us-west-2"
11  }
12
13   resource "aws_key_pair" "my_key_virginia" {
14     key_name   = "my-key"
15     public_key = file("${path.module}/keys/aws-key-Public.pub")
16     provider   = aws.virginia
17   }
18
19   resource "aws_key_pair" "my_key_oregon" {
20     key_name   = "my-key"
21     public_key = file("${path.module}/keys/aws-key-Public.pub")
22     provider   = aws.oregon
23   }
24
25   data "aws_ami" "ubuntu_virginia" {
26     most_recent = true
27     owners      = ["099720109477"]
28   }
29
30   resource "aws_instance" "this" {
31     ami           = "ami-0597e0308dc02ed24"
32     arn          = (
33       known after apply)
34     associate_public_ip_address = (
35       known after apply)
36     availability_zone = (
37       known after apply)
38     cpu_core_count = (
39       known after apply)
40     cpu_threads_per_core = (
41       known after apply)
42     disable_api_stop = (
43       known after apply)
44     disable_api_termination = (
45       known after apply)
46     ebs_optimized = (
47       known after apply)
48     get_password_data = f
49   }
50
51   output "public_ip" {
52     value = instance.this.public_ip
53   }
54
55   output "private_ip" {
56     value = instance.this.private_ip
57   }
58
59   output "ami_id" {
60     value = data.aws_ami.ubuntu_virginia.id
61   }
62
63   output "ami_name" {
64     value = data.aws_ami.ubuntu_virginia.name
65   }
66
67   output "ami_type" {
68     value = data.aws_ami.ubuntu_virginia.root_device_type
69   }
70
71   output "ami_size" {
72     value = data.aws_ami.ubuntu_virginia.block_device_mappings[0].virtual_name
73   }
74
75   output "ami_architecture" {
76     value = data.aws_ami.ubuntu_virginia.architecture
77   }
78
79   output "ami_root_device_type" {
80     value = data.aws_ami.ubuntu_virginia.root_device_type
81   }
82
83   output "ami_block_device_mappings" {
84     value = data.aws_ami.ubuntu_virginia.block_device_mappings
85   }
86
87   output "ami_root_device_name" {
88     value = data.aws_ami.ubuntu_virginia.root_device_name
89   }
90
91   output "ami_ena_support" {
92     value = data.aws_ami.ubuntu_virginia.ena_support
93   }
94
95   output "ami_eni_support" {
96     value = data.aws_ami.ubuntu_virginia.eni_support
97   }
98
99   output "ami_hypervisor" {
100    value = data.aws_ami.ubuntu_virginia.hypervisor
101  }
102
103  output "ami_kms_key_id" {
104    value = data.aws_ami.ubuntu_virginia.kms_key_id
105  }
106
107  output "ami_launch_permission" {
108    value = data.aws_ami.ubuntu_virginia.launch_permission
109  }
110
111  output "ami_root_device_name" {
112    value = data.aws_ami.ubuntu_virginia.root_device_name
113  }
114
115  output "ami_root_device_type" {
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The screenshot shows a Visual Studio Code interface with multiple windows open. The left sidebar has sections for EXPLORER, JAWAHAR [SSH: 192.168.1.7], and a expanded section for Terraform-Task-02 containing .dotnet, .gnupg, .kube, .local, .minikube, .ssh, .terraform.d, .vscode-server, aws, kubernetes, snap, keys, modules/ec2_instance, main.tf, outputs.tf, variables.tf, .terraform.lock.hcl, and .terraform.state.lock.info. The main editor window displays Terraform code for two regions:

```
main.tf ~/Terraform-Task-02 x main.tf ~/.../ec2_insta... x

Terraform-Task-02 > main.tf > ...
56 module "ec2_virginia" {
57   ami_id           = data.aws_ami.ubuntu
58   instance_type   = "t2.micro"
59   name             = "Nginx-USEast1"
60   providers = {
61     aws = aws.virginia
62   }
63   key_name = aws_key_pair.my_key_virginia
64   security_group_ids = [aws_security_group.us-east-1]
65 }
66 }

# Oregon EC2
67 module "ec2_oregon" {
68   source          = "./modules/ec2_instance"
69   ami_id          = data.aws_ami.ubuntu
70   instance_type   = "t2.micro"
71   name            = "Nginx-USWest2"
72   providers = {
73     aws = aws.oregon
74   }
75   key_name = aws_key_pair.my_key_oregon
76   security_group_ids = [aws_security_group.us-west-2]
77 }
78 }

79 }
```

The right-hand panel shows the PROBLEMS, TERMINAL, and terraform - Terraform-Task-02 tabs. The PROBLEMS tab lists several errors related to block devices and security groups. The TERMINAL tab shows a confirmation message for plan actions, and the terraform - Terraform-Task-02 tab shows the command being run.

The screenshot shows a Visual Studio Code (VS Code) interface with multiple tabs open. The left sidebar contains a tree view of files and folders, including 'main.tf', 'outputs.tf', 'security_groups.tf', 'terraform.tfstate', and 'JAWAHAR [SSH: 192.168.1.7]' which lists various AWS configuration files like '.dotnet', '.gnupg', '.kube', '.local', '.minikube', '.ssh', '.terraform.d', '.vscode-server', 'aws', 'kubernetes', 'snap', and 'Terraform-Task-02'. The main editor area displays 'main.tf' with Terraform code for creating EC2 instances in Oregon and Virginia regions. The right side of the screen shows the 'TERMINAL' tab where AWS CloudWatch logs are being displayed, indicating the creation of various AWS resources such as key pairs, security groups, and instances. The status bar at the bottom shows the connection details 'SSH: 192.168.1.7', file counts (1△ 0), and other system information.

```
main.tf ~/Terraform-Task-02 > main.tf > ...
56 module "ec2_virginia" {
57   ami_id          = data.aws_ami.ubuntu.id
58   instance_type   = "t2.micro"
59   name            = "Nginx-USEast1"
60   providers       = {
61     aws           = aws.virginia
62   }
63   key_name        = aws_key_pair.my_key_virginia.key_name
64   security_group_ids = [aws_security_group.my_security_group_virginia.id]
65 }
66
67 # Oregon EC2
68 module "ec2_oregon" {
69   source          = "./modules/ec2_instance"
70   ami_id          = data.aws_ami.ubuntu.id
71   instance_type   = "t2.micro"
72   name            = "Nginx-USWest2"
73   providers       = {
74     aws           = aws.oregon
75   }
76   key_name        = aws_key_pair.my_key_oregon.key_name
77   security_group_ids = [aws_security_group.my_security_group_oregon.id]
78 }
79
80 }
```

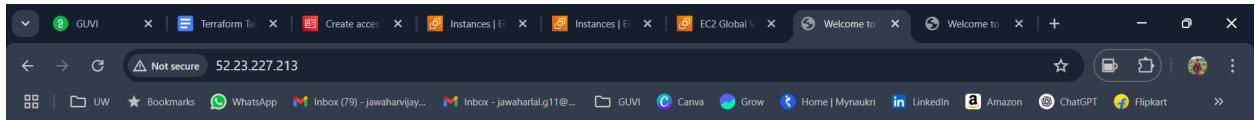
```
aws_key_pair.my_key_oregon: Creating...
aws_security_group.web_oregon: Creating...
aws_key_pair.my_key_virginia: Creating...
aws_security_group.web_virginia: Creating...
aws_key_pair.my_key_oregon: Creation complete after 1s [id=my-key]
aws_key_pair.my_key_virginia: Creation complete after 2s [id=my-key]
aws_security_group.web_oregon: Creation complete after 6s [id=sg-00810cf35daf06242]
module.ec2_oregon.aws_instance.this: Creating...
aws_security_group.web_virginia: Creation complete after 7s [id=sg-0065e5ec5d527875]
module.ec2_virginia.aws_instance.this: Creating...
module.ec2_oregon.aws_instance.this: Still creating... [00m10s elapsed]
module.ec2_virginia.aws_instance.this: Still creating... [00m10s elapsed]
module.ec2_oregon.aws_instance.this: Still creating... [00m20s elapsed]
module.ec2_virginia.aws_instance.this: Still creating... [00m20s elapsed]
module.ec2_oregon.aws_instance.this: Still creating... [00m31s elapsed]
module.ec2_virginia.aws_instance.this: Still creating... [00m31s elapsed]
module.ec2_oregon.aws_instance.this: Creation complete after 37s [id=i-05965585dc5be2d]
module.ec2_virginia.aws_instance.this: Creation complete after 37s [id=i-080144beet7384579]
```

Apply complete! Resources: 6 added, 0 changed, 0 destroyed.

Outputs:

```
nginx_public_ips = {
  "us_east_1" = "52.23.227.213"
  "us_west_2" = "52.37.190.184"
}
```

Jawahar@Jawahar:~/Terraform-Task-02\$

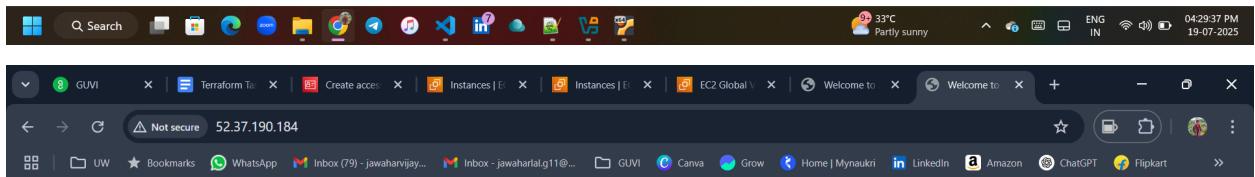


Welcome to nginx!

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.



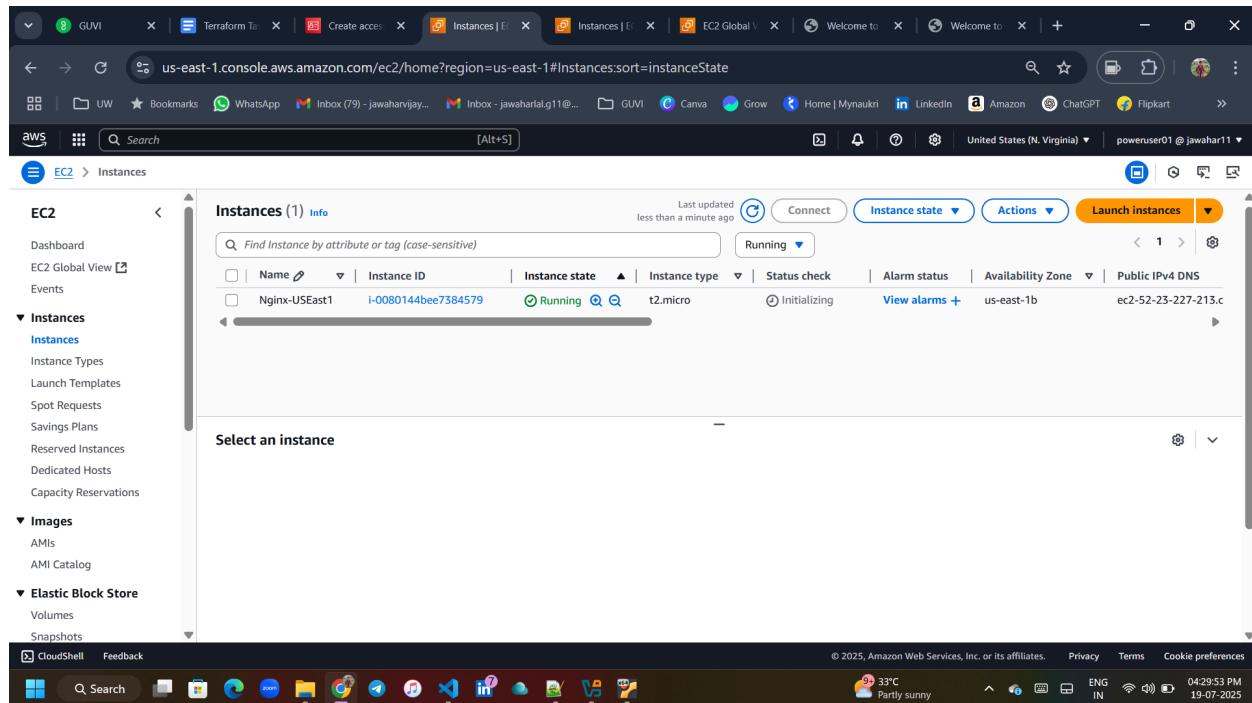
Welcome to nginx!

If you see this page, the nginx web server is successfully installed and working. Further configuration is required.

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Commercial support is available at nginx.com.

Thank you for using nginx.





Instances (1) Info

| Name | Instance ID | Instance state | Instance type | Status check | Alarm status | Availability Zone | Public IPv4 DNS | Public IP |
|---------------|---------------------|----------------|---------------|--------------|--------------|-------------------|-------------------------|-----------|
| Nginx-USWest2 | i-0be5965585dc5be2d | Running | t2.micro | Initializing | | us-west-2a | ec2-52-37-190-184.us... | 52.37 |

Select an instance

```
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

module.ec2_oregon.aws_instance.this: Destroying... [id=i-0be5965585dc5be2d]
module.ec2_virginia.aws_instance.this: Destroying... [id=i-0080144bee7384579]
module.ec2_oregon.aws_instance.this: Still destroying... [id=i-0be5965585dc5be2d, 00m10s elapsed]
module.ec2_virginia.aws_instance.this: Still destroying... [id=i-0080144bee7384579, 00m10s elapsed]
module.ec2_oregon.aws_instance.this: Still destroying... [id=i-0be5965585dc5be2d, 00m20s elapsed]
module.ec2_virginia.aws_instance.this: Still destroying... [id=i-0080144bee7384579, 00m20s elapsed]
module.ec2_oregon.aws_instance.this: Still destroying... [id=i-0be5965585dc5be2d, 00m30s elapsed]
module.ec2_virginia.aws_instance.this: Still destroying... [id=i-0080144bee7384579, 00m30s elapsed]
module.ec2_oregon.aws_instance.this: Destruction complete after 33s
aws_key_pair.my_key_oregon: Destroying... [id=my-key]
aws_security_group.web_oregon: Destroying... [id=sg-00810cf35daf06242]
aws_key_pair.my_key_oregon: Destruction complete after 1s
aws_security_group.web_oregon: Destruction complete after 2s
module.ec2_virginia.aws_instance.this: Still destroying... [id=i-0080144bee7384579, 00m40s elapsed]
module.ec2_virginia.aws_instance.this: Destruction complete after 44s
aws_security_group.web_virginia: Destroying... [id=sg-0065e5ce5d527875]
aws_key_pair.my_key_virginia: Destroying... [id=my-key]
aws_key_pair.my_key_virginia: Destruction complete after 1s
aws_security_group.web_virginia: Destruction complete after 2s
Destroy complete! Resources: 6 destroyed.
```