SPCM LAB
LAB EXPERIMENTS

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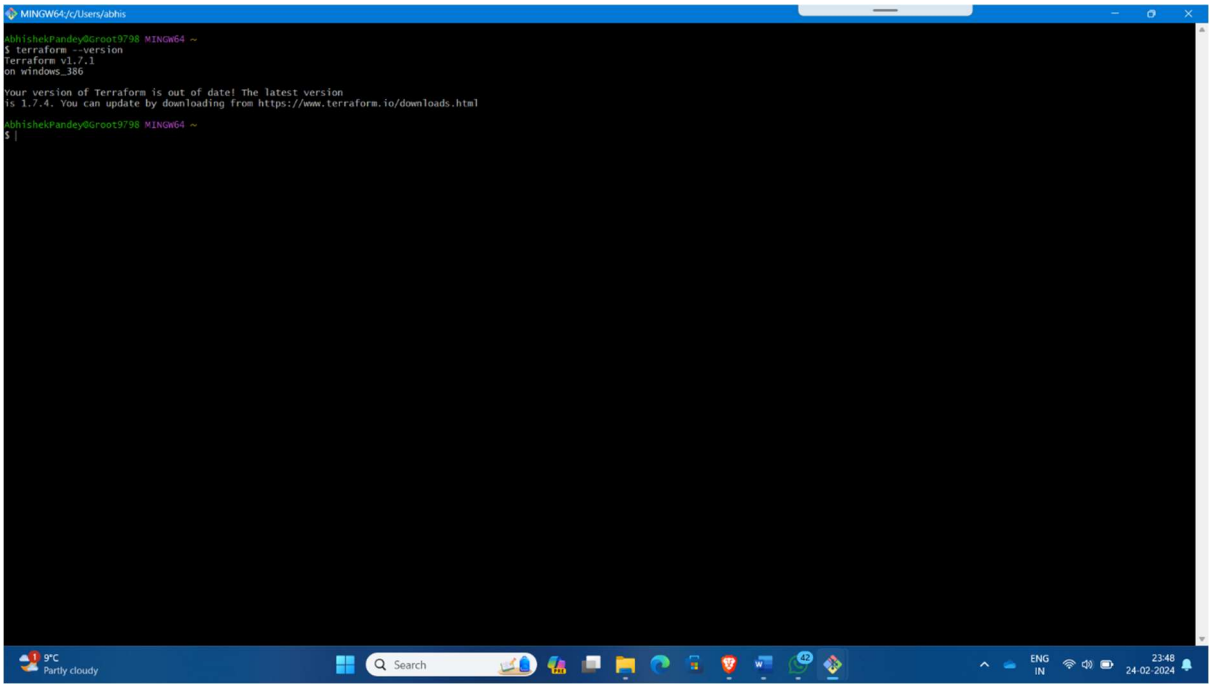
BATCH: B-3(DEVOPS)

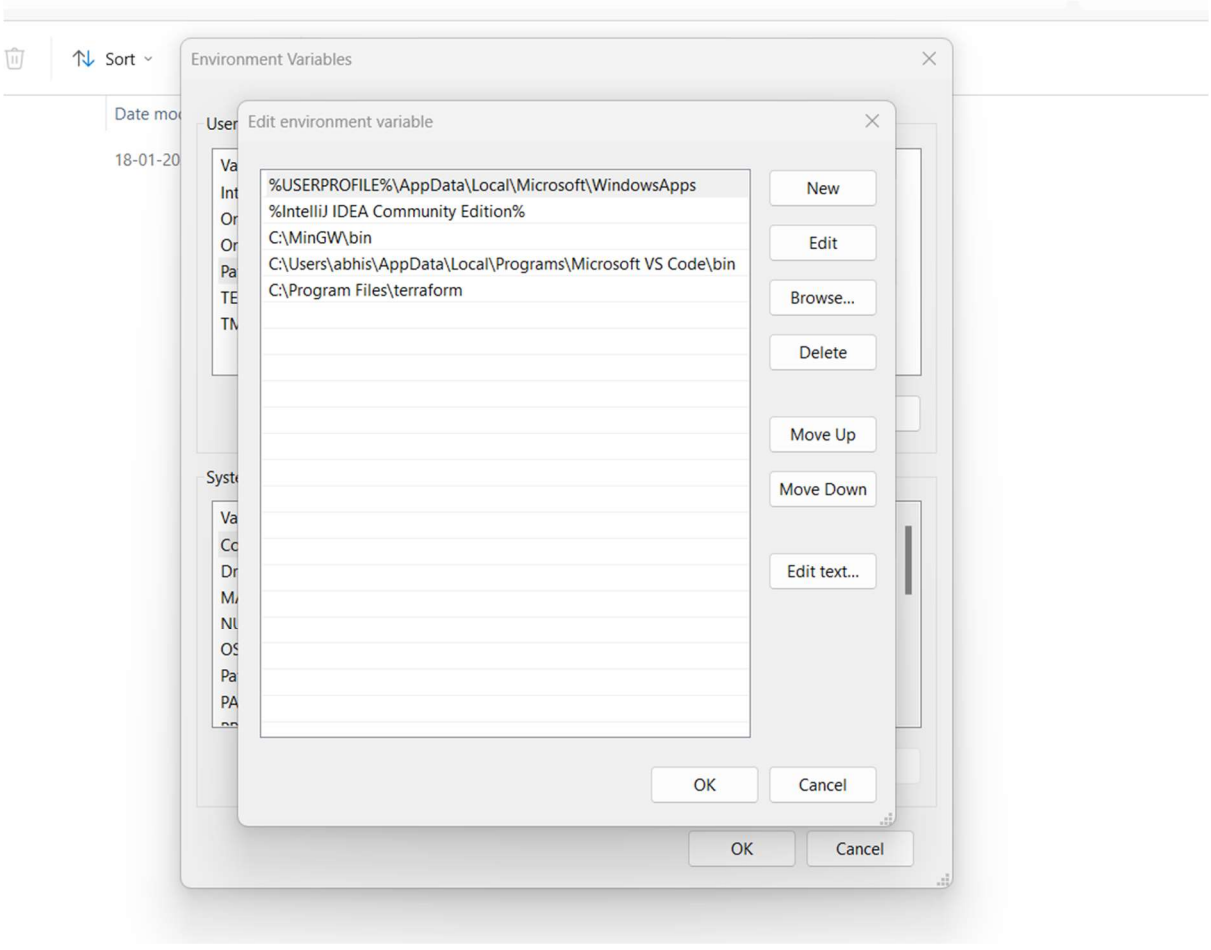
COURSE: SPCM

ROLL NO.: R2142211345

INSTRUCTOR: DR. HITESH SHARMA

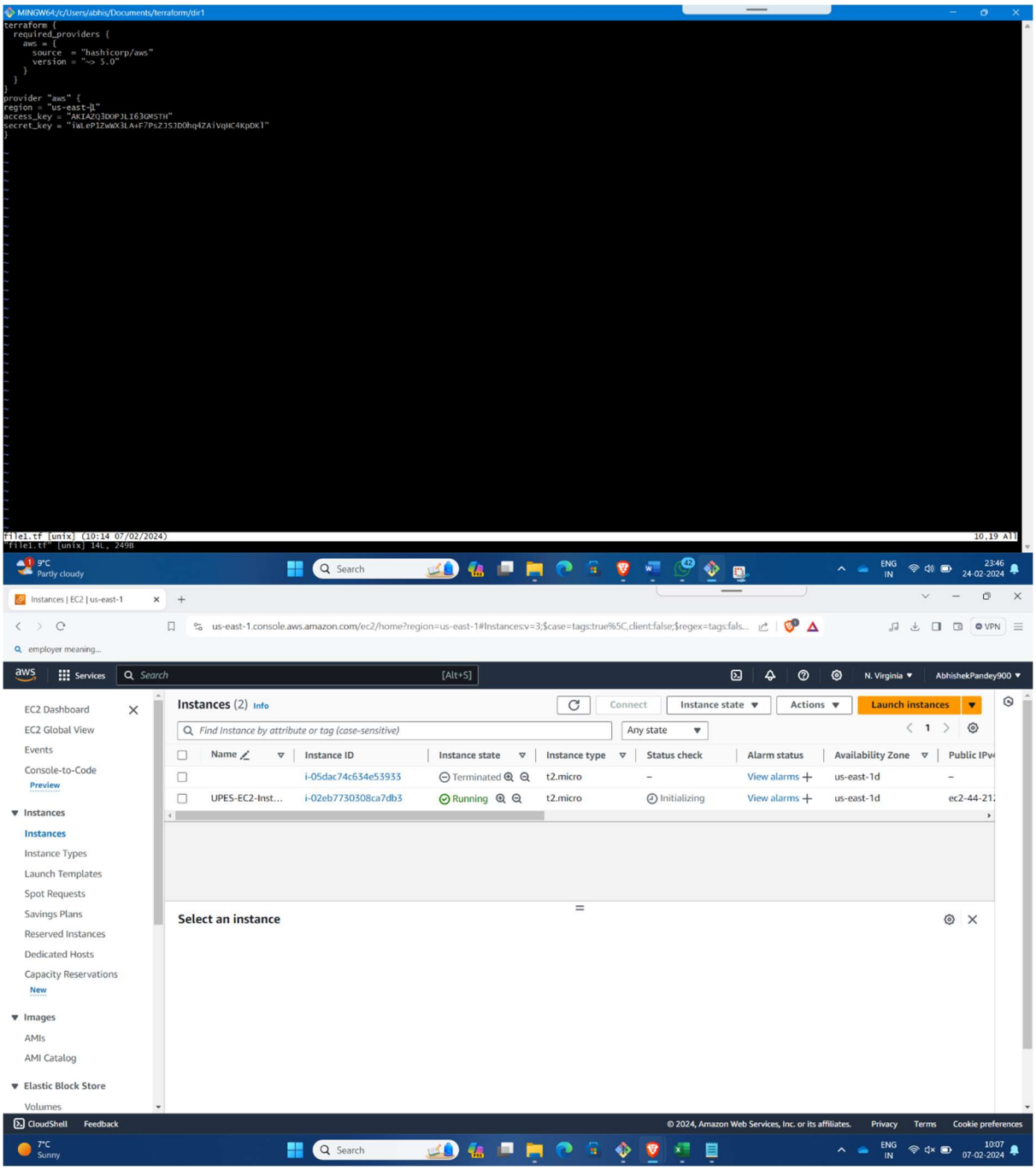
EXPERIMENT-1





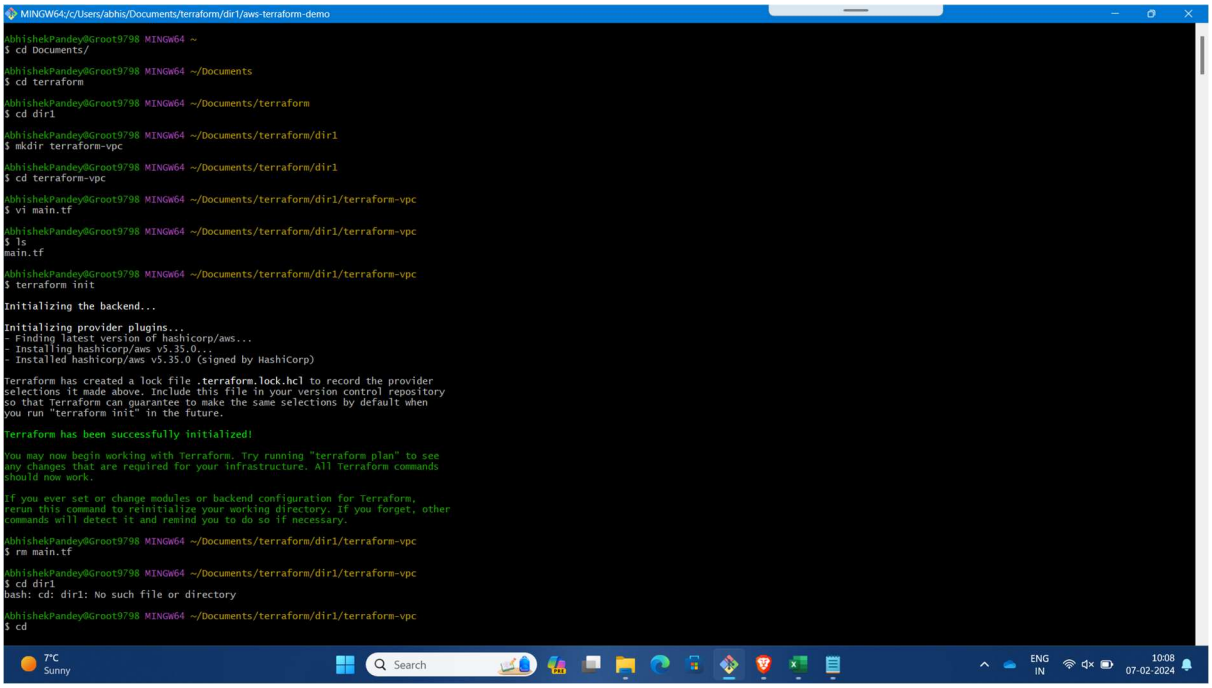
EXPERIMENT-2

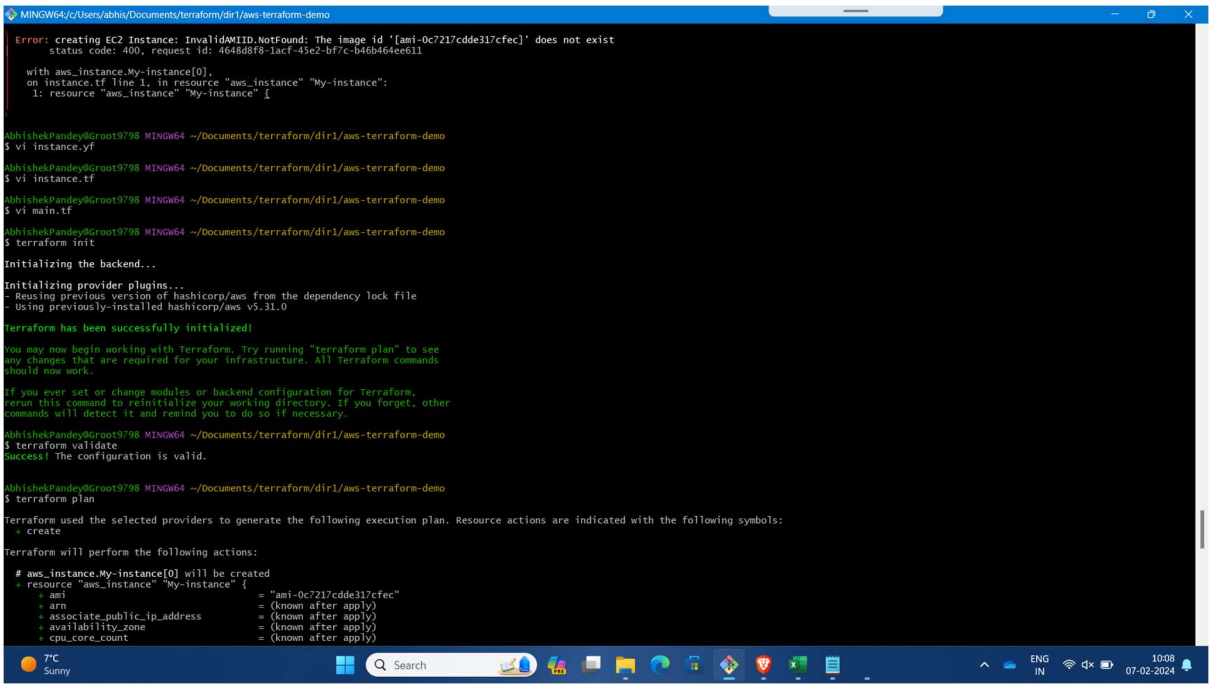
```
AbhishekPandey@Groot9798 MINGW64 ~
$ cd Documents/

AbhishekPandey@Groot9798 MINGW64 ~/Documents
$ mkdir terraform

AbhishekPandey@Groot9798 MINGW64 ~/Documents
$ cd terraform

AbhishekPandey@Groot9798 MINGW64 ~/Documents/terraform
$ ls

AbhishekPandey@Groot9798 MINGW64 ~/Documents/terraform
$ mkdir dir1

AbhishekPandey@Groot9798 MINGW64 ~/Documents/terraform
$ ls
dir1/

AbhishekPandey@Groot9798 MINGW64 ~/Documents/terraform
$ cd dir1

AbhishekPandey@Groot9798 MINGW64 ~/Documents/terraform/dir1
$ ls

AbhishekPandey@Groot9798 MINGW64 ~/Documents/terraform/dir1
$ vi file1.tf

AbhishekPandey@Groot9798 MINGW64 ~/Documents/terraform/dir1
$ ls -a
./  ../  file1.tf

AbhishekPandey@Groot9798 MINGW64 ~/Documents/terraform/dir1
$ terraform init

Initializing the backend...

Initializing provider plugins...
- Finding hashicorp/aws versions matching "~> 5.0"...
- Installing hashicorp/aws v5.33.0...
- Installed hashicorp/aws v5.33.0 (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.
```

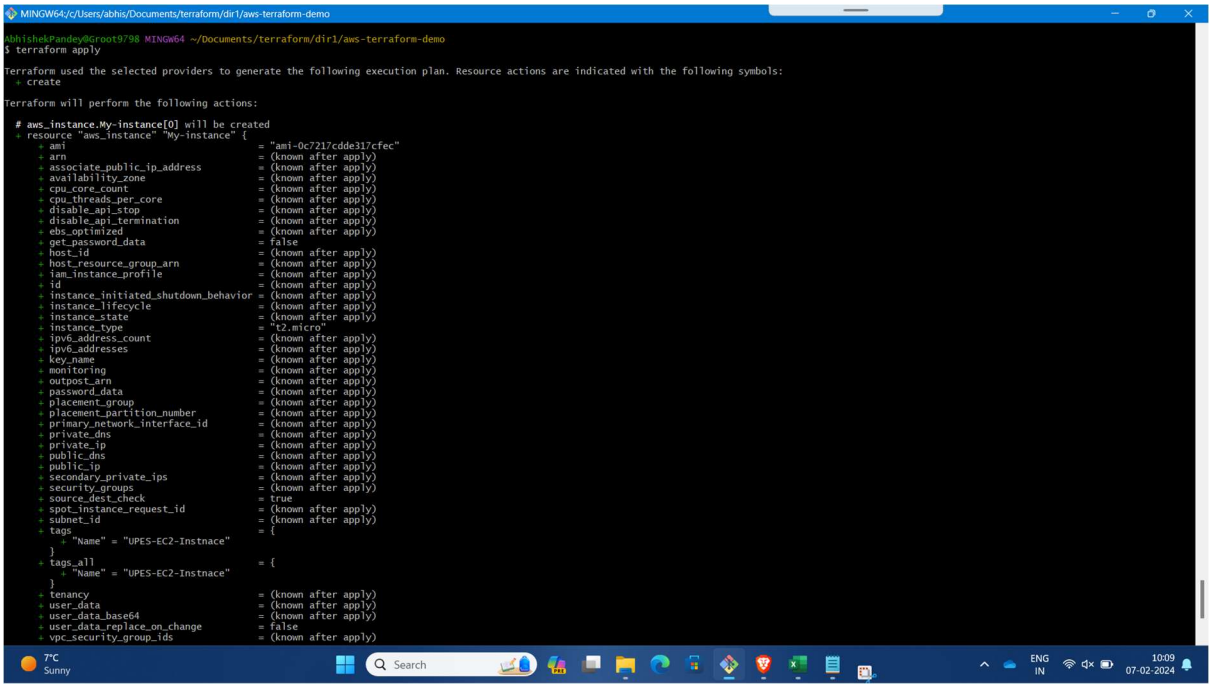

MINGW64:/c/Users/abhis/Documents/terraform/dir1
terraform {
required_providers {
aws = {
source = "hashicorp/aws"
version = "~> 5.0"
}
}
}
provider "aws" {
region = "us-east-1"
access_key = "AKIAZQ3DOPJLI63GM5TH"
secret_key = "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"
}
file1.tf [unix] (10:14 07/02/2024)
10,19 All
"file1.tf" [unix] 14L, 249B
9°C
Partly cloudy
Search
ENG
IN
23:46
24-02-2024
Instances | EC2 | us-east-1
us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#Instances:v=3;$case=tags:true%5C,client:false;$regex=tags:fals...
VPN
employer meaning...
aws
Services
Search
[Alt+S]
N. Virginia
AbhishekPandey900
EC2 Dashboard
EC2 Global View
Events
Console-to-Code
Preview
Instances
Instances
Instance Types
Launch Templates
Spot Requests
Savings Plans
Reserved Instances
Dedicated Hosts
Capacity Reservations
New
Images
AMIs
AMI Catalog
Elastic Block Store
Volumes
Instances (2) Info
Connect
Instance state
Actions
Launch instances
Find Instance by attribute or tag (case-sensitive)
Any state
1
Name
Instance ID
Instance state
Instance type
Status check
Alarm status
Availability Zone
Public IPv
i-05dac74c634e53933
Terminated
t2.micro
–
View alarms
us-east-1d
–
UPES-EC2-Inst...
i-02eb7730308ca7db3
Running
t2.micro
Initializing
View alarms
us-east-1d
ec2-44-21
Select an instance
CloudShell
Feedback
© 2024, Amazon Web Services, Inc. or its affiliates.
Privacy
Terms
Cookie preferences
7°C
Sunny
Search
ENG
IN
10:07
07-02-2024

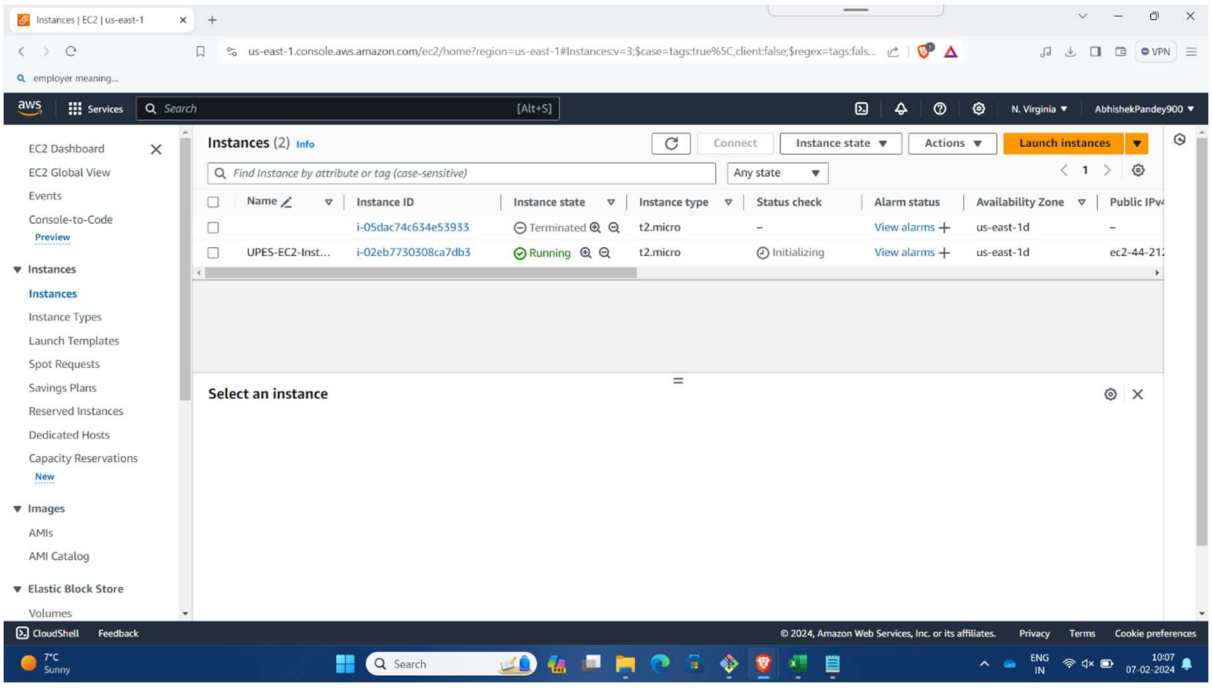
```
AbhishekPandey@Groot9798 MINGW64 ~/Documents/terraform/dir1
$ terraform init

Initializing the backend...

Initializing provider plugins...
- Reusing previous version of hashicorp/aws from the dependency lock file
- Using previously-installed hashicorp/aws v5.33.0

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.

AbhishekPandey@Groot9798 MINGW64 ~/Documents/terraform/dir1
$ vi file1.tf
```

EXPERIMENT-3



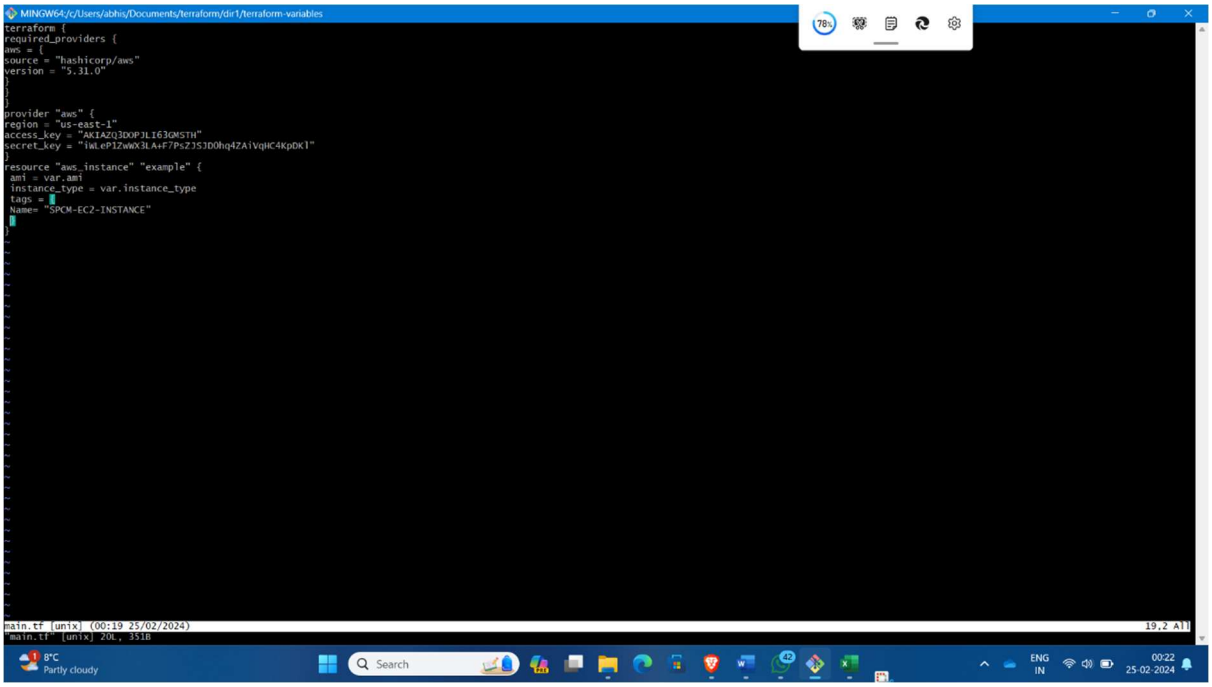


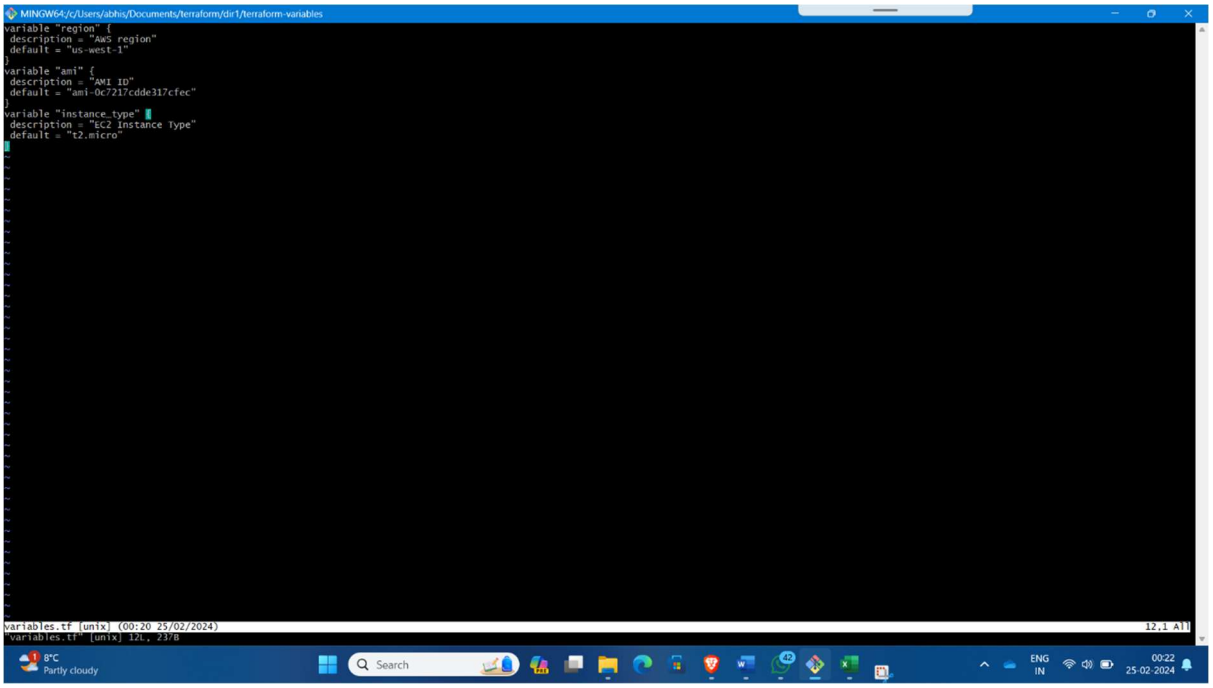

MINGW64:/c/Users/abhis/Documents/terraform/dir1/aws-terraform-demo
AbhishekPandey@Groot9798 MINGW64 ~/Documents/terraform/dir1/aws-terraform-demo
$ terraform apply
Terraform used the selected providers to generate the following execution plan. Resource actions are indicated with the following symbols:
+ create
Terraform will perform the following actions:
# aws_instance.My-instance[0] will be created
+ resource "aws_instance" "My-instance" {
+ ami = "ami-0c7217cdde317cfec"
+ arn = (known after apply)
+ associate_public_ip_address = (known after apply)
+ availability_zone = (known after apply)
+ cpu_core_count = (known after apply)
+ cpu_threads_per_core = (known after apply)
+ disable_api_stop = (known after apply)
+ disable_api_termination = (known after apply)
+ ebs_optimized = (known after apply)
+ get_password_data = false
+ host_id = (known after apply)
+ host_resource_group_arn = (known after apply)
+ iam_instance_profile = (known after apply)
+ id = (known after apply)
+ instance_initiated_shutdown_behavior = (known after apply)
+ instance_lifecycle = (known after apply)
+ instance_state = (known after apply)
+ instance_type = "t2.micro"
+ ipv6_address_count = (known after apply)
+ ipv6_addresses = (known after apply)
+ key_name = (known after apply)
+ monitoring = (known after apply)
+ outpost_arn = (known after apply)
+ password_data = (known after apply)
+ placement_group = (known after apply)
+ placement_partition_number = (known after apply)
+ primary_network_interface_id = (known after apply)
+ private_dns = (known after apply)
+ private_ip = (known after apply)
+ public_dns = (known after apply)
+ public_ip = (known after apply)
+ secondary_private_ips = (known after apply)
+ security_groups = (known after apply)
+ source_dest_check = true
+ spot_instance_request_id = (known after apply)
+ subnet_id = (known after apply)
+ tags = {
+ "Name" = "UPES-EC2-Instnace"
}
+ tags_all = {
+ "Name" = "UPES-EC2-Instnace"
}
+ tenancy = (known after apply)
+ user_data = (known after apply)
+ user_data_base64 = (known after apply)
+ user_data_replace_on_change = false
+ vpc_security_group_ids = (known after apply)
7°C
Sunny
Search
ENG
IN
10:09
07-02-2024

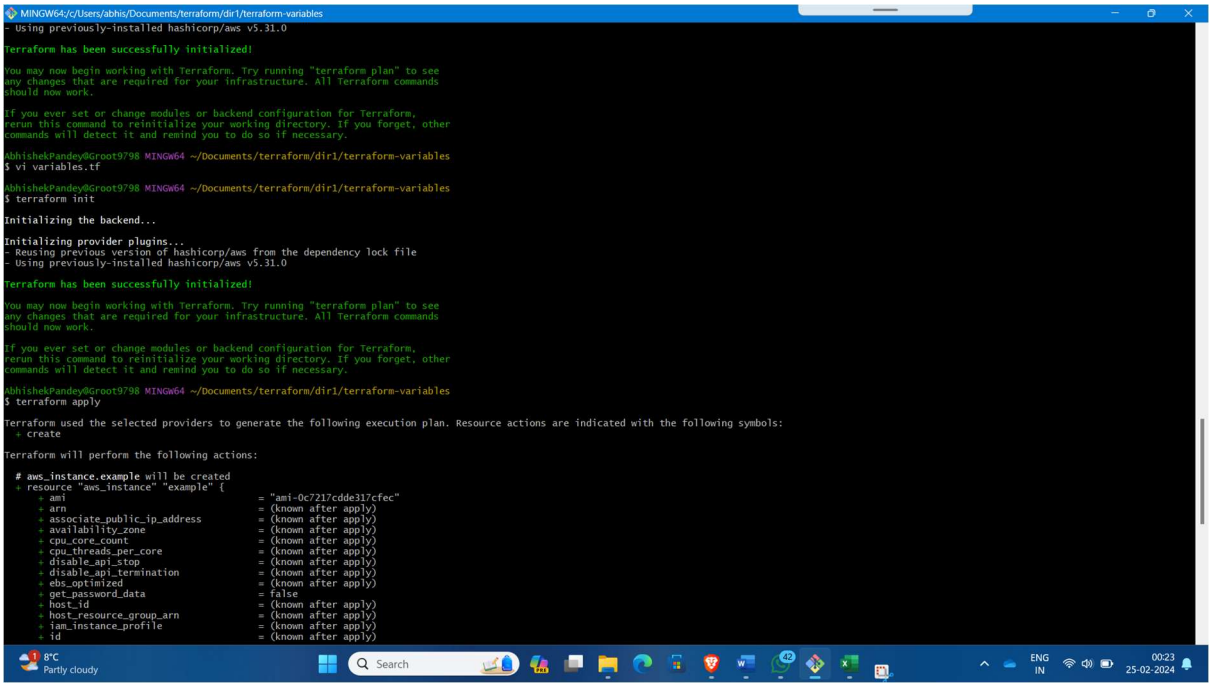

Instances | EC2 | us-east-1
us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#Instances:v=3;$case=tags:true%5C,client:false;$regex=tags:fals...
VPN
employer meaning...
aws
Services
Search
[Alt+S]
N. Virginia
AbhishekPandey900
EC2 Dashboard
EC2 Global View
Events
Console-to-Code
Preview
Instances
Instances
Instance Types
Launch Templates
Spot Requests
Savings Plans
Reserved Instances
Dedicated Hosts
Capacity Reservations
New
Images
AMIs
AMI Catalog
Elastic Block Store
Volumes
Instances (2) Info
Connect
Instance state
Actions
Launch instances
Find Instance by attribute or tag (case-sensitive)
Any state
Name
Instance ID
Instance state
Instance type
Status check
Alarm status
Availability Zone
Public IPv4
i-05dac74c634e53933
Terminated
t2.micro
–
View alarms
us-east-1d
–
UPES-EC2-Inst...
i-02eb7730308ca7db3
Running
t2.micro
Initializing
View alarms
us-east-1d
ec2-44-21
Select an instance
CloudShell
Feedback
© 2024, Amazon Web Services, Inc. or its affiliates.
Privacy
Terms
Cookie preferences
7°C
Sunny
Search
ENG
IN
10:07
07-02-2024

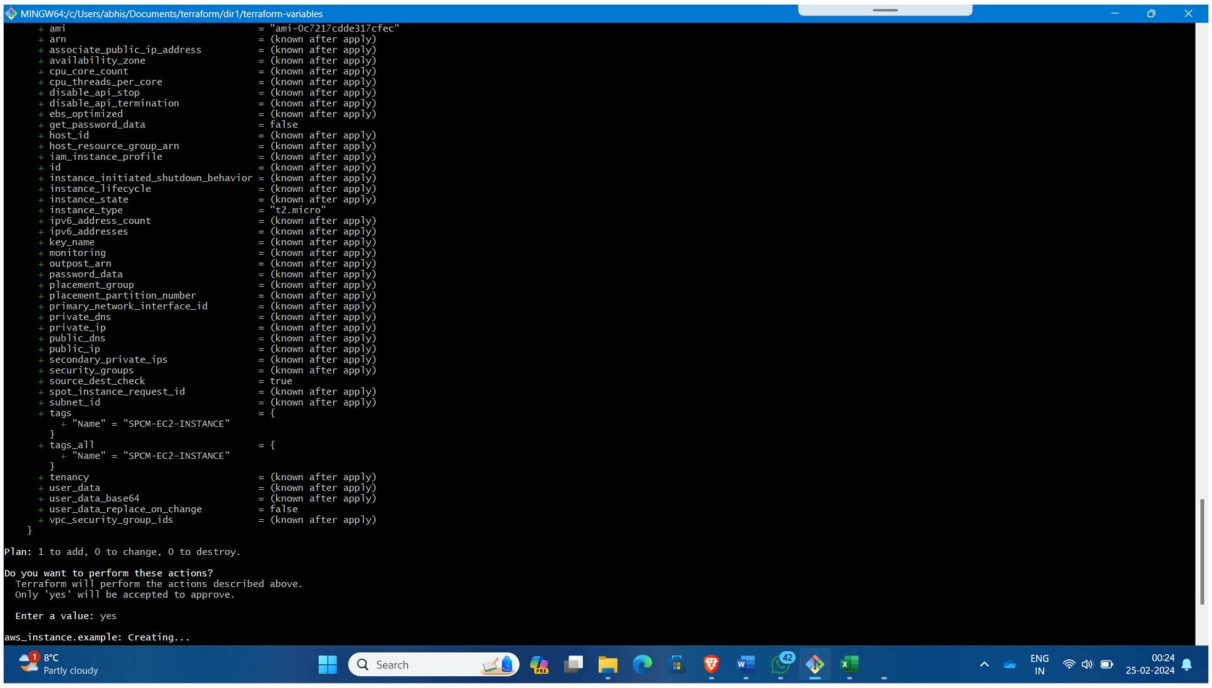
EXPERIMENT-4

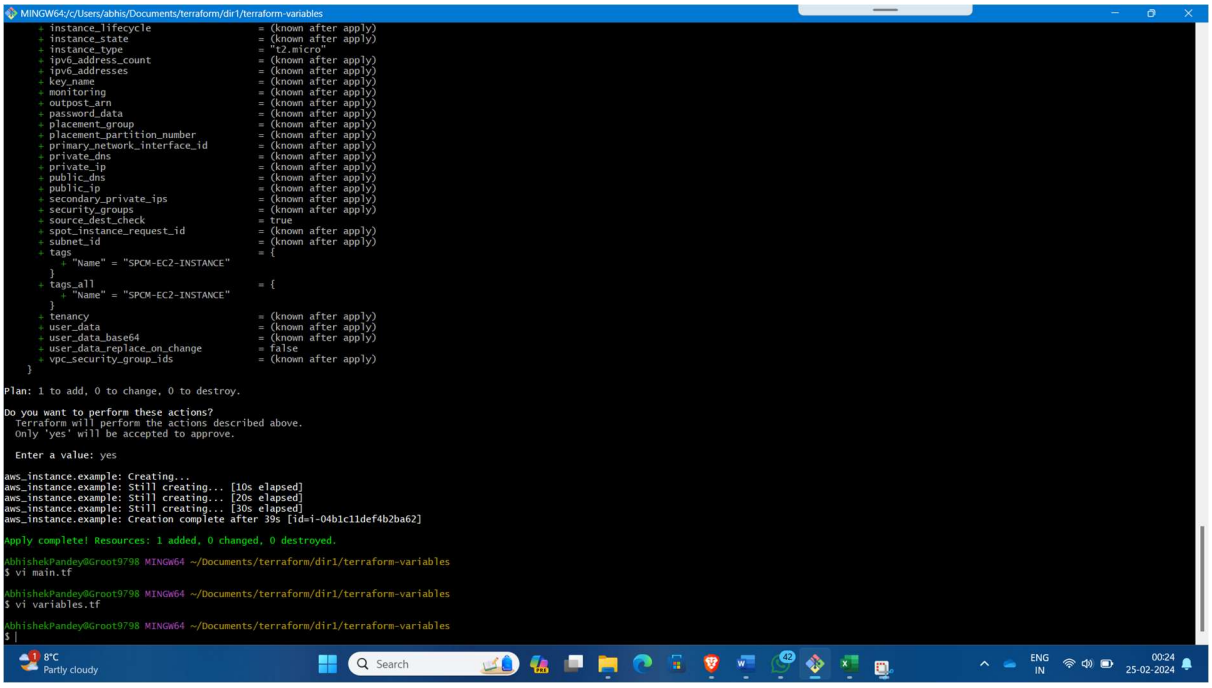
```
AbhishekPandey@Groot9798 MINGW64 ~/Documents/terraform/dir1
$ mkdir terraform-variables

AbhishekPandey@Groot9798 MINGW64 ~/Documents/terraform/dir1
$ cd terraform-variables

AbhishekPandey@Groot9798 MINGW64 ~/Documents/terraform/dir1/terraform-variables
$ vi main.tf

AbhishekPandey@Groot9798 MINGW64 ~/Documents/terraform/dir1/terraform-variables
$ terraform init

Initializing the backend...

Initializing provider plugins...
- Finding hashicorp/aws versions matching "5.31.0"...
- Installing hashicorp/aws v5.31.0...
- Installed hashicorp/aws v5.31.0 (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.
```

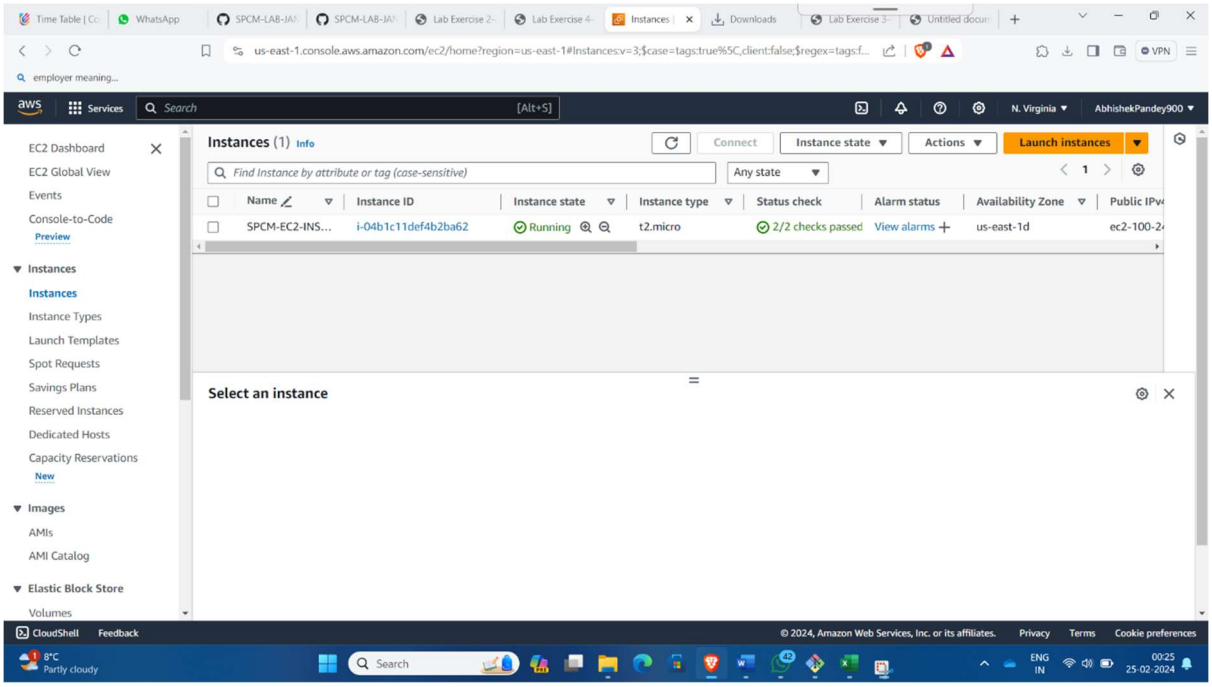


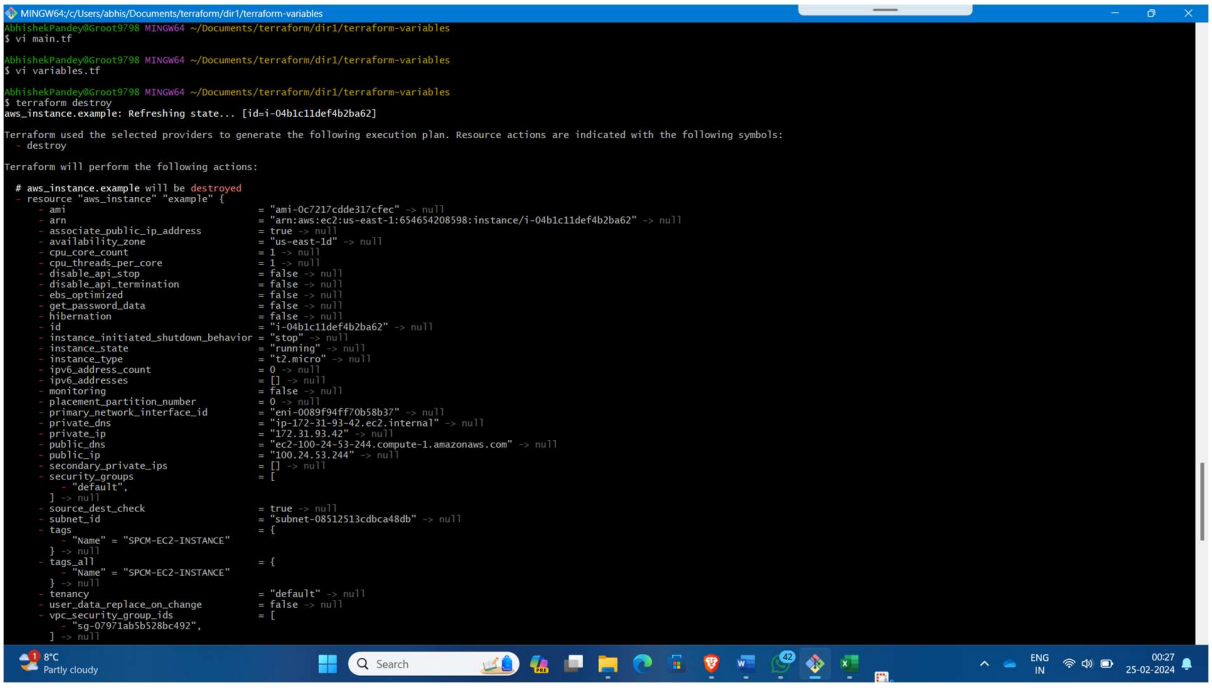

MINGW64:/c/Users/abhis/Documents/terraform/dir1/terraform-variables
variable "region" {
description = "AWS region"
default = "us-west-1"
}
variable "ami" {
description = "AMI ID"
default = "ami-0c7217cdde317cfec"
}
variable "instance_type" {
description = "EC2 Instance Type"
default = "t2.micro"
}
variables.tf [unix] (00:20 25/02/2024)
12,1 All
"variables.tf" [unix] 12L, 237B
8°C
Partly cloudy
Search
ENG
IN
00:22
25-02-2024

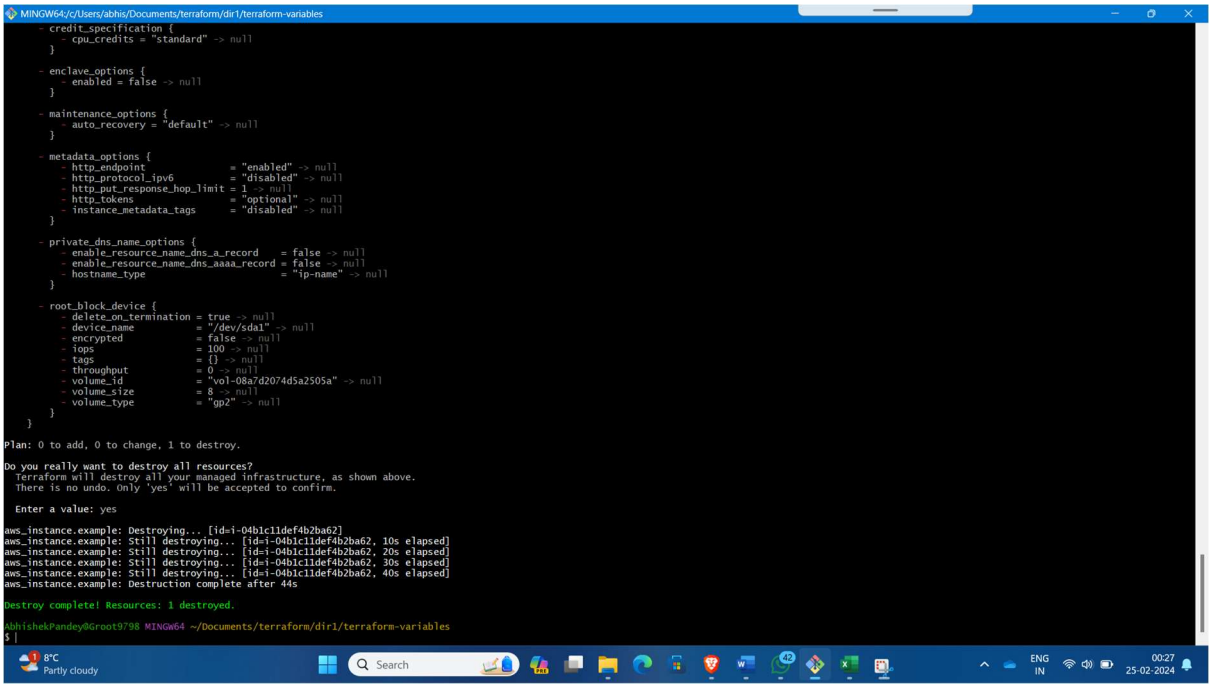

MINGW64:/c/Users/abhis/Documents/terraform/dir1/terraform-variables
- Using previously-installed hashicorp/aws v5.31.0
Terraform has been successfully initialized!
You may now begin working with Terraform. Try running "terraform plan" to see
any changes that are required for your infrastructure. All 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.
AbhishekPandey@Groot9798 MINGW64 ~/Documents/terraform/dir1/terraform-variables
$ vi variables.tf
AbhishekPandey@Groot9798 MINGW64 ~/Documents/terraform/dir1/terraform-variables
$ terraform init
Initializing the backend...
Initializing provider plugins...
- Reusing previous version of hashicorp/aws from the dependency lock file
- Using previously-installed hashicorp/aws v5.31.0
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.
AbhishekPandey@Groot9798 MINGW64 ~/Documents/terraform/dir1/terraform-variables
$ terraform apply
Terraform used the selected providers to generate the following execution plan. Resource actions are indicated with the following symbols:
+ create
Terraform will perform the following actions:
# aws_instance.example will be created
+ resource "aws_instance" "example" {
+ ami = "ami-0c7217cdde317cfec"
+ arn = (known after apply)
+ associate_public_ip_address = (known after apply)
+ availability_zone = (known after apply)
+ cpu_core_count = (known after apply)
+ cpu_threads_per_core = (known after apply)
+ disable_api_stop = (known after apply)
+ disable_api_termination = (known after apply)
+ ebs_optimized = (known after apply)
+ get_password_data = false
+ host_id = (known after apply)
+ host_resource_group_arn = (known after apply)
+ iam_instance_profile = (known after apply)
+ id = (known after apply)
8°C
Partly cloudy
Search
ENG
IN
00:23
25-02-2024

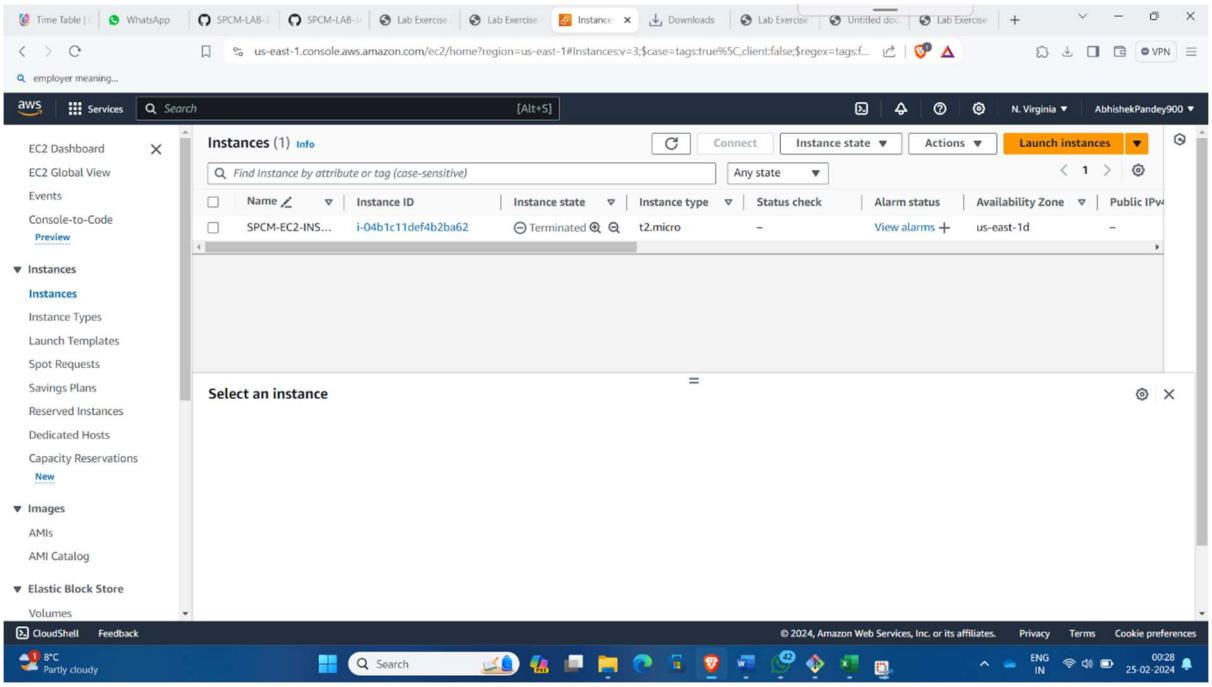

MINGW64:/c/Users/abhis/Documents/terraform/dir1/terraform-variables
+ ami = "ami-0c7217cdde317cfec"
+ arn = (known after apply)
+ associate_public_ip_address = (known after apply)
+ availability_zone = (known after apply)
+ cpu_core_count = (known after apply)
+ cpu_threads_per_core = (known after apply)
+ disable_api_stop = (known after apply)
+ disable_api_termination = (known after apply)
+ ebs_optimized = (known after apply)
+ get_password_data = false
+ host_id = (known after apply)
+ host_resource_group_arn = (known after apply)
+ iam_instance_profile = (known after apply)
+ id = (known after apply)
+ instance_initiated_shutdown_behavior = (known after apply)
+ instance_lifecycle = (known after apply)
+ instance_state = (known after apply)
+ instance_type = "t2.micro"
+ ipv6_address_count = (known after apply)
+ ipv6_addresses = (known after apply)
+ key_name = (known after apply)
+ monitoring = (known after apply)
+ outpost_arn = (known after apply)
+ password_data = (known after apply)
+ placement_group = (known after apply)
+ placement_partition_number = (known after apply)
+ primary_network_interface_id = (known after apply)
+ private_dns = (known after apply)
+ private_ip = (known after apply)
+ public_dns = (known after apply)
+ public_ip = (known after apply)
+ secondary_private_ips = (known after apply)
+ security_groups = (known after apply)
+ source_dest_check = true
+ spot_instance_request_id = (known after apply)
+ subnet_id = (known after apply)
+ tags = {
+ "Name" = "SPCM-EC2-INSTANCE"
}
+ tags_all = {
+ "Name" = "SPCM-EC2-INSTANCE"
}
+ tenancy = (known after apply)
+ user_data = (known after apply)
+ user_data_base64 = (known after apply)
+ user_data_replace_on_change = false
+ vpc_security_group_ids = (known after apply)
}
Plan: 1 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.example: Creating...
8°C
Partly cloudy
Search
ENG
IN
00:24
25-02-2024


MINGW64:/c/Users/abhis/Documents/terraform/dir1/terraform-variables
+ instance_lifecycle = (known after apply)
+ instance_state = (known after apply)
+ instance_type = "t2.micro"
+ ipv6_address_count = (known after apply)
+ ipv6_addresses = (known after apply)
+ key_name = (known after apply)
+ monitoring = (known after apply)
+ outpost_arn = (known after apply)
+ password_data = (known after apply)
+ placement_group = (known after apply)
+ placement_partition_number = (known after apply)
+ primary_network_interface_id = (known after apply)
+ private_dns = (known after apply)
+ private_ip = (known after apply)
+ public_dns = (known after apply)
+ public_ip = (known after apply)
+ secondary_private_ips = (known after apply)
+ security_groups = (known after apply)
+ source_dest_check = true
+ spot_instance_request_id = (known after apply)
+ subnet_id = (known after apply)
+ tags = {
+ "Name" = "SPCM-EC2-INSTANCE"
}
+ tags_all = {
+ "Name" = "SPCM-EC2-INSTANCE"
}
+ tenancy = (known after apply)
+ user_data = (known after apply)
+ user_data_base64 = (known after apply)
+ user_data_replace_on_change = false
+ vpc_security_group_ids = (known after apply)
}
Plan: 1 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.example: Creating...
aws_instance.example: Still creating... [10s elapsed]
aws_instance.example: Still creating... [20s elapsed]
aws_instance.example: Still creating... [30s elapsed]
aws_instance.example: Creation complete after 39s [id=i-04b1c11def4b2ba62]
Apply complete! Resources: 1 added, 0 changed, 0 destroyed.
AbhishekPandey@Groot9798 MINGW64 ~/Documents/terraform/dir1/terraform-variables
$ vi main.tf
AbhishekPandey@Groot9798 MINGW64 ~/Documents/terraform/dir1/terraform-variables
$ vi variables.tf
AbhishekPandey@Groot9798 MINGW64 ~/Documents/terraform/dir1/terraform-variables
$
8°C
Partly cloudy
Search
ENG
IN
00:24
25-02-2024


us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#Instances:v=3;$case=tags:true%5C,client:false;$regex=tags:f...
Services
Search
[Alt+S]
N. Virginia
AbhishekPandey900
EC2 Dashboard
EC2 Global View
Events
Console-to-Code
Preview
Instances
Instances
Instance Types
Launch Templates
Spot Requests
Savings Plans
Reserved Instances
Dedicated Hosts
Capacity Reservations
New
Images
AMIs
AMI Catalog
Elastic Block Store
Volumes
Instances (1) Info
Connect
Instance state
Actions
Launch instances
Find instance by attribute or tag (case-sensitive)
Any state
Name
Instance ID
Instance state
Instance type
Status check
Alarm status
Availability Zone
Public IPv
SPCM-EC2-INS...
i-04b1c11def4b2ba62
Running
t2.micro
2/2 checks passed
View alarms
us-east-1d
Select an instance
CloudShell
Feedback
© 2024, Amazon Web Services, Inc. or its affiliates.
Privacy
Terms
Cookie preferences
8°C
Partly cloudy
Search
ENG
IN
00:25
25-02-2024

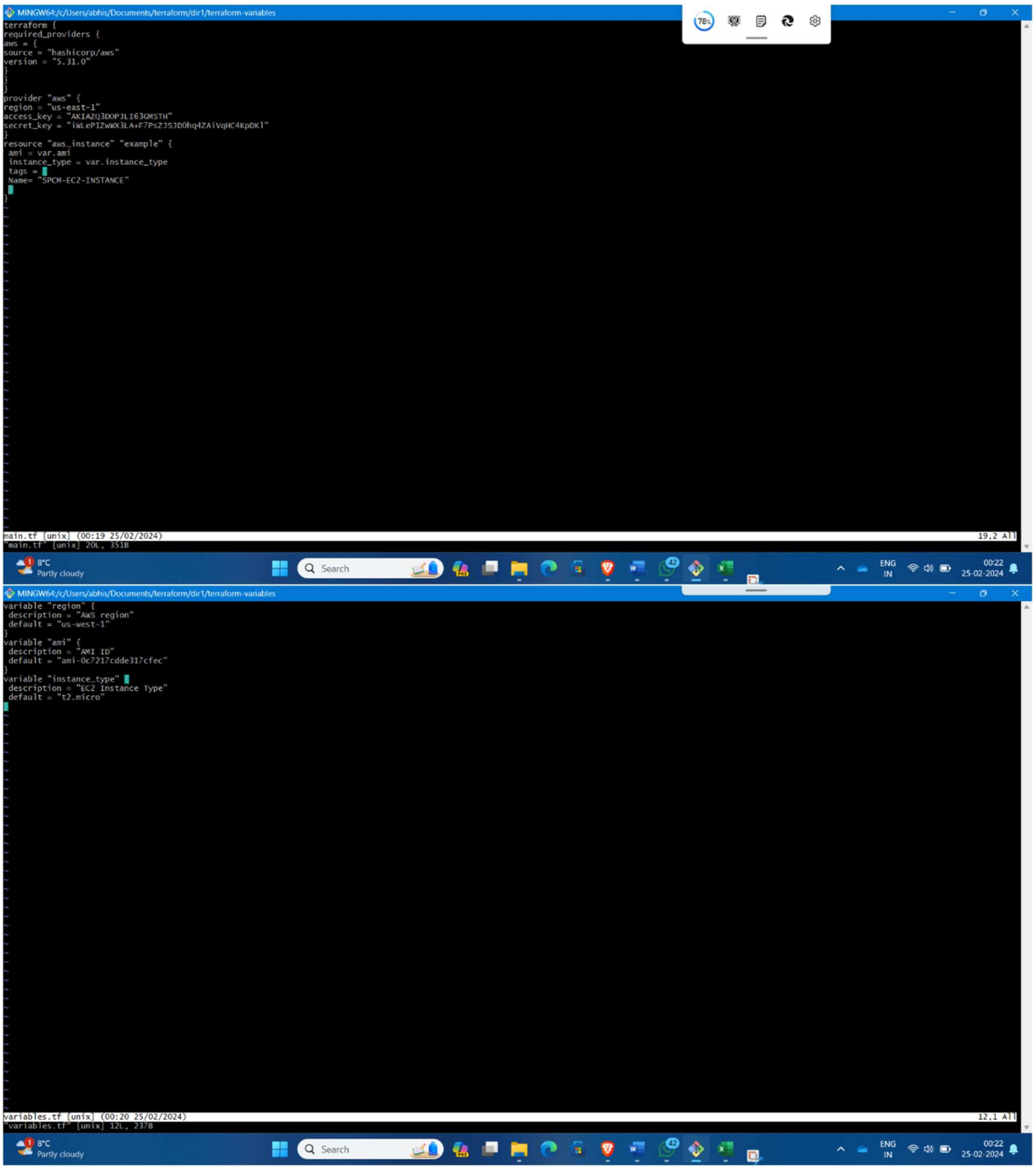

MINGW64:/c/Users/abhis/Documents/terraform/dir1/terraform-variables
AbhishekPandey@Groot9798 MINGW64 ~/Documents/terraform/dir1/terraform-variables
$ vi main.tf
AbhishekPandey@Groot9798 MINGW64 ~/Documents/terraform/dir1/terraform-variables
$ vi variables.tf
AbhishekPandey@Groot9798 MINGW64 ~/Documents/terraform/dir1/terraform-variables
$ terraform destroy
aws_instance.example: Refreshing state... [id=i-04b1c11def4b2ba62]
Terraform used the selected providers to generate the following execution plan. Resource actions are indicated with the following symbols:
- destroy
Terraform will perform the following actions:
# aws_instance.example will be destroyed
- resource "aws_instance" "example" {
- ami = "ami-0c7217cdde317cfec" -> null
- arn = "arn:aws:ec2:us-east-1:654654208598:instance/i-04b1c11def4b2ba62" -> null
- associate_public_ip_address = true -> null
- availability_zone = "us-east-1d" -> null
- cpu_core_count = 1 -> null
- cpu_threads_per_core = 1 -> null
- disable_api_stop = false -> null
- disable_api_termination = false -> null
- ebs_optimized = false -> null
- get_password_data = false -> null
- hibernation = false -> null
- id = "i-04b1c11def4b2ba62" -> null
- instance_initiated_shutdown_behavior = "stop" -> null
- instance_state = "running" -> null
- instance_type = "t2.micro" -> null
- ipv6_address_count = 0 -> null
- ipv6_addresses = [] -> null
- monitoring = false -> null
- placement_partition_number = 0 -> null
- primary_network_interface_id = "eni-0089f94ff70b58b37" -> null
- private_dns = "ip-172-31-93-42.ec2.internal" -> null
- private_ip = "172.31.93.42" -> null
- public_dns = "ec2-100-24-53-244.compute-1.amazonaws.com" -> null
- public_ip = "100.24.53.244" -> null
- secondary_private_ips = [] -> null
- security_groups = [
- "default",
] -> null
- source_dest_check = true -> null
- subnet_id = "subnet-08512513cdbca48db" -> null
- tags = {
- "Name" = "SPCM-EC2-INSTANCE"
} -> null
- tags_all = {
- "Name" = "SPCM-EC2-INSTANCE"
} -> null
- tenancy = "default" -> null
- user_data_replace_on_change = false -> null
- vpc_security_group_ids = [
- "sg-07971ab5b528bc492",
] -> null
8°C
Partly cloudy
Search
ENG
IN
00:27
25-02-2024


MINGW64:/c/Users/abhis/Documents/terraform/dir1/terraform-variables
- credit_specification {
- cpu_credits = "standard" -> null
}
- enclave_options {
- enabled = false -> null
}
- maintenance_options {
- auto_recovery = "default" -> null
}
- metadata_options {
- http_endpoint = "enabled" -> null
- http_protocol_ipv6 = "disabled" -> null
- http_put_response_hop_limit = 1 -> null
- http_tokens = "optional" -> null
- instance_metadata_tags = "disabled" -> null
}
- private_dns_name_options {
- enable_resource_name_dns_a_record = false -> null
- enable_resource_name_dns_aaaa_record = false -> null
- hostname_type = "ip-name" -> null
}
- root_block_device {
- delete_on_termination = true -> null
- device_name = "/dev/sda1" -> null
- encrypted = false -> null
- iops = 100 -> null
- tags = {} -> null
- throughput = 0 -> null
- volume_id = "vol-08a7d2074d5a2505a" -> null
- volume_size = 8 -> null
- volume_type = "gp2" -> null
}
}
Plan: 0 to add, 0 to change, 1 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.example: Destroying... [id=i-04b1c11def4b2ba62]
aws_instance.example: Still destroying... [id=i-04b1c11def4b2ba62, 10s elapsed]
aws_instance.example: Still destroying... [id=i-04b1c11def4b2ba62, 20s elapsed]
aws_instance.example: Still destroying... [id=i-04b1c11def4b2ba62, 30s elapsed]
aws_instance.example: Still destroying... [id=i-04b1c11def4b2ba62, 40s elapsed]
aws_instance.example: Destruction complete after 44s
Destroy complete! Resources: 1 destroyed.
AbhishekPandey@Groot9798 MINGW64 ~/Documents/terraform/dir1/terraform-variables
$
8°C
Partly cloudy
Search
ENG
IN
00:27
25-02-2024


us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#Instances:v=3;$case=tags:true%5C,client:false;$regex=tags:f...
aws
Services
Search
[Alt+S]
N. Virginia
AbhishekPandey900
EC2 Dashboard
EC2 Global View
Events
Console-to-Code
Preview
Instances
Instances
Instance Types
Launch Templates
Spot Requests
Savings Plans
Reserved Instances
Dedicated Hosts
Capacity Reservations
New
Images
AMIs
AMI Catalog
Elastic Block Store
Volumes
Instances (1) Info
Connect
Instance state
Actions
Launch instances
Find Instance by attribute or tag (case-sensitive)
Any state
Name
Instance ID
Instance state
Instance type
Status check
Alarm status
Availability Zone
Public IPv4
SPCM-EC2-INS...
i-04b1c11def4b2ba62
Terminated
t2.micro
View alarms
us-east-1d
Select an instance
CloudShell
Feedback
© 2024, Amazon Web Services, Inc. or its affiliates.
Privacy
Terms
Cookie preferences
8°C
Partly cloudy
Search
ENG
IN
00:28
25-02-2024

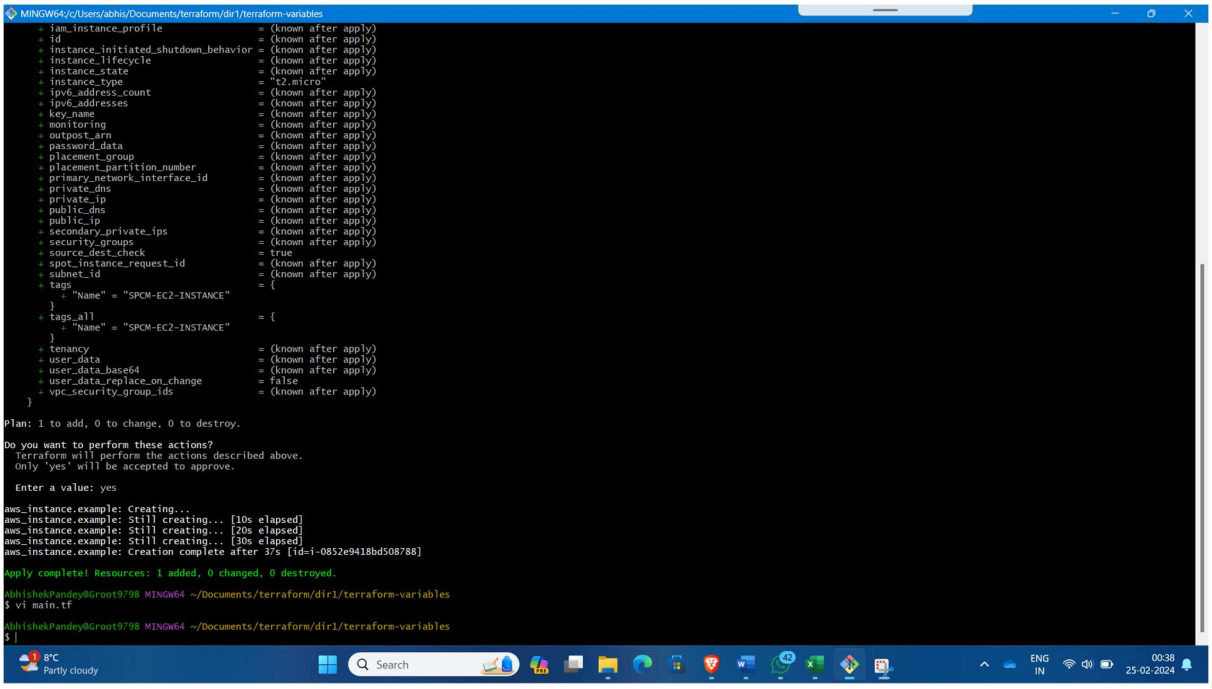
EXPERIMENT-5

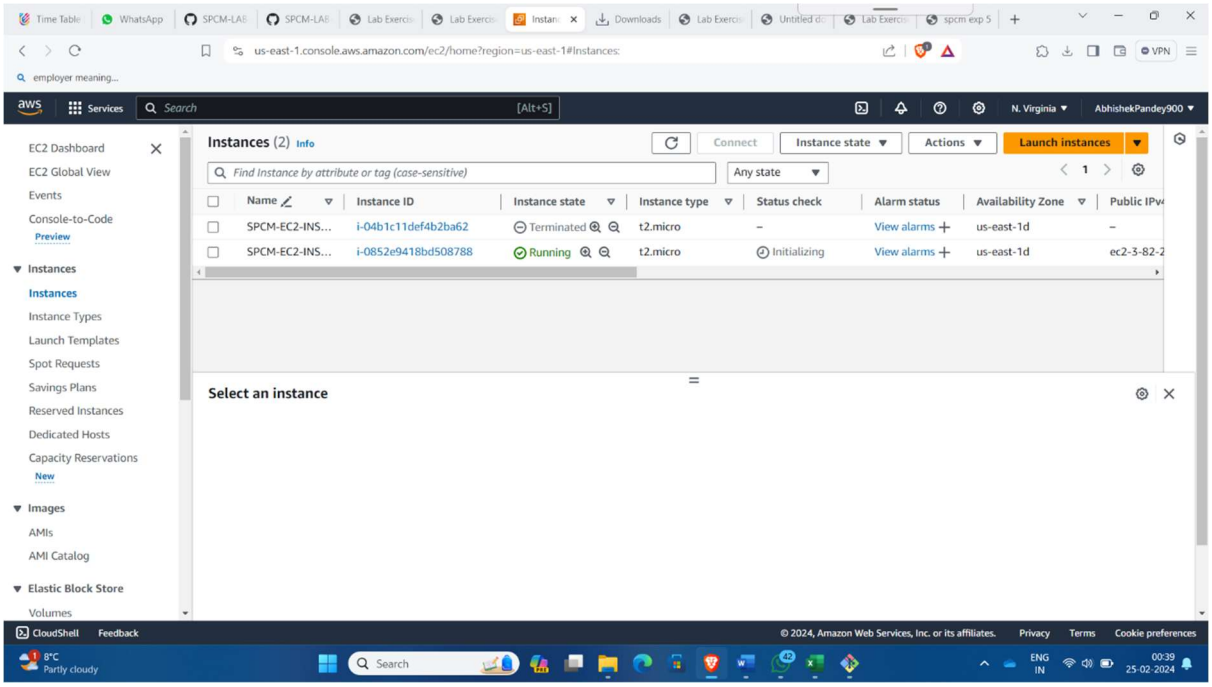
```
AbhishekPandey@Groot9798 MINGW64 ~/Documents/terraform/dir1
$ mkdir terraform-variables

AbhishekPandey@Groot9798 MINGW64 ~/Documents/terraform/dir1
$ cd terraform-variables

AbhishekPandey@Groot9798 MINGW64 ~/Documents/terraform/dir1/terraform-variables
$ vi main.tf

AbhishekPandey@Groot9798 MINGW64 ~/Documents/terraform/dir1/terraform-variables
$ terraform init

Initializing the backend...

Initializing provider plugins...
- Finding hashicorp/aws versions matching "5.31.0"...
- Installing hashicorp/aws v5.31.0...
- Installed hashicorp/aws v5.31.0 (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.
```

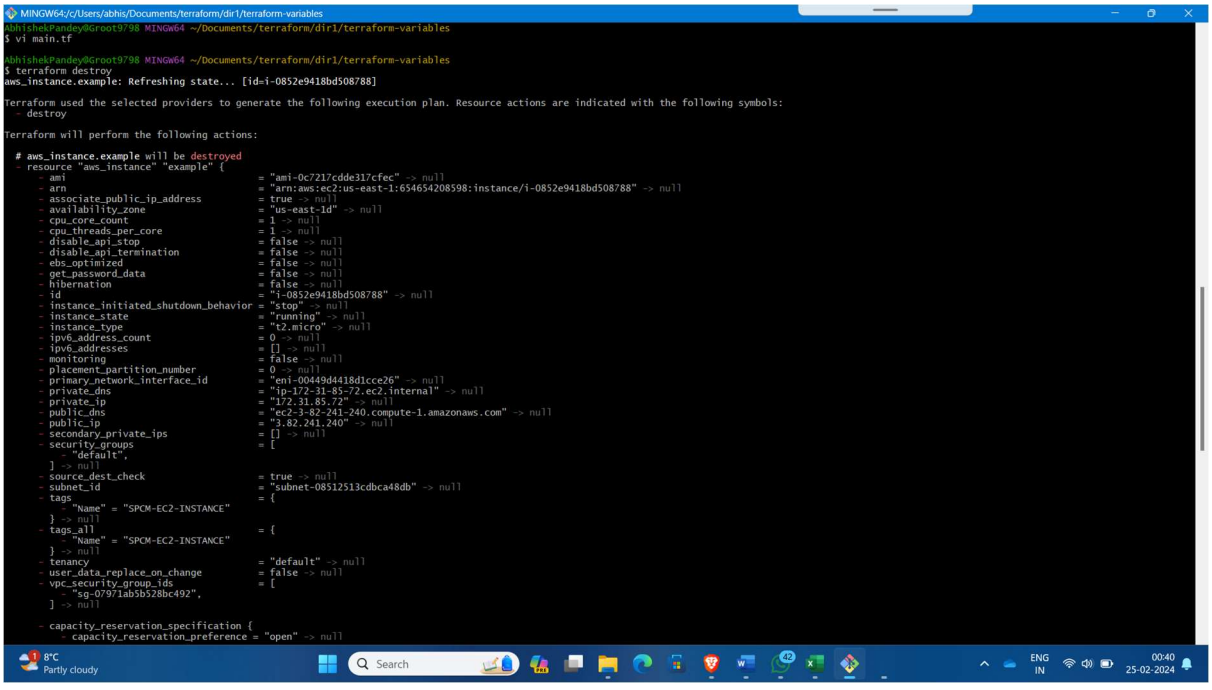

MINGW64:/c/Users/abhis/Documents/terraform/dir1/terraform-variables
terraform {
required_providers {
aws = {
source = "hashicorp/aws"
version = "5.31.0"
}
}
}
provider "aws" {
region = "us-east-1"
access_key = "AKIA2QJ3DOPJLI63GM5TH"
secret_key = "iwLeP1ZwWX3LA+F7PsZJS3D0hq4ZAiVqHC4KpDKl"
}
resource "aws_instance" "example" {
ami = var.ami
instance_type = var.instance_type
tags = {
Name= "SPCM-EC2-INSTANCE"
}
}
main.tf [unix] (00:19 25/02/2024) 19,2 All
"main.tf" [unix] 20L, 351B
8°C
Partly cloudy
Search
ENG
IN
00:22
25-02-2024

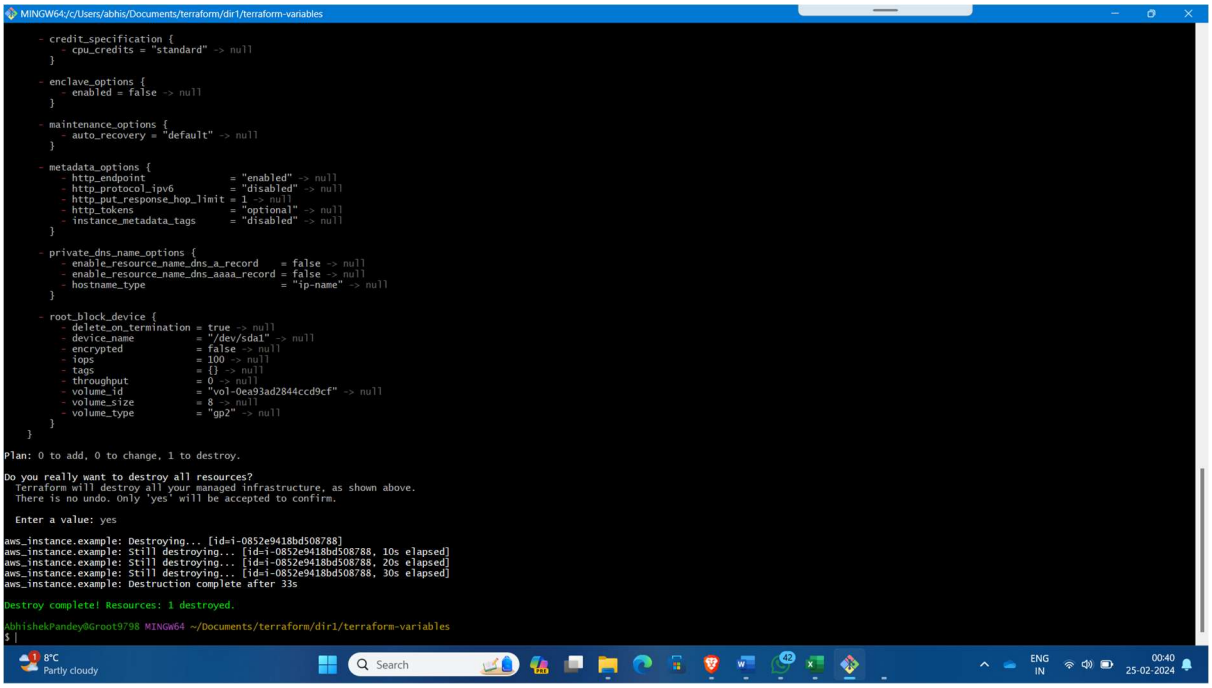
MINGW64:/c/Users/abhis/Documents/terraform/dir1/terraform-variables
variable "region" {
description = "AWS region"
default = "us-west-1"
}
variable "ami" {
description = "AMI ID"
default = "ami-0c7217cdde317cfec"
}
variable "instance_type" {
description = "EC2 Instance Type"
default = "t2.micro"
variables.tf [unix] (00:20 25/02/2024) 12,1 All
"variables.tf" [unix] 12L, 237B
8°C
Partly cloudy
Search
ENG
IN
00:22
25-02-2024

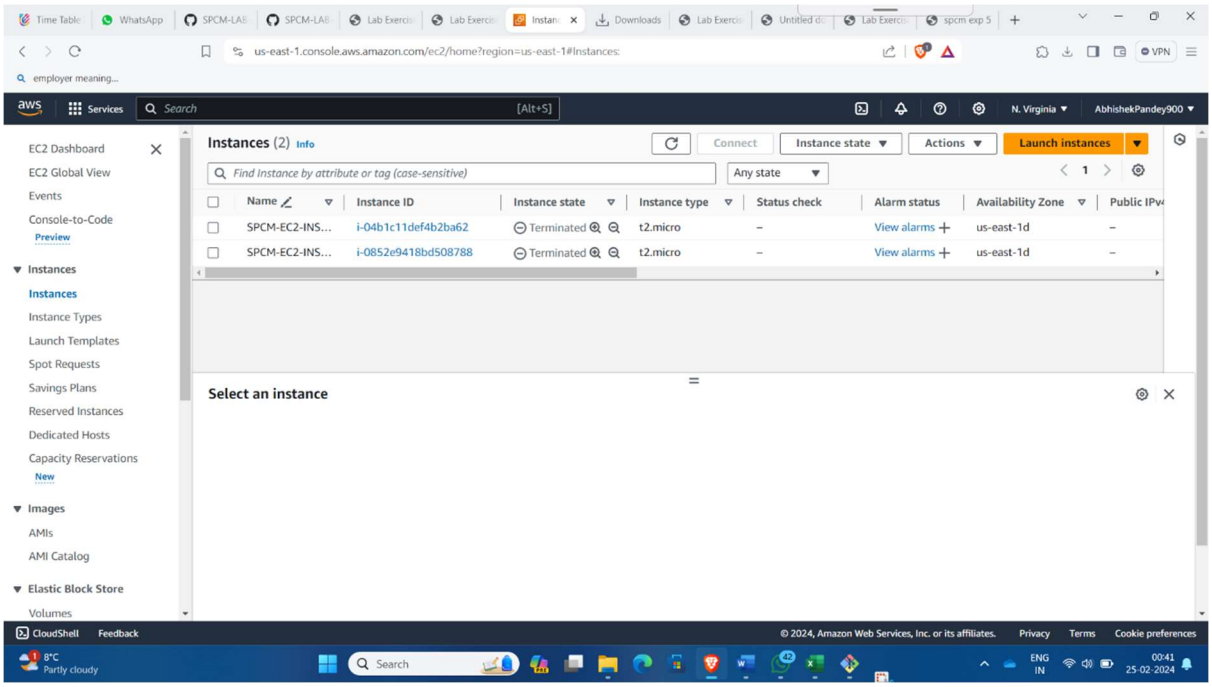
```
AbhishekPandey@Groot9798 MINGW64 ~/Documents/terraform/dir1/terraform-variables
$ terraform apply -var "region=us-east-1' -var "ami=ami-0c7217cdde317cfec" -var
"instance_type="t2.micro"

Terraform used the selected providers to generate the following execution plan. Resource actions are indicated with the following symbols:
  + create

Terraform will perform the following actions:

  # aws_instance.example will be created
  + resource "aws_instance" "example" {
      + ami                                  = "ami-0c7217cdde317cfec"
      + arn                                  = (known after apply)
      + associate_public_ip_address          = (known after apply)
      + availability_zone                    = (known after apply)
      + cpu_core_count                       = (known after apply)
      + cpu_threads_per_core                 = (known after apply)
      + disable_api_stop                     = (known after apply)
      + disable_api_termination              = (known after apply)
      + ebs_optimized                        = (known after apply)
      + get_password_data                    = false
      + host_id                              = (known after apply)
      + host_resource_group_arn              = (known after apply)
      + iam_instance_profile                 = (known after apply)
      + id                                   = (known after apply)
      + instance_initiated_shutdown_behavior = (known after apply)
      + instance_lifecycle                   = (known after apply)
      + instance_state                       = (known after apply)
      + instance_type                        = "t2.micro"
      + ipv6_address_count                   = (known after apply)
      + ipv6_addresses                       = (known after apply)
      + key_name                             = (known after apply)
      + monitoring                           = (known after apply)
      + outpost_arn                          = (known after apply)
      + password_data                        = (known after apply)
      + placement_group                      = (known after apply)
      + placement_partition_number           = (known after apply)
      + primary_network_interface_id         = (known after apply)
      + private_dns                          = (known after apply)
      + private_ip                           = (known after apply)
      + public_dns                           = (known after apply)
      + public_ip                            = (known after apply)
      + secondary_private_ips                = (known after apply)
      + security_groups                      = (known after apply)
      + source_dest_check                    = true
```




us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#Instances:
Services
Search
[Alt+S]
N. Virginia
AbhishekPandey900
EC2 Dashboard
EC2 Global View
Events
Console-to-Code
Preview
Instances
Instances
Instance Types
Launch Templates
Spot Requests
Savings Plans
Reserved Instances
Dedicated Hosts
Capacity Reservations
New
Images
AMIs
AMI Catalog
Elastic Block Store
Volumes
Instances (2) Info
Connect
Instance state
Actions
Launch instances
Find instance by attribute or tag (case-sensitive)
Any state
Name
Instance ID
Instance state
Instance type
Status check
Alarm status
Availability Zone
Public IPv
SPCM-EC2-INS...
i-04b1c11def4b2ba62
Terminated
t2.micro
–
View alarms
us-east-1d
SPCM-EC2-INS...
i-0852e9418bd508788
Running
t2.micro
Initializing
View alarms
us-east-1d
ec2-3-82-2
Select an instance
CloudShell
Feedback
© 2024, Amazon Web Services, Inc. or its affiliates.
Privacy
Terms
Cookie preferences
8°C
Partly cloudy
Search
ENG
IN
00:39
25-02-2024


MINGW64:/c/Users/abhis/Documents/terraform/dir1/terraform-variables
AbhishekPandey@Groot9798 MINGW64 ~/Documents/terraform/dir1/terraform-variables
$ vi main.tf
AbhishekPandey@Groot9798 MINGW64 ~/Documents/terraform/dir1/terraform-variables
$ terraform destroy
aws_instance.example: Refreshing state... [id=i-0852e9418bd508788]
Terraform used the selected providers to generate the following execution plan. Resource actions are indicated with the following symbols:
- destroy
Terraform will perform the following actions:
# aws_instance.example will be destroyed
- resource "aws_instance" "example" {
- ami = "ami-0c7217cdde317cfec" -> null
- arn = "arn:aws:ec2:us-east-1:654654208598:instance/i-0852e9418bd508788" -> null
- associate_public_ip_address = true -> null
- availability_zone = "us-east-1d" -> null
- cpu_core_count = 1 -> null
- cpu_threads_per_core = 1 -> null
- disable_api_stop = false -> null
- disable_api_termination = false -> null
- ebs_optimized = false -> null
- get_password_data = false -> null
- hibernation = false -> null
- id = "i-0852e9418bd508788" -> null
- instance_initiated_shutdown_behavior = "stop" -> null
- instance_state = "running" -> null
- instance_type = "t2.micro" -> null
- ipv6_address_count = 0 -> null
- ipv6_addresses = [] -> null
- monitoring = false -> null
- placement_partition_number = 0 -> null
- primary_network_interface_id = "eni-00449d4418d1cce26" -> null
- private_dns = "ip-172-31-85-72.ec2.internal" -> null
- private_ip = "172.31.85.72" -> null
- public_dns = "ec2-3-82-241-240.compute-1.amazonaws.com" -> null
- public_ip = "3.82.241.240" -> null
- secondary_private_ips = [] -> null
- security_groups = [
"default",
] -> null
- source_dest_check = true -> null
- subnet_id = "subnet-08512513cdbca48db" -> null
- tags = {
"Name" = "SPCM-EC2-INSTANCE"
} -> null
- tags_all = {
"Name" = "SPCM-EC2-INSTANCE"
} -> null
- tenancy = "default" -> null
- user_data_replace_on_change = false -> null
- vpc_security_group_ids = [
"sg-07971ab5b528bc492",
] -> null
- capacity_reservation_specification {
- capacity_reservation_preference = "open" -> null
8°C
Partly cloudy
Search
ENG
IN
00:40
25-02-2024


MINGW64:/c/Users/abhis/Documents/terraform/dir1/terraform-variables
- credit_specification {
- cpu_credits = "standard" -> null
}
- enclave_options {
- enabled = false -> null
}
- maintenance_options {
- auto_recovery = "default" -> null
}
- metadata_options {
- http_endpoint = "enabled" -> null
- http_protocol_ipv6 = "disabled" -> null
- http_put_response_hop_limit = 1 -> null
- http_tokens = "optional" -> null
- instance_metadata_tags = "disabled" -> null
}
- private_dns_name_options {
- enable_resource_name_dns_a_record = false -> null
- enable_resource_name_dns_aaaa_record = false -> null
- hostname_type = "ip-name" -> null
}
- root_block_device {
- delete_on_termination = true -> null
- device_name = "/dev/sda1" -> null
- encrypted = false -> null
- iops = 100 -> null
- tags = {} -> null
- throughput = 0 -> null
- volume_id = "vol-0ea93ad2844ccd9cf" -> null
- volume_size = 8 -> null
- volume_type = "gp2" -> null
}
}
Plan: 0 to add, 0 to change, 1 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.example: Destroying... [id=i-0852e9418bd508788]
aws_instance.example: Still destroying... [id=i-0852e9418bd508788, 10s elapsed]
aws_instance.example: Still destroying... [id=i-0852e9418bd508788, 20s elapsed]
aws_instance.example: Still destroying... [id=i-0852e9418bd508788, 30s elapsed]
aws_instance.example: Destruction complete after 33s
Destroy complete! Resources: 1 destroyed.
AbhishekPandey@Groot9798 MINGW64 ~/Documents/terraform/dir1/terraform-variables
$
8°C
Partly cloudy
Search
ENG
IN
00:40
25-02-2024


us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#Instances:
aws
Services
Search
[Alt+S]
N. Virginia
AbhishekPandey900
EC2 Dashboard
EC2 Global View
Events
Console-to-Code
Preview
Instances
Instances
Instance Types
Launch Templates
Spot Requests
Savings Plans
Reserved Instances
Dedicated Hosts
Capacity Reservations
New
Images
AMIs
AMI Catalog
Elastic Block Store
Volumes
Instances (2) Info
Connect
Instance state
Actions
Launch instances
Find Instance by attribute or tag (case-sensitive)
Any state
Name
Instance ID
Instance state
Instance type
Status check
Alarm status
Availability Zone
Public IPv4
SPCM-EC2-INS...
i-04b1c11def4b2ba62
Terminated
t2.micro
View alarms
us-east-1d
SPCM-EC2-INS...
i-0852e9418bd508788
Terminated
t2.micro
View alarms
us-east-1d
Select an instance
CloudShell
Feedback
© 2024, Amazon Web Services, Inc. or its affiliates.
Privacy
Terms
Cookie preferences
8°C
Partly cloudy
Search
ENG
IN
00:41
25-02-2024

EXPERIMENT-6

```hcl
resource "aws_instance" "example" {
    ami = var.ami
instance_type = var.instance_type
}

terraform {
required_providers {
aws = {
source = "hashicorp/aws"
version = "5.31.0"
}
}
}

provider "aws" {
    region = "ap-south-1"
    access_key = "AKIA5FTY77WSIB44R75Q"
    secret_key = "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"
}

```

Terraform-multiple-tfvars > variables.tf > variable "region" > default

```hcl
variable "region" {
    description = "AWS region"
    default = "ap-south-1"
    }


variable "ami" {
     description = "AMI ID"
type = string
default = "ami-03f4878755434977f"
}

variable "instance_type" {
     description = "EC2 Instance Type"
      default   = "t2.micro"
}
```

Terraform-multiple-tfvars > dev.tfvars > region

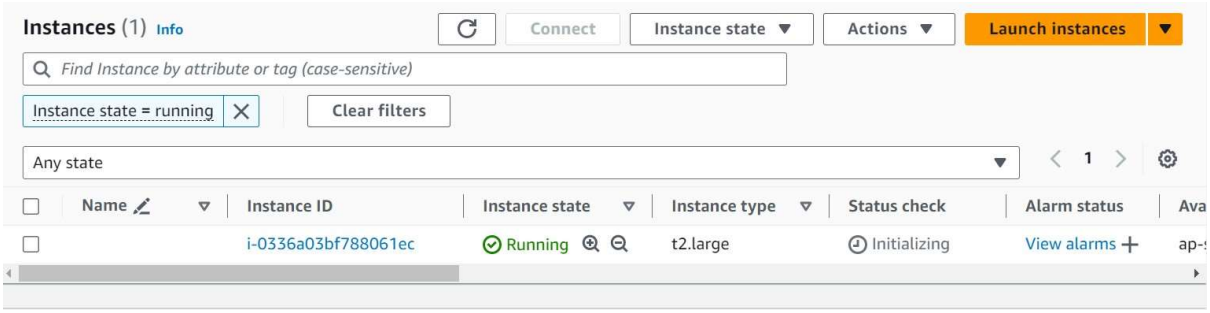
```hcl
region = "ap-south-1"
ami = "ami-0d63de463e6604d0a"
instance_type = "t2.micro"
```

Terraform-multiple-tfvars > ops.tfvars > region

```
region = "ap-south-1"
ami = "ami-03f4878755434977f"
instance_type = "t2.large"
```

```
C:\Desktop\DevOps\Sem6\SMCP\Lab Files\TERRAFORM LAB SCRIPTS\Terraform-multiple-tfvars> terraform apply -var-file=dev.tfvars

Terraform used the selected providers to generate the following execution plan. Resource actions are indicated with the
following symbols:
  + create

Terraform will perform the following actions:

  # aws_instance.example will be created
  + resource "aws_instance" "example" {
      + ami                                  = "ami-0d63de463e6604d0a"
      + arn                                  = (known after apply)
      + associate_public_ip_address          = (known after apply)
      + availability_zone                    = (known after apply)
      + cpu_core_count                       = (known after apply)
      + cpu_threads_per_core                 = (known after apply)
      + disable_api_stop                     = (known after apply)
      + disable_api_termination              = (known after apply)
      + ebs_optimized                        = (known after apply)
      + get_password_data                    = false
      + host_id                              = (known after apply)
      + host_resource_group_arn              = (known after apply)
      + iam_instance_profile                 = (known after apply)
      + id                                   = (known after apply)
```

```
C:\Desktop\DevOps\Sem6\SMCP\Lab Files\TERRAFORM LAB SCRIPTS\Terraform-multiple-tfvars> terraform apply -var-file=ops.tfvars
aws_instance.example: Refreshing state... [id=i-03753a6e6fb28a490]

Terraform used the selected providers to generate the following execution plan. Resource actions are indicated with the
following symbols:
-/+ destroy and then create replacement

Terraform will perform the following actions:

  # aws_instance.example must be replaced
-/+ resource "aws_instance" "example" {
      ~ ami                                  = "ami-0d63de463e6604d0a" -> "ami-03f4878755434977f" # forces replacement
      ~ arn                                  = "arn:aws:ec2:ap-south-1:905418112420:instance/i-03753a6e6fb28a490" -> (known after apply)
      ~ associate_public_ip_address          = true -> (known after apply)
      ~ availability_zone                    = "ap-south-1b" -> (known after apply)
      ~ cpu_core_count                       = 1 -> (known after apply)
      ~ cpu_threads_per_core                 = 1 -> (known after apply)
      ~ disable_api_stop                     = false -> (known after apply)
      ~ disable_api_termination              = false -> (known after apply)
      ~ ebs_optimized                        = false -> (known after apply)
      - hibernation                          = false -> null
      + host_id                              = (known after apply)
      + host_resource_group_arn              = (known after apply)
      + iam_instance_profile                 = (known after apply)
      ~ id                                   = "i-03753a6e6fb28a490" -> (known after apply)
      ~ instance_initiated_shutdown_behavior = "stop" -> (known after apply)
      + instance_lifecycle                   = (known after apply)
```



```
C:\Desktop\DevOps\Sem6\SMCP\Lab Files\TERRAFORM LAB SCRIPTS\Terraform-multiple-tfvars> terraform destroy -var-file=ops.tfvars
aws_instance.example: Refreshing state... [id=i-0336a03bf788061ec]

Terraform used the selected providers to generate the following execution plan. Resource actions are indicated with the following symbols:
  - destroy

Terraform will perform the following actions:

  # aws_instance.example will be destroyed
  - resource "aws_instance" "example" {
      - ami                                  = "ami-03f4878755434977f" -> null
      - arn                                  = "arn:aws:ec2:ap-south-1:905418112420:instance/i-0336a03bf788061ec" -> null
      - associate_public_ip_address          = true -> null
      - availability_zone                    = "ap-south-1b" -> null
      - cpu_core_count                       = 2 -> null
      - cpu_threads_per_core                 = 1 -> null
      - disable_api_stop                     = false -> null
      - disable_api_termination              = false -> null
      - ebs_optimized                        = false -> null
      - get_password_data                    = false -> null
      - hibernation                          = false -> null
      - id                                   = "i-0336a03bf788061ec" -> null
```

EXPERIMENT-7

main.tf var.tf

Terraform-iam-users > main.tf > resource "aws_iam_user" "iam_users"

```
terraform {
required_providers {
aws = {
source = "hashicorp/aws"
version = "5.31.0"
}
}
}

provider "aws" {
    region = "us-west-2"
    access_key = "AKIA5FTY77WSIB44R75Q"
    secret_key = "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"
}

resource "aws_iam_user" "iam_users" {
    count = length(var.iam_users)
name = var.iam_users[count.index]


tags = {
Name = "${var.iam_users[count.index]}-user"
}
}

```

main.tf | var.tf

Terraform-iam-users > var.tf > variable "iam_users" > type

```
variable "iam_users" {
    type    = list(string)
default = ["user3", "user4", "user5"]
}

```

```
PS C:\Desktop\DevOps\Sem6\SMCP\Lab Files\TERRAFORM LAB SCRIPTS\Terraform-iam-users> terraform init

Initializing the backend...
Initializing provider plugins...
- Finding hashicorp/aws versions matching "5.31.0"...
- Installing hashicorp/aws v5.31.0...
- Installed hashicorp/aws v5.31.0 (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!
```

```
PS C:\Desktop\DevOps\Sem6\SMCP\Lab Files\TERRAFORM LAB SCRIPTS\Terraform-iam-users> terraform apply

Terraform used the selected providers to generate the following execution plan. Resource actions are
  + create

Terraform will perform the following actions:

  # aws_iam_user.iam_users[0] will be created
  + resource "aws_iam_user" "iam_users" {
      + arn           = (known after apply)
      + force_destroy = false
      + id            = (known after apply)
      + name          = "user3"
      + path          = "/"
      + tags          = {
```

IAM > Users

Users (5) Info

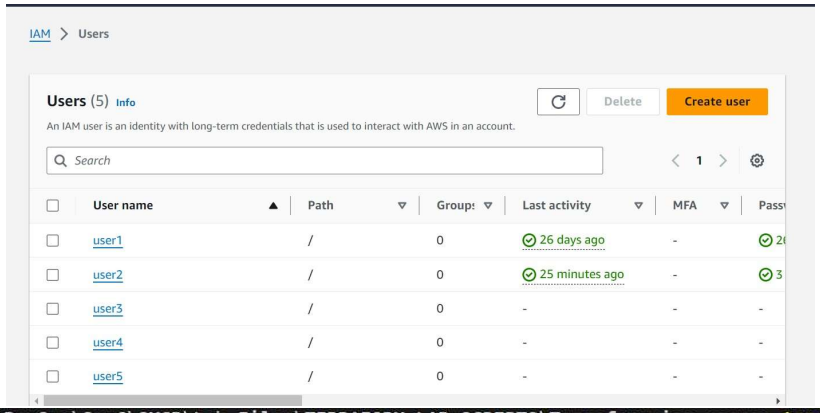
An IAM user is an identity with long-term credentials that is used to interact with AWS in an account.

Delete | Create user

Search

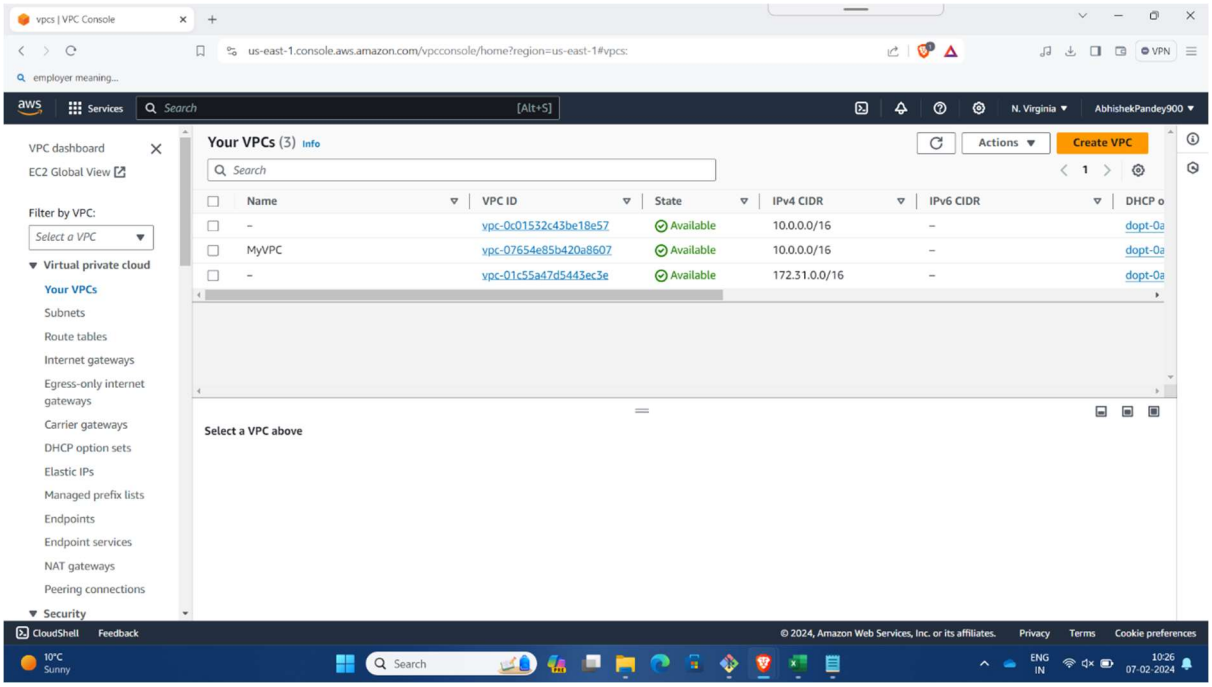
1

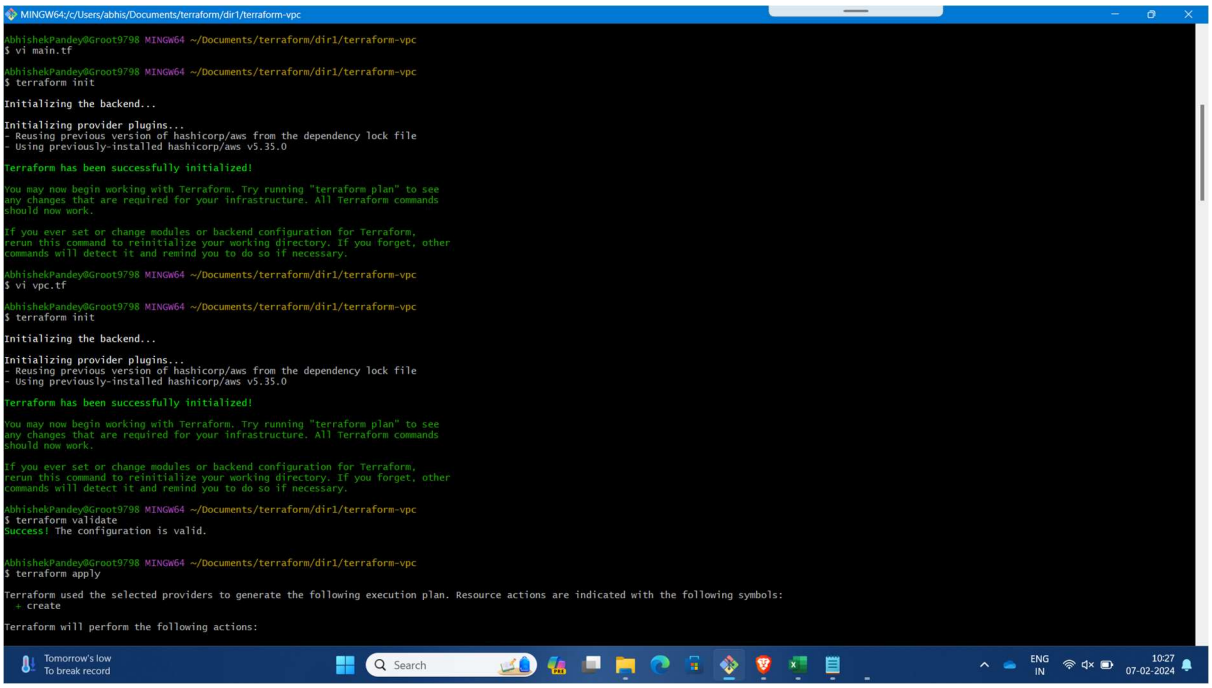
User name	Path	Groups	Last activity	MFA	Passw
user1	/	0	26 days ago	-	2(
user2	/	0	25 minutes ago	-	3
user3	/	0	-	-	-
user4	/	0	-	-	-
user5	/	0	-	-	-

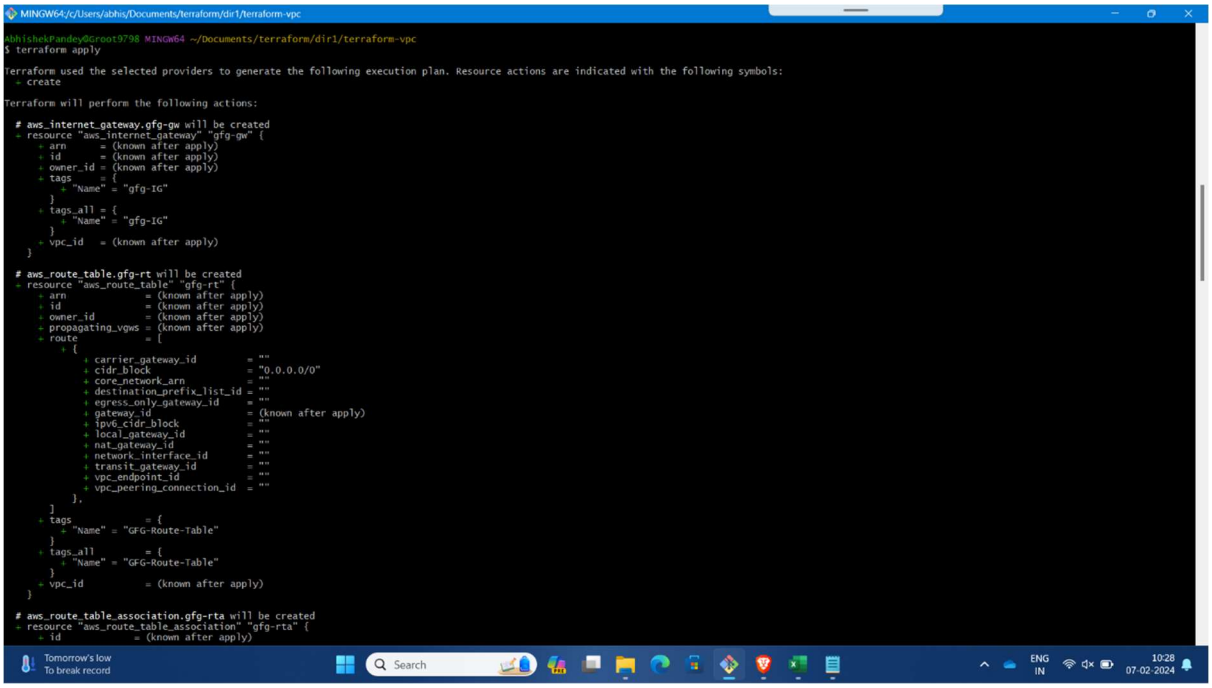


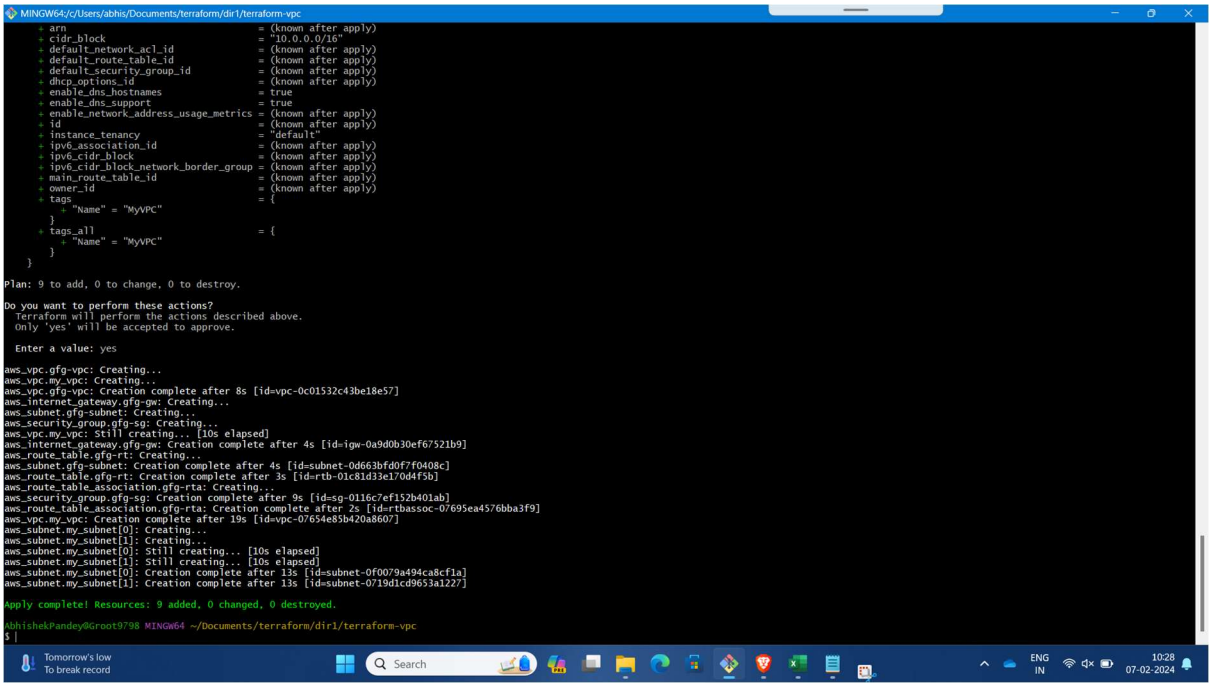

```
PS C:\Desktop\DevOps\Sem6\SMCP\Lab Files\TERRAFORM LAB SCRIPTS\Terraform-iam-users> terraform destroy
aws_iam_user.iam_users[2]: Refreshing state... [id=user5]
aws_iam_user.iam_users[1]: Refreshing state... [id=user4]
aws_iam_user.iam_users[0]: Refreshing state... [id=user3]

Terraform used the selected providers to generate the following execution plan. Resource actions are i
  - destroy

Terraform will perform the following actions:

  # aws_iam_user.iam_users[0] will be destroyed
  - resource "aws_iam_user" "iam_users" {
      - arn           = "arn:aws:iam::905418112420:user/user3" -> null
      - force_destroy = false -> null
      - id            = "user3" -> null
      - name          = "user3" -> null
      - path          = "/" -> null
```

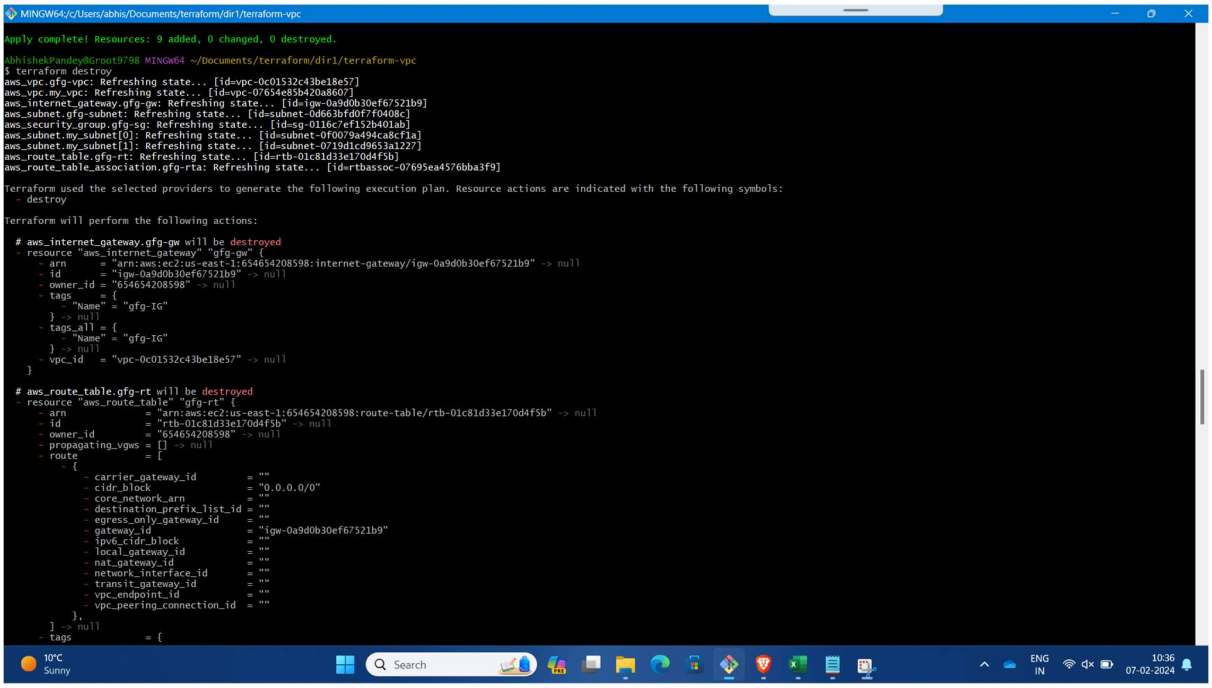
EXPERIMENT-8

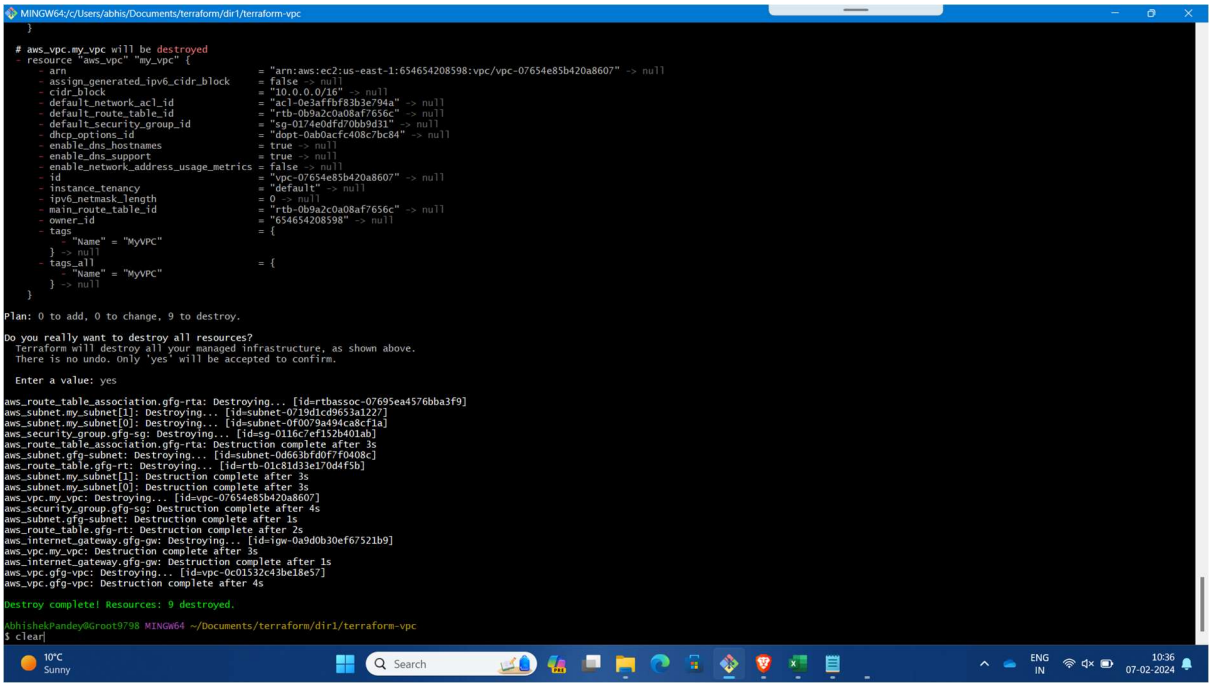




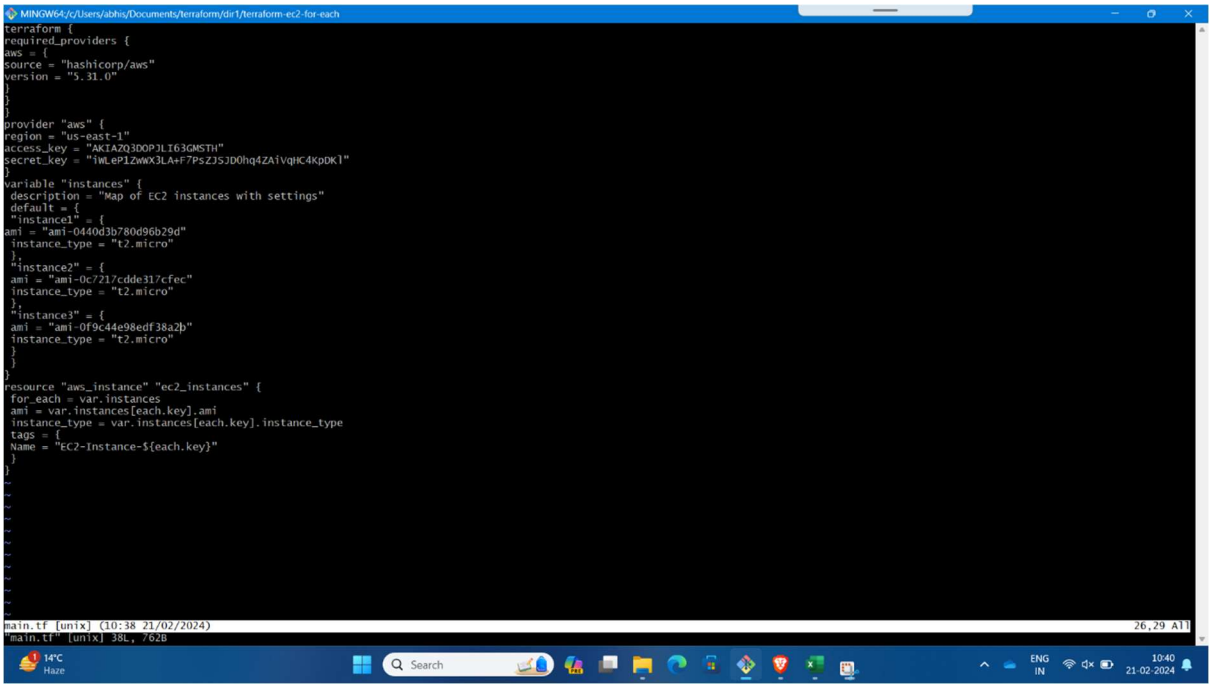

MINGW64:/c/Users/abhis/Documents/terraform/dir1/terraform-vpc
AbhishekPandey@Groot9798 MINGW64 ~/Documents/terraform/dir1/terraform-vpc
$ terraform apply
Terraform used the selected providers to generate the following execution plan. Resource actions are indicated with the following symbols:
+ create
Terraform will perform the following actions:
# aws_internet_gateway.gfg-gw will be created
+ resource "aws_internet_gateway" "gfg-gw" {
+ arn = (known after apply)
+ id = (known after apply)
+ owner_id = (known after apply)
+ tags = {
+ "Name" = "gfg-IG"
}
+ tags_all = {
+ "Name" = "gfg-IG"
}
+ vpc_id = (known after apply)
}
# aws_route_table.gfg-rt will be created
+ resource "aws_route_table" "gfg-rt" {
+ arn = (known after apply)
+ id = (known after apply)
+ owner_id = (known after apply)
+ propagating_vgws = (known after apply)
+ route = [
+ {
+ carrier_gateway_id = ""
+ cidr_block = "0.0.0.0/0"
+ core_network_arn = ""
+ destination_prefix_list_id = ""
+ egress_only_gateway_id = ""
+ gateway_id = (known after apply)
+ ipv6_cidr_block = ""
+ local_gateway_id = ""
+ nat_gateway_id = ""
+ network_interface_id = ""
+ transit_gateway_id = ""
+ vpc_endpoint_id = ""
+ vpc_peering_connection_id = ""
},
]
+ tags = {
+ "Name" = "GFG-Route-Table"
}
+ tags_all = {
+ "Name" = "GFG-Route-Table"
}
+ vpc_id = (known after apply)
}
# aws_route_table_association.gfg-rta will be created
+ resource "aws_route_table_association" "gfg-rta" {
+ id = (known after apply)
Tomorrow's low
To break record
Search
ENG
IN
10:28
07-02-2024


MINGW64:/c/Users/abhis/Documents/terraform/dir1/terraform-vpc
+ arn = (known after apply)
+ cidr_block = "10.0.0.0/16"
+ default_network_acl_id = (known after apply)
+ default_route_table_id = (known after apply)
+ default_security_group_id = (known after apply)
+ dhcp_options_id = (known after apply)
+ enable_dns_hostnames = true
+ enable_dns_support = true
+ enable_network_address_usage_metrics = (known after apply)
+ id = (known after apply)
+ instance_tenancy = "default"
+ ipv6_association_id = (known after apply)
+ ipv6_cidr_block = (known after apply)
+ ipv6_cidr_block_network_border_group = (known after apply)
+ main_route_table_id = (known after apply)
+ owner_id = (known after apply)
+ tags = {
+ "Name" = "MyVPC"
}
+ tags_all = {
+ "Name" = "MyVPC"
}
}
Plan: 9 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_vpc.gfg-vpc: Creating...
aws_vpc.my_vpc: Creating...
aws_vpc.gfg-vpc: Creation complete after 8s [id=vpc-0c01532c43be18e57]
aws_internet_gateway.gfg-gw: Creating...
aws_subnet.gfg-subnet: Creating...
aws_security_group.gfg-sg: Creating...
aws_vpc.my_vpc: Still creating... [10s elapsed]
aws_internet_gateway.gfg-gw: Creation complete after 4s [id=igw-0a9d0b30ef67521b9]
aws_route_table.gfg-rt: Creating...
aws_subnet.gfg-subnet: Creation complete after 4s [id=subnet-0d663bfd0f7f0408c]
aws_route_table.gfg-rt: Creation complete after 3s [id=rtb-01c81d33e170d4f5b]
aws_route_table_association.gfg-rta: Creating...
aws_security_group.gfg-sg: Creation complete after 9s [id=sg-0116c7ef152b401ab]
aws_route_table_association.gfg-rta: Creation complete after 2s [id=rtbassoc-07695ea4576bba3f9]
aws_vpc.my_vpc: Creation complete after 19s [id=vpc-07654e85b420a8607]
aws_subnet.my_subnet[0]: Creating...
aws_subnet.my_subnet[1]: Creating...
aws_subnet.my_subnet[0]: Still creating... [10s elapsed]
aws_subnet.my_subnet[1]: Still creating... [10s elapsed]
aws_subnet.my_subnet[0]: Creation complete after 13s [id=subnet-0f0079a494ca8cf1a]
aws_subnet.my_subnet[1]: Creation complete after 13s [id=subnet-0719d1cd9653a1227]
Apply complete! Resources: 9 added, 0 changed, 0 destroyed.
AbhishekPandey@Groot9798 MINGW64 ~/Documents/terraform/dir1/terraform-vpc
$
Tomorrow's low
To break record
Search
ENG
IN
10:28
07-02-2024

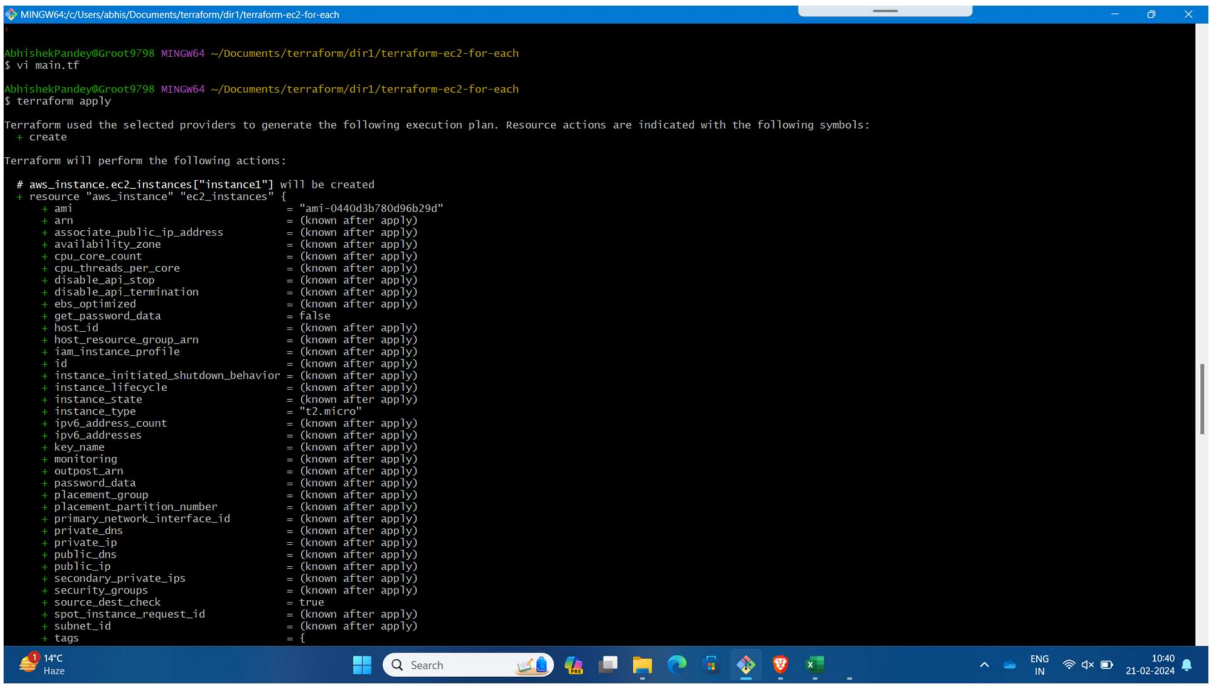

MINGW64:/c/Users/abhis/Documents/terraform/dir1/terraform-vpc
Apply complete! Resources: 9 added, 0 changed, 0 destroyed.
abhishekPandey@Groot9798 MINGW64 ~/Documents/terraform/dir1/terraform-vpc
$ terraform destroy
aws_vpc.gfg-vpc: Refreshing state... [id=vpc-0c01532c43be18e57]
aws_vpc.my_vpc: Refreshing state... [id=vpc-07654e85b420a8607]
aws_internet_gateway.gfg-gw: Refreshing state... [id=igw-0a9d0b30ef67521b9]
aws_subnet.gfg-subnet: Refreshing state... [id=subnet-0d663bfd0f7f0408c]
aws_security_group.gfg-sg: Refreshing state... [id=sg-0116c7ef152b401ab]
aws_subnet.my_subnet[0]: Refreshing state... [id=subnet-0f0079a494ca8cf1a]
aws_subnet.my_subnet[1]: Refreshing state... [id=subnet-0719d1cd9653a1227]
aws_route_table.gfg-rt: Refreshing state... [id=rtb-01c81d33e170d4f5b]
aws_route_table_association.gfg-rta: Refreshing state... [id=rtbassoc-07695ea4576bba3f9]
Terraform used the selected providers to generate the following execution plan. Resource actions are indicated with the following symbols:
- destroy
Terraform will perform the following actions:
# aws_internet_gateway.gfg-gw will be destroyed
- resource "aws_internet_gateway" "gfg-gw" {
- arn = "arn:aws:ec2:us-east-1:654654208598:internet-gateway/igw-0a9d0b30ef67521b9" -> null
- id = "igw-0a9d0b30ef67521b9" -> null
- owner_id = "654654208598" -> null
- tags = {
- "Name" = "gfg-IG"
} -> null
- tags_all = {
- "Name" = "gfg-IG"
} -> null
- vpc_id = "vpc-0c01532c43be18e57" -> null
}
# aws_route_table.gfg-rt will be destroyed
- resource "aws_route_table" "gfg-rt" {
- arn = "arn:aws:ec2:us-east-1:654654208598:route-table/rtb-01c81d33e170d4f5b" -> null
- id = "rtb-01c81d33e170d4f5b" -> null
- owner_id = "654654208598" -> null
- propagating_vgws = [] -> null
- route = [
{
- carrier_gateway_id = ""
- cidr_block = "0.0.0.0/0"
- core_network_arn = ""
- destination_prefix_list_id = ""
- egress_only_gateway_id = ""
- gateway_id = "igw-0a9d0b30ef67521b9"
- ipv6_cidr_block = ""
- local_gateway_id = ""
- nat_gateway_id = ""
- network_interface_id = ""
- transit_gateway_id = ""
- vpc_endpoint_id = ""
- vpc_peering_connection_id = ""
},
] -> null
- tags = {
10°C
Sunny
Search
ENG
IN
10:36
07-02-2024


MINGW64:/c/Users/abhis/Documents/terraform/dir1/terraform-vpc
}
# aws_vpc.my_vpc will be destroyed
- resource "aws_vpc" "my_vpc" {
- arn = "arn:aws:ec2:us-east-1:654654208598:vpc/vpc-07654e85b420a8607" -> null
- assign_generated_ipv6_cidr_block = false -> null
- cidr_block = "10.0.0.0/16" -> null
- default_network_acl_id = "acl-0e3affbf83b3e794a" -> null
- default_route_table_id = "rtb-0b9a2c0a08af7656c" -> null
- default_security_group_id = "sg-0174e0dfd70bb9d31" -> null
- dhcp_options_id = "dopt-0ab0acfc408c7bc84" -> null
- enable_dns_hostnames = true -> null
- enable_dns_support = true -> null
- enable_network_address_usage_metrics = false -> null
- id = "vpc-07654e85b420a8607" -> null
- instance_tenancy = "default" -> null
- ipv6_netmask_length = 0 -> null
- main_route_table_id = "rtb-0b9a2c0a08af7656c" -> null
- owner_id = "654654208598" -> null
- tags = {
- "Name" = "MyVPC"
} -> null
- tags_all = {
- "Name" = "MyVPC"
} -> null
}
Plan: 0 to add, 0 to change, 9 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_route_table_association.gfg-rta: Destroying... [id=rtbassoc-07695ea4576bba3f9]
aws_subnet.my_subnet[1]: Destroying... [id=subnet-0719d1cd9653a1227]
aws_subnet.my_subnet[0]: Destroying... [id=subnet-0f0079a494ca8cf1a]
aws_security_group.gfg-sg: Destroying... [id=sg-0116c7ef152b401ab]
aws_route_table_association.gfg-rta: Destruction complete after 3s
aws_subnet.gfg-subnet: Destroying... [id=subnet-0d663bfd0f7f0408c]
aws_route_table.gfg-rt: Destroying... [id=rtb-01c81d33e170d4f5b]
aws_subnet.my_subnet[1]: Destruction complete after 3s
aws_subnet.my_subnet[0]: Destruction complete after 3s
aws_vpc.my_vpc: Destroying... [id=vpc-07654e85b420a8607]
aws_security_group.gfg-sg: Destruction complete after 4s
aws_subnet.gfg-subnet: Destruction complete after 1s
aws_route_table.gfg-rt: Destruction complete after 2s
aws_internet_gateway.gfg-gw: Destroying... [id=igw-0a9d0b30ef67521b9]
aws_vpc.my_vpc: Destruction complete after 3s
aws_internet_gateway.gfg-gw: Destruction complete after 1s
aws_vpc.gfg-vpc: Destroying... [id=vpc-0c01532c43be18e57]
aws_vpc.gfg-vpc: Destruction complete after 4s
Destroy complete! Resources: 9 destroyed.
abhishekPandey@Groot9798 MINGW64 ~/Documents/terraform/dir1/terraform-vpc
$ clear
10°C
Sunny
Search
ENG
IN
10:36
07-02-2024

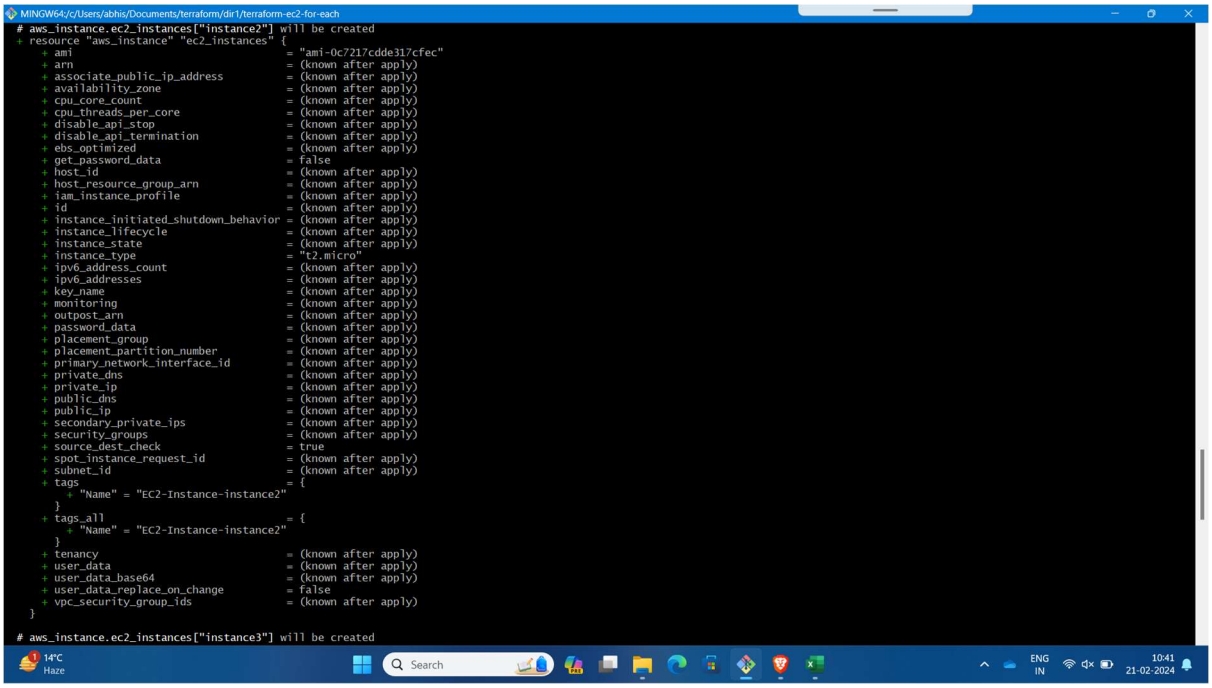
EXPERIMENT-9

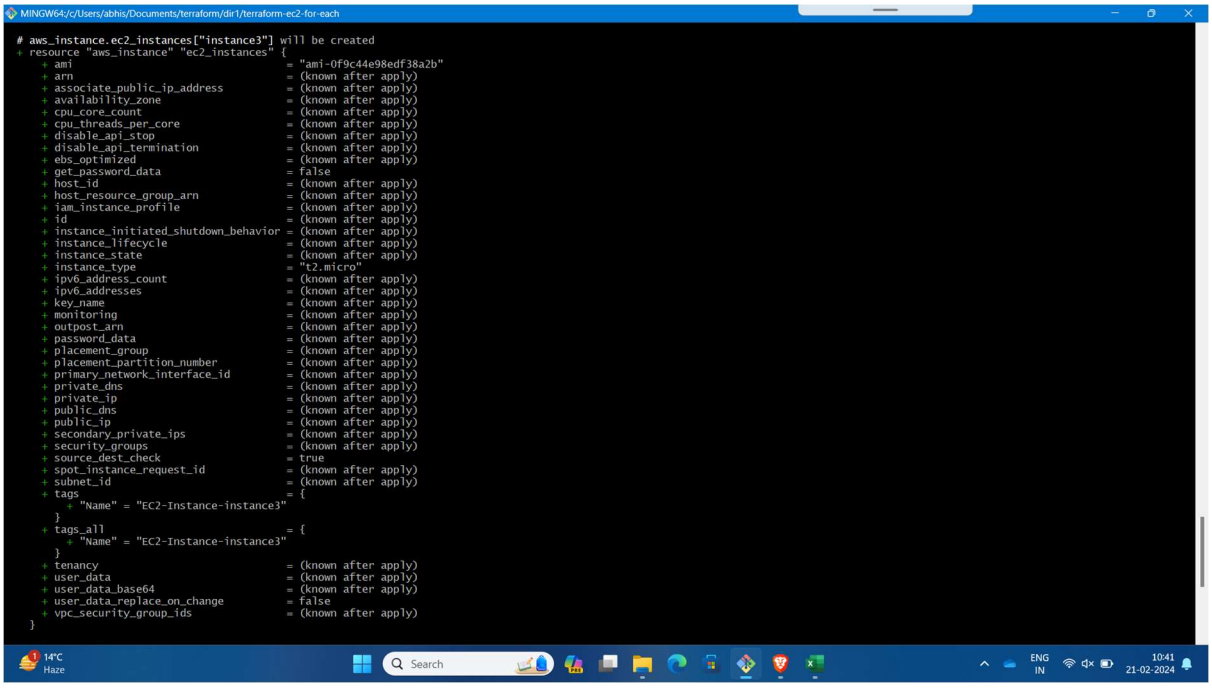


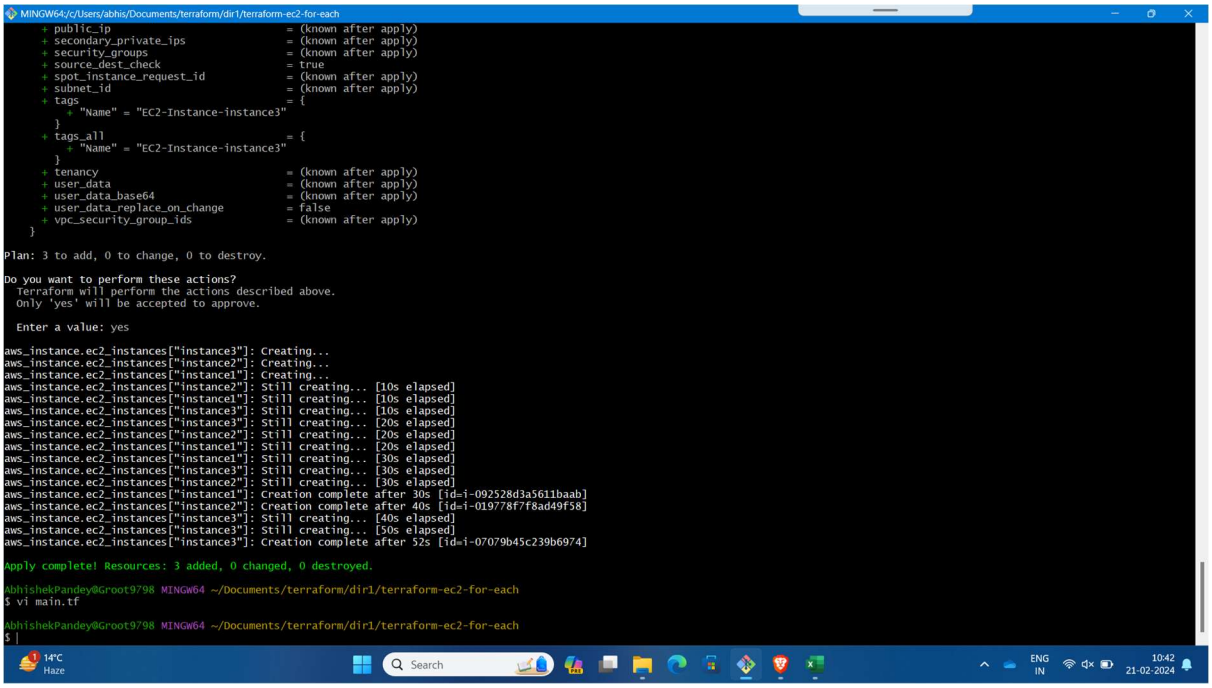
```
terraform {
required_providers {
aws = {
source = "hashicorp/aws"
version = "5.31.0"
}
}
}
provider "aws" {
region = "us-east-1"
access_key = "AKIA2Q3DOPJLI63GMSTH"
secret_key = "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"
}
variable "instances" {
 description = "Map of EC2 instances with settings"
 default = {
 "instance1" = {
ami = "ami-0440d3b780d96b29d"
 instance_type = "t2.micro"
 },
 "instance2" = {
 ami = "ami-0c7217cdde317cfec"
 instance_type = "t2.micro"
 },
 "instance3" = {
 ami = "ami-0f9c44e98edf38a2b"
 instance_type = "t2.micro"
 }
 }
}
resource "aws_instance" "ec2_instances" {
 for_each = var.instances
 ami = var.instances[each.key].ami
 instance_type = var.instances[each.key].instance_type
 tags = {
 Name = "EC2-Instance-${each.key}"
 }
}
~
~
~
~
~
~
~
~
~
~
~
~
~
main.tf [unix] (10:38 21/02/2024)                                    26,29 All
"main.tf" [unix] 38L, 762B
```

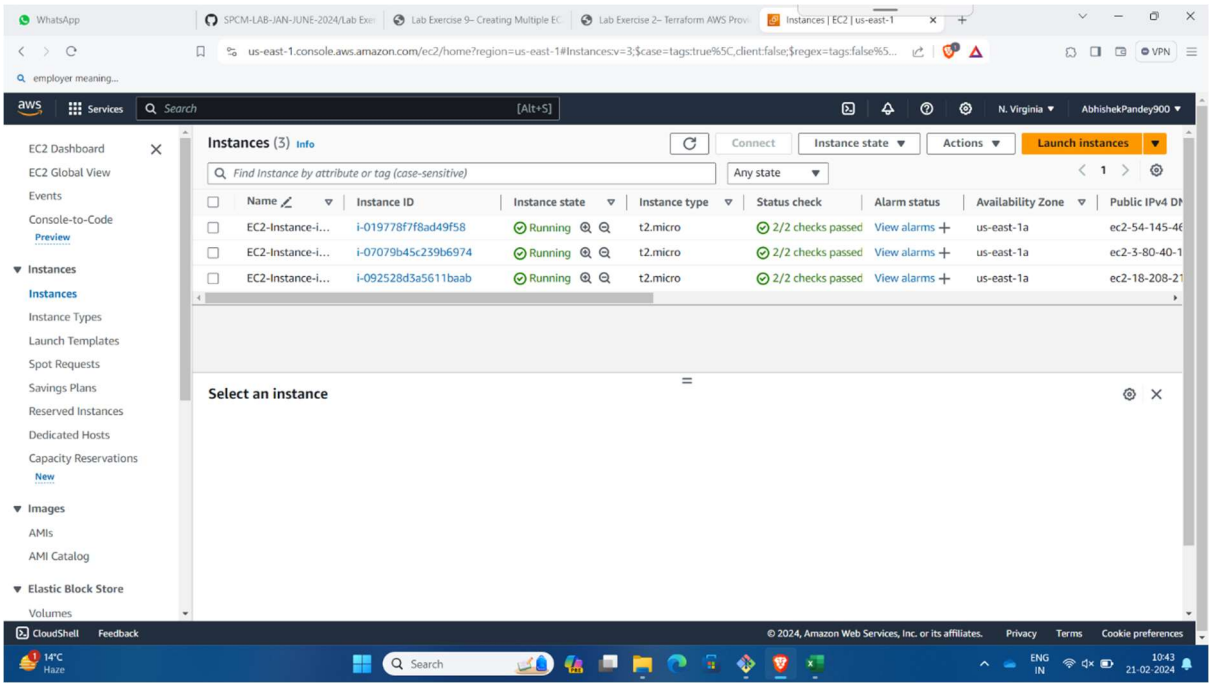


```
AbhishekPandey@Groot9798 MINGW64 ~/Documents/terraform/dir1/terraform-ec2-for-each
$ vi main.tf

AbhishekPandey@Groot9798 MINGW64 ~/Documents/terraform/dir1/terraform-ec2-for-each
$ terraform apply

Terraform used the selected providers to generate the following execution plan. Resource actions are indicated with the following symbols:
  + create

Terraform will perform the following actions:

  # aws_instance.ec2_instances["instance1"] will be created
  + resource "aws_instance" "ec2_instances" {
      + ami                                  = "ami-0440d3b780d96b29d"
      + arn                                  = (known after apply)
      + associate_public_ip_address          = (known after apply)
      + availability_zone                    = (known after apply)
      + cpu_core_count                       = (known after apply)
      + cpu_threads_per_core                 = (known after apply)
      + disable_api_stop                     = (known after apply)
      + disable_api_termination              = (known after apply)
      + ebs_optimized                        = (known after apply)
      + get_password_data                    = false
      + host_id                              = (known after apply)
      + host_resource_group_arn              = (known after apply)
      + iam_instance_profile                 = (known after apply)
      + id                                   = (known after apply)
      + instance_initiated_shutdown_behavior = (known after apply)
      + instance_lifecycle                   = (known after apply)
      + instance_state                       = (known after apply)
      + instance_type                        = "t2.micro"
      + ipv6_address_count                   = (known after apply)
      + ipv6_addresses                       = (known after apply)
      + key_name                             = (known after apply)
      + monitoring                           = (known after apply)
      + outpost_arn                          = (known after apply)
      + password_data                        = (known after apply)
      + placement_group                      = (known after apply)
      + placement_partition_number           = (known after apply)
      + primary_network_interface_id         = (known after apply)
      + private_dns                          = (known after apply)
      + private_ip                           = (known after apply)
      + public_dns                           = (known after apply)
      + public_ip                            = (known after apply)
      + secondary_private_ips                = (known after apply)
      + security_groups                      = (known after apply)
      + source_dest_check                    = true
      + spot_instance_request_id             = (known after apply)
      + subnet_id                            = (known after apply)
      + tags                                 = {
```


MINGW64:/c/Users/abhis/Documents/terraform/dir1/terraform-ec2-for-each
# aws_instance.ec2_instances["instance2"] will be created
+ resource "aws_instance" "ec2_instances" {
+ ami = "ami-0c7217cdde317cfec"
+ arn = (known after apply)
+ associate_public_ip_address = (known after apply)
+ availability_zone = (known after apply)
+ cpu_core_count = (known after apply)
+ cpu_threads_per_core = (known after apply)
+ disable_api_stop = (known after apply)
+ disable_api_termination = (known after apply)
+ ebs_optimized = (known after apply)
+ get_password_data = false
+ host_id = (known after apply)
+ host_resource_group_arn = (known after apply)
+ iam_instance_profile = (known after apply)
+ id = (known after apply)
+ instance_initiated_shutdown_behavior = (known after apply)
+ instance_lifecycle = (known after apply)
+ instance_state = (known after apply)
+ instance_type = "t2.micro"
+ ipv6_address_count = (known after apply)
+ ipv6_addresses = (known after apply)
+ key_name = (known after apply)
+ monitoring = (known after apply)
+ outpost_arn = (known after apply)
+ password_data = (known after apply)
+ placement_group = (known after apply)
+ placement_partition_number = (known after apply)
+ primary_network_interface_id = (known after apply)
+ private_dns = (known after apply)
+ private_ip = (known after apply)
+ public_dns = (known after apply)
+ public_ip = (known after apply)
+ secondary_private_ips = (known after apply)
+ security_groups = (known after apply)
+ source_dest_check = true
+ spot_instance_request_id = (known after apply)
+ subnet_id = (known after apply)
+ tags = {
+ "Name" = "EC2-Instance-instance2"
}
+ tags_all = {
+ "Name" = "EC2-Instance-instance2"
}
+ tenancy = (known after apply)
+ user_data = (known after apply)
+ user_data_base64 = (known after apply)
+ user_data_replace_on_change = false
+ vpc_security_group_ids = (known after apply)
}
# aws_instance.ec2_instances["instance3"] will be created
14°C
Haze
Search
ENG
IN
10:41
21-02-2024


MINGW64:/c/Users/abhis/Documents/terraform/dir1/terraform-ec2-for-each
# aws_instance.ec2_instances["instance3"] will be created
+ resource "aws_instance" "ec2_instances" {
+ ami = "ami-0f9c44e98edf38a2b"
+ arn = (known after apply)
+ associate_public_ip_address = (known after apply)
+ availability_zone = (known after apply)
+ cpu_core_count = (known after apply)
+ cpu_threads_per_core = (known after apply)
+ disable_api_stop = (known after apply)
+ disable_api_termination = (known after apply)
+ ebs_optimized = (known after apply)
+ get_password_data = false
+ host_id = (known after apply)
+ host_resource_group_arn = (known after apply)
+ iam_instance_profile = (known after apply)
+ id = (known after apply)
+ instance_initiated_shutdown_behavior = (known after apply)
+ instance_lifecycle = (known after apply)
+ instance_state = (known after apply)
+ instance_type = "t2.micro"
+ ipv6_address_count = (known after apply)
+ ipv6_addresses = (known after apply)
+ key_name = (known after apply)
+ monitoring = (known after apply)
+ outpost_arn = (known after apply)
+ password_data = (known after apply)
+ placement_group = (known after apply)
+ placement_partition_number = (known after apply)
+ primary_network_interface_id = (known after apply)
+ private_dns = (known after apply)
+ private_ip = (known after apply)
+ public_dns = (known after apply)
+ public_ip = (known after apply)
+ secondary_private_ips = (known after apply)
+ security_groups = (known after apply)
+ source_dest_check = true
+ spot_instance_request_id = (known after apply)
+ subnet_id = (known after apply)
+ tags = {
+ "Name" = "EC2-Instance-instance3"
}
+ tags_all = {
+ "Name" = "EC2-Instance-instance3"
}
+ tenancy = (known after apply)
+ user_data = (known after apply)
+ user_data_base64 = (known after apply)
+ user_data_replace_on_change = false
+ vpc_security_group_ids = (known after apply)
}
14°C
Haze
Search
ENG
IN
10:41
21-02-2024


MINGW64:/c/Users/abhis/Documents/terraform/dir1/terraform-ec2-for-each
+ public_ip = (known after apply)
+ secondary_private_ips = (known after apply)
+ security_groups = (known after apply)
+ source_dest_check = true
+ spot_instance_request_id = (known after apply)
+ subnet_id = (known after apply)
+ tags = {
+ "Name" = "EC2-Instance-instance3"
}
+ tags_all = {
+ "Name" = "EC2-Instance-instance3"
}
+ tenancy = (known after apply)
+ user_data = (known after apply)
+ user_data_base64 = (known after apply)
+ user_data_replace_on_change = false
+ vpc_security_group_ids = (known after apply)
}
Plan: 3 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_instances["instance3"]: Creating...
aws_instance.ec2_instances["instance2"]: Creating...
aws_instance.ec2_instances["instance1"]: Creating...
aws_instance.ec2_instances["instance2"]: Still creating... [10s elapsed]
aws_instance.ec2_instances["instance1"]: Still creating... [10s elapsed]
aws_instance.ec2_instances["instance3"]: Still creating... [10s elapsed]
aws_instance.ec2_instances["instance3"]: Still creating... [20s elapsed]
aws_instance.ec2_instances["instance2"]: Still creating... [20s elapsed]
aws_instance.ec2_instances["instance1"]: Still creating... [20s elapsed]
aws_instance.ec2_instances["instance1"]: Still creating... [30s elapsed]
aws_instance.ec2_instances["instance3"]: Still creating... [30s elapsed]
aws_instance.ec2_instances["instance2"]: Still creating... [30s elapsed]
aws_instance.ec2_instances["instance1"]: Creation complete after 30s [id=i-092528d3a5611baab]
aws_instance.ec2_instances["instance2"]: Creation complete after 40s [id=i-019778f7f8ad49f58]
aws_instance.ec2_instances["instance3"]: Still creating... [40s elapsed]
aws_instance.ec2_instances["instance3"]: Still creating... [50s elapsed]
aws_instance.ec2_instances["instance3"]: Creation complete after 52s [id=i-07079b45c239b6974]
Apply complete! Resources: 3 added, 0 changed, 0 destroyed.
AbhishekPandey@Groot9798 MINGW64 ~/Documents/terraform/dir1/terraform-ec2-for-each
$ vi main.tf
AbhishekPandey@Groot9798 MINGW64 ~/Documents/terraform/dir1/terraform-ec2-for-each
$
14°C Haze
Search
ENG IN
10:42 21-02-2024


us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#Instances:v=3;$case=tags:true%5C,client:false;$regex=tags:false%5...
aws
Services
Search
[Alt+S]
N. Virginia
AbhishekPandey900
EC2 Dashboard
EC2 Global View
Events
Console-to-Code
Preview
Instances
Instances
Instance Types
Launch Templates
Spot Requests
Savings Plans
Reserved Instances
Dedicated Hosts
Capacity Reservations
New
Images
AMIs
AMI Catalog
Elastic Block Store
Volumes
Instances (3) Info
Connect
Instance state
Actions
Launch instances
Find Instance by attribute or tag (case-sensitive)
Any state
Name
Instance ID
Instance state
Instance type
Status check
Alarm status
Availability Zone
Public IPv4 DN
EC2-Instance-i... i-019778f7f8ad49f58 Running t2.micro 2/2 checks passed View alarms us-east-1a ec2-54-145-46
EC2-Instance-i... i-07079b45c239b6974 Running t2.micro 2/2 checks passed View alarms us-east-1a ec2-3-80-40-1
EC2-Instance-i... i-092528d3a5611baab Running t2.micro 2/2 checks passed View alarms us-east-1a ec2-18-208-21
Select an instance
CloudShell
Feedback
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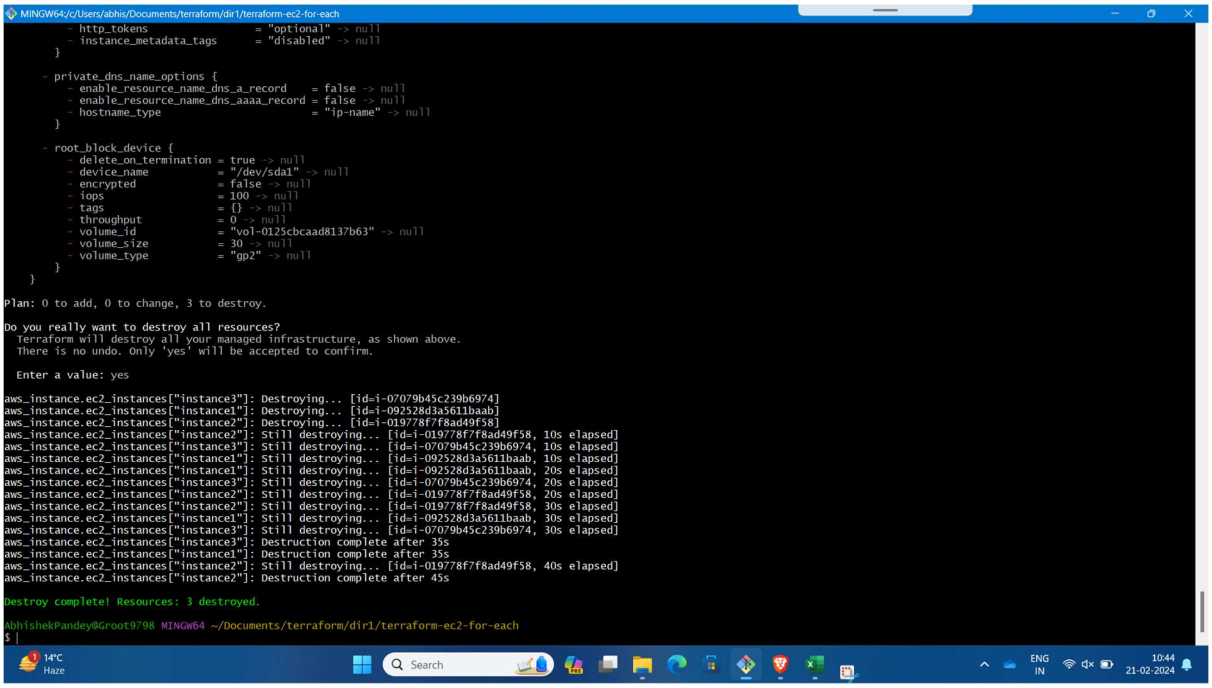
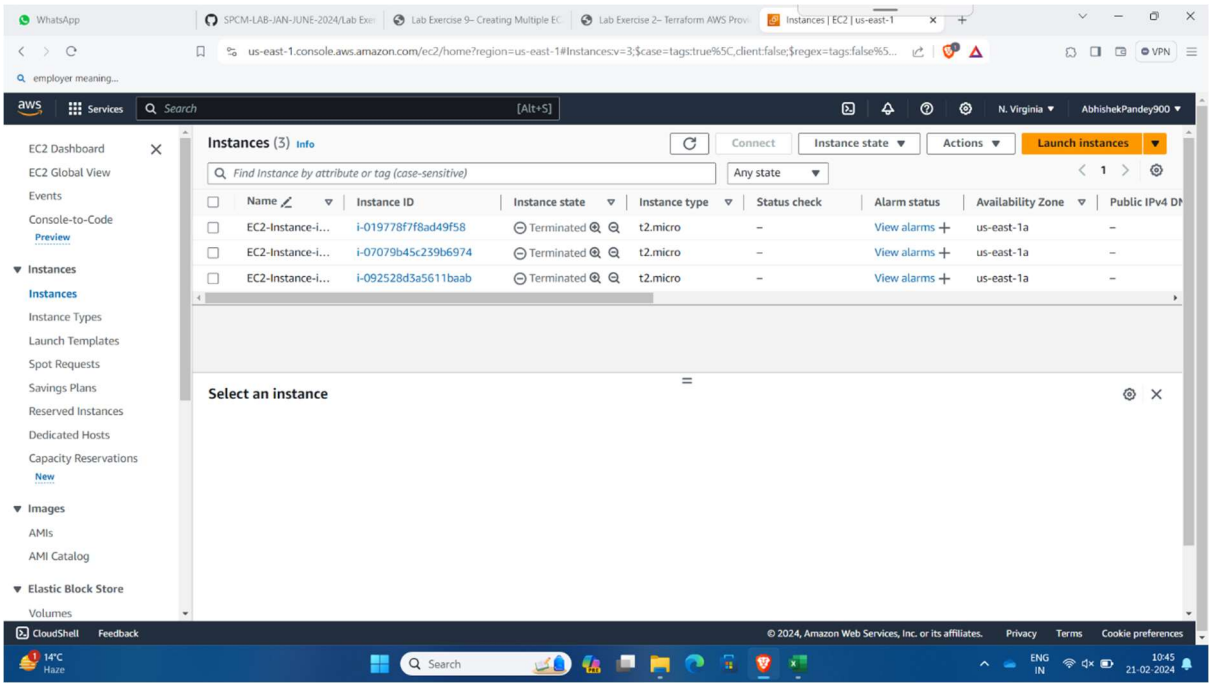
Privacy
Terms
Cookie preferences
14°C Haze
Search
ENG IN
10:43 21-02-2024


MINGW64:/c/Users/abhis/Documents/terraform/dir1/terraform-ec2-for-each
- http_tokens = "optional" -> null
- instance_metadata_tags = "disabled" -> null
}
- private_dns_name_options {
- enable_resource_name_dns_a_record = false -> null
- enable_resource_name_dns_aaaa_record = false -> null
- hostname_type = "ip-name" -> null
}
- root_block_device {
- delete_on_termination = true -> null
- device_name = "/dev/sda1" -> null
- encrypted = false -> null
- iops = 100 -> null
- tags = {} -> null
- throughput = 0 -> null
- volume_id = "vol-0125cbcaad8137b63" -> null
- volume_size = 30 -> null
- volume_type = "gp2" -> null
}
}
Plan: 0 to add, 0 to change, 3 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_instances["instance3"]: Destroying... [id=i-07079b45c239b6974]
aws_instance.ec2_instances["instance1"]: Destroying... [id=i-092528d3a5611baab]
aws_instance.ec2_instances["instance2"]: Destroying... [id=i-019778f7f8ad49f58]
aws_instance.ec2_instances["instance2"]: Still destroying... [id=i-019778f7f8ad49f58, 10s elapsed]
aws_instance.ec2_instances["instance3"]: Still destroying... [id=i-07079b45c239b6974, 10s elapsed]
aws_instance.ec2_instances["instance1"]: Still destroying... [id=i-092528d3a5611baab, 10s elapsed]
aws_instance.ec2_instances["instance1"]: Still destroying... [id=i-092528d3a5611baab, 20s elapsed]
aws_instance.ec2_instances["instance3"]: Still destroying... [id=i-07079b45c239b6974, 20s elapsed]
aws_instance.ec2_instances["instance2"]: Still destroying... [id=i-019778f7f8ad49f58, 20s elapsed]
aws_instance.ec2_instances["instance2"]: Still destroying... [id=i-019778f7f8ad49f58, 30s elapsed]
aws_instance.ec2_instances["instance1"]: Still destroying... [id=i-092528d3a5611baab, 30s elapsed]
aws_instance.ec2_instances["instance3"]: Still destroying... [id=i-07079b45c239b6974, 30s elapsed]
aws_instance.ec2_instances["instance3"]: Destruction complete after 35s
aws_instance.ec2_instances["instance1"]: Destruction complete after 35s
aws_instance.ec2_instances["instance2"]: Still destroying... [id=i-019778f7f8ad49f58, 40s elapsed]
aws_instance.ec2_instances["instance2"]: Destruction complete after 45s
Destroy complete! Resources: 3 destroyed.
AbhishekPandey@Groot9798 MINGW64 ~/Documents/terraform/dir1/terraform-ec2-for-each
$
14°C Haze
Search
ENG IN
10:44 21-02-2024


WhatsApp
SPCM-LAB-JAN-JUNE-2024/Lab Exe
Lab Exercise 9– Creating Multiple EC
Lab Exercise 2– Terraform AWS Prov
Instances | EC2 | us-east-1
us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#Instances:v=3;$case=tags:true%5C,client:false;$regex=tags:false%5...
VPN
employer meaning...
aws
Services
Search
[Alt+S]
N. Virginia
AbhishekPandey900
EC2 Dashboard
EC2 Global View
Events
Console-to-Code
Preview
Instances
Instances
Instance Types
Launch Templates
Spot Requests
Savings Plans
Reserved Instances
Dedicated Hosts
Capacity Reservations
New
Images
AMIs
AMI Catalog
Elastic Block Store
Volumes
Instances (3) Info
Connect
Instance state
Actions
Launch instances
Find Instance by attribute or tag (case-sensitive)
Any state
Name
Instance ID
Instance state
Instance type
Status check
Alarm status
Availability Zone
Public IPv4 DN
EC2-Instance-i...
i-019778f7f8ad49f58
Terminated
t2.micro
View alarms
us-east-1a
EC2-Instance-i...
i-07079b45c239b6974
Terminated
t2.micro
View alarms
us-east-1a
EC2-Instance-i...
i-092528d3a5611baab
Terminated
t2.micro
View alarms
us-east-1a
Select an instance
CloudShell
Feedback
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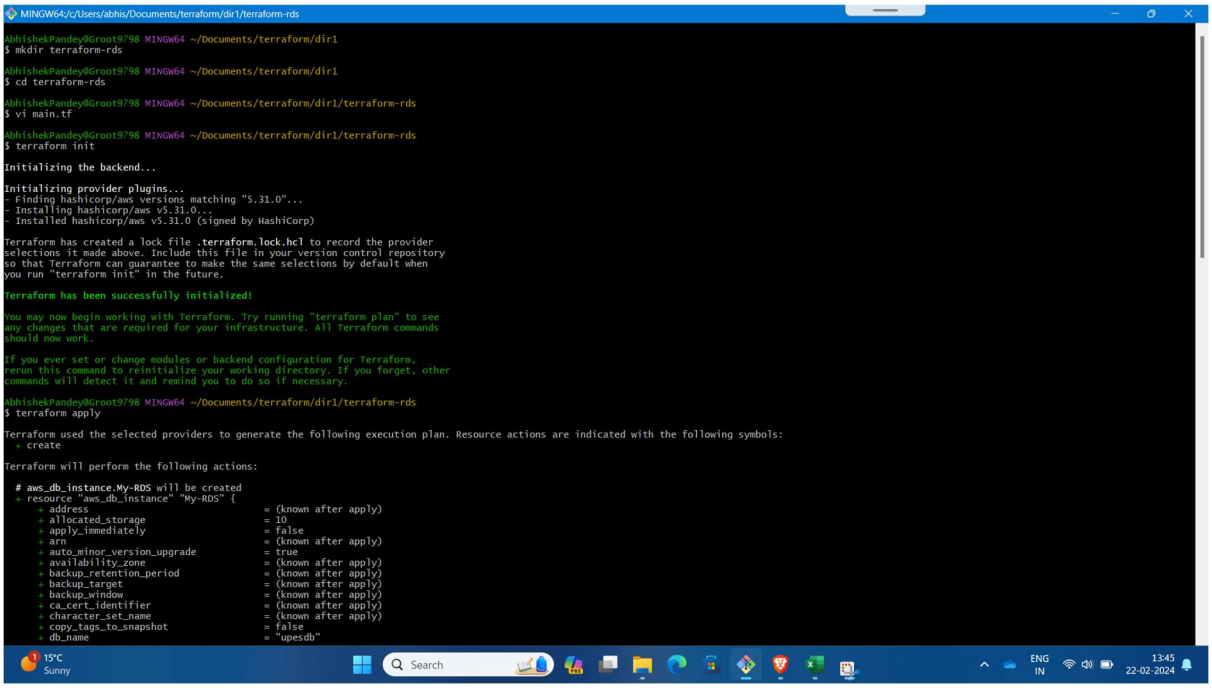
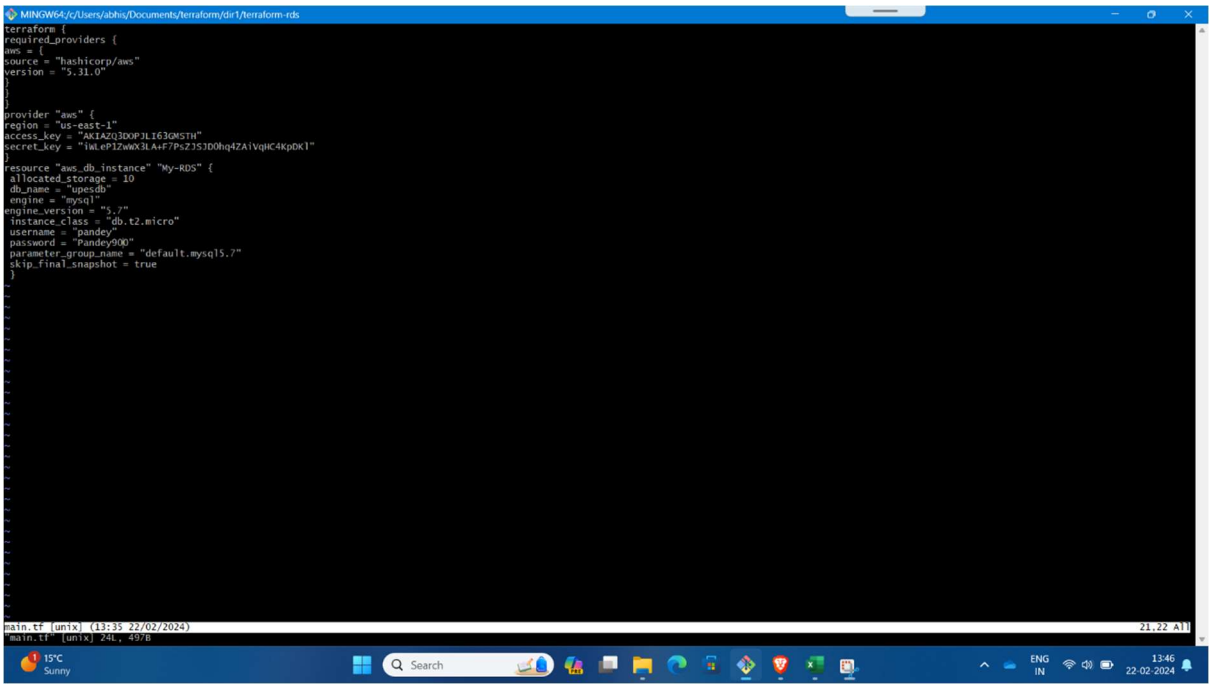
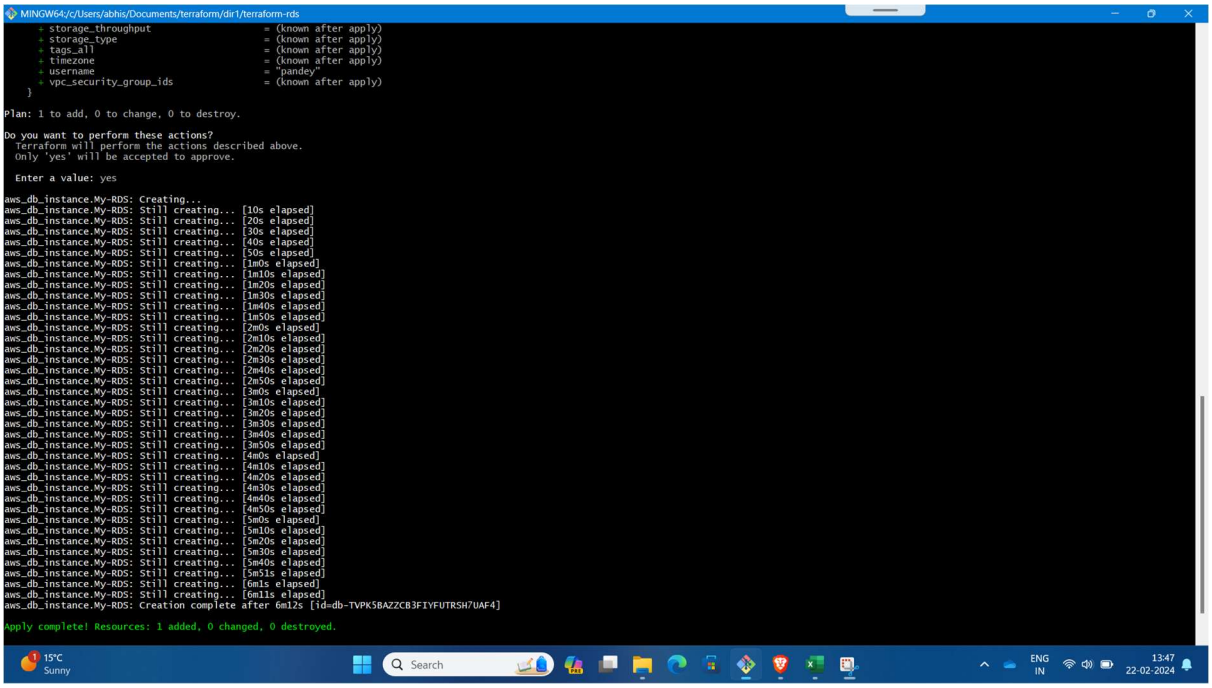
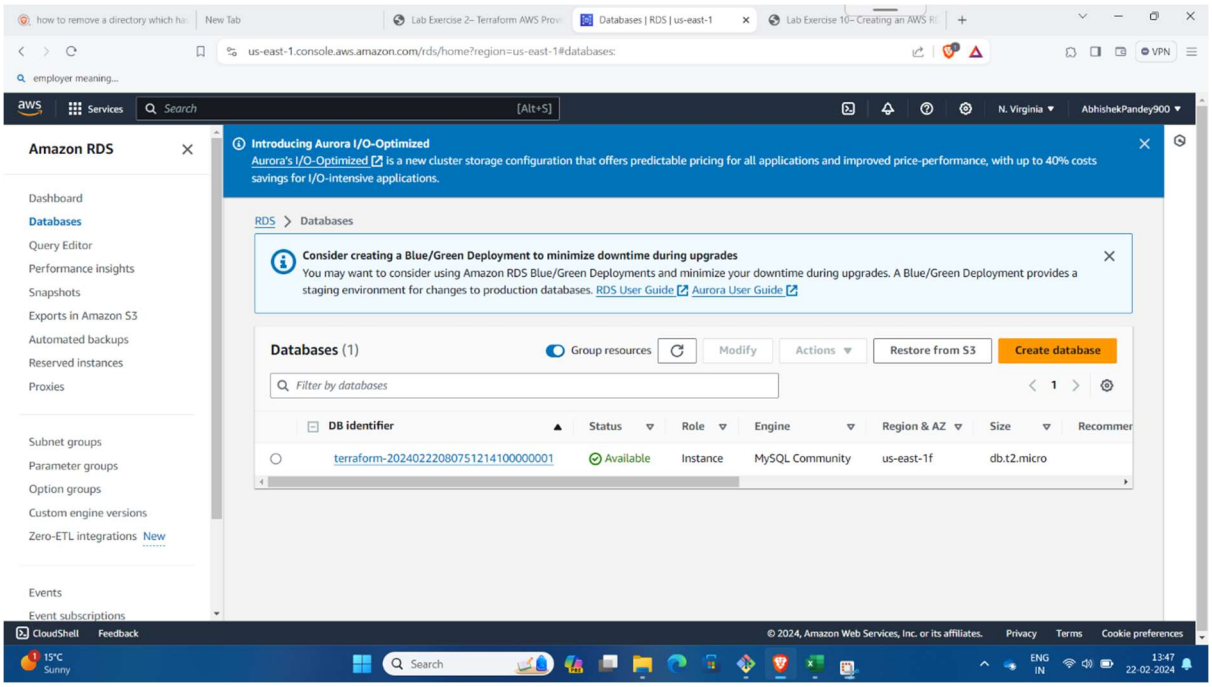
Cookie preferences
14°C Haze
Search
ENG IN
10:45 21-02-2024

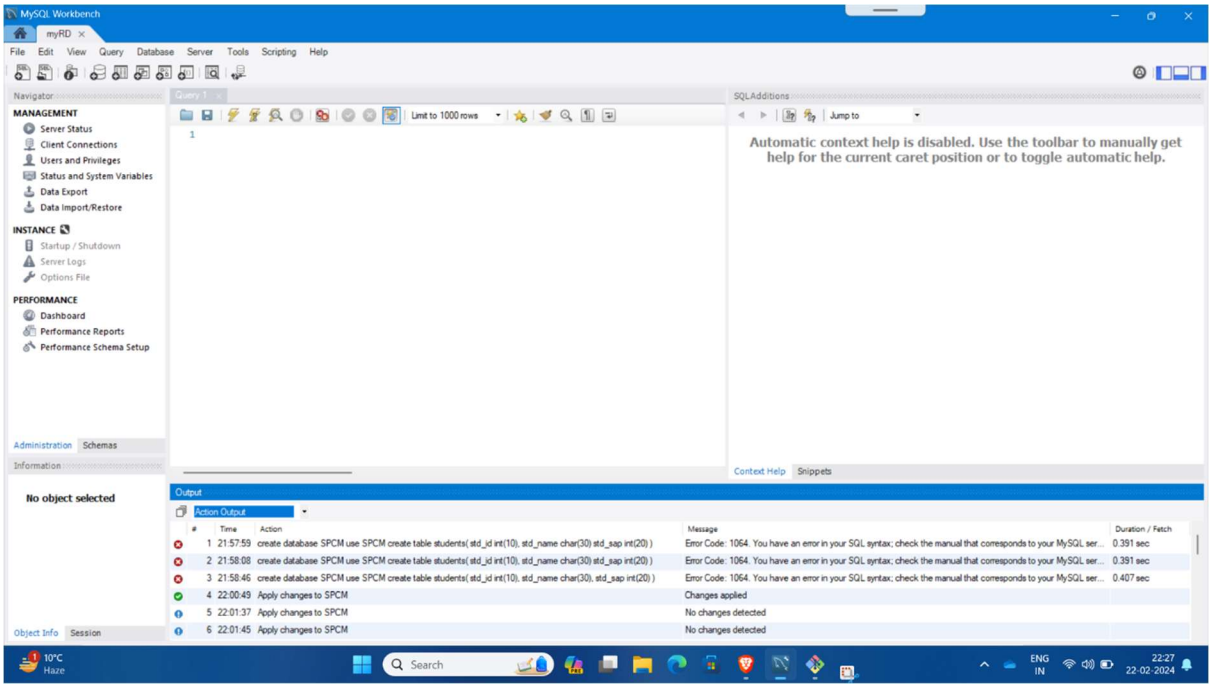
EXPERIMENT-10

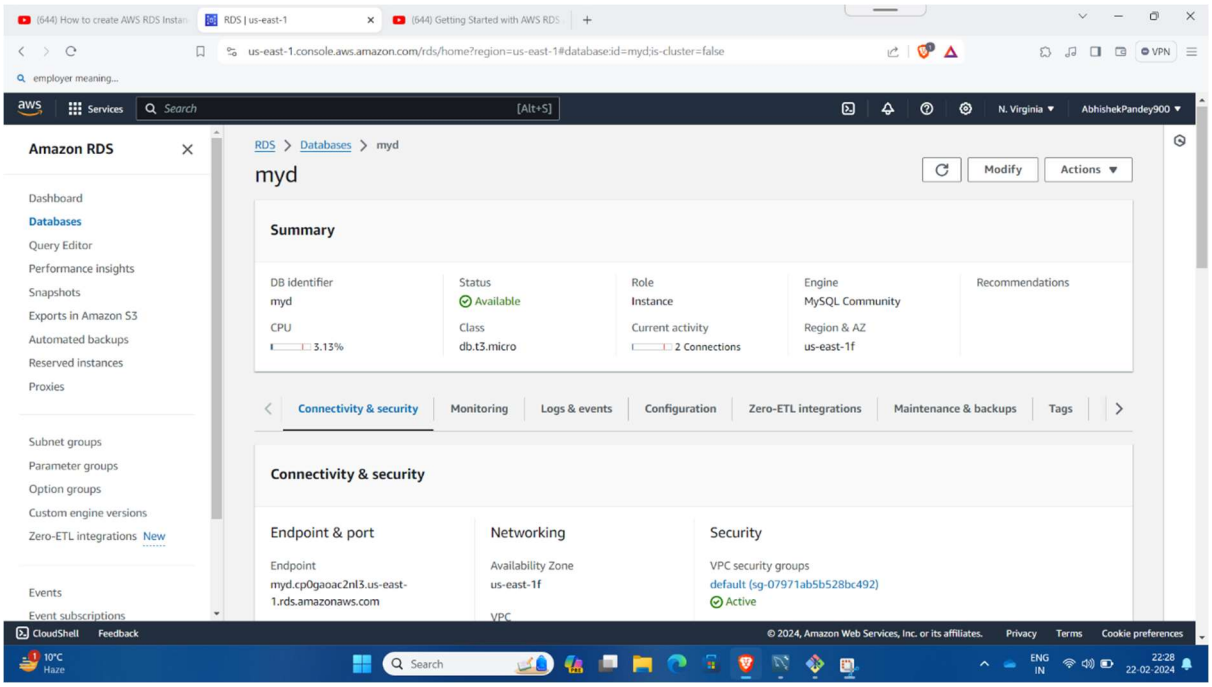





MINGW64:/c/Users/abhis/Documents/terraform/dir1/terraform-rds
+ storage_throughput = (known after apply)
+ storage_type = (known after apply)
+ tags_all = (known after apply)
+ timezone = (known after apply)
+ username = "pandey"
+ vpc_security_group_ids = (known after apply)
}
Plan: 1 to add, 0 to change, 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_db_instance.My-RDS: Creating...
aws_db_instance.My-RDS: Still creating... [10s elapsed]
aws_db_instance.My-RDS: Still creating... [20s elapsed]
aws_db_instance.My-RDS: Still creating... [30s elapsed]
aws_db_instance.My-RDS: Still creating... [40s elapsed]
aws_db_instance.My-RDS: Still creating... [50s elapsed]
aws_db_instance.My-RDS: Still creating... [1m0s elapsed]
aws_db_instance.My-RDS: Still creating... [1m10s elapsed]
aws_db_instance.My-RDS: Still creating... [1m20s elapsed]
aws_db_instance.My-RDS: Still creating... [1m30s elapsed]
aws_db_instance.My-RDS: Still creating... [1m40s elapsed]
aws_db_instance.My-RDS: Still creating... [1m50s elapsed]
aws_db_instance.My-RDS: Still creating... [2m0s elapsed]
aws_db_instance.My-RDS: Still creating... [2m10s elapsed]
aws_db_instance.My-RDS: Still creating... [2m20s elapsed]
aws_db_instance.My-RDS: Still creating... [2m30s elapsed]
aws_db_instance.My-RDS: Still creating... [2m40s elapsed]
aws_db_instance.My-RDS: Still creating... [2m50s elapsed]
aws_db_instance.My-RDS: Still creating... [3m0s elapsed]
aws_db_instance.My-RDS: Still creating... [3m10s elapsed]
aws_db_instance.My-RDS: Still creating... [3m20s elapsed]
aws_db_instance.My-RDS: Still creating... [3m30s elapsed]
aws_db_instance.My-RDS: Still creating... [3m40s elapsed]
aws_db_instance.My-RDS: Still creating... [3m50s elapsed]
aws_db_instance.My-RDS: Still creating... [4m0s elapsed]
aws_db_instance.My-RDS: Still creating... [4m10s elapsed]
aws_db_instance.My-RDS: Still creating... [4m20s elapsed]
aws_db_instance.My-RDS: Still creating... [4m30s elapsed]
aws_db_instance.My-RDS: Still creating... [4m40s elapsed]
aws_db_instance.My-RDS: Still creating... [4m50s elapsed]
aws_db_instance.My-RDS: Still creating... [5m0s elapsed]
aws_db_instance.My-RDS: Still creating... [5m10s elapsed]
aws_db_instance.My-RDS: Still creating... [5m20s elapsed]
aws_db_instance.My-RDS: Still creating... [5m30s elapsed]
aws_db_instance.My-RDS: Still creating... [5m40s elapsed]
aws_db_instance.My-RDS: Still creating... [5m51s elapsed]
aws_db_instance.My-RDS: Still creating... [6m1s elapsed]
aws_db_instance.My-RDS: Still creating... [6m11s elapsed]
aws_db_instance.My-RDS: Creation complete after 6m12s [id=db-TVPK5BAZZCB3FIYFUTRSH7UAF4]
Apply complete! Resources: 1 added, 0 changed, 0 destroyed.
15°C Sunny
Search
ENG IN
13:47 22-02-2024


us-east-1.console.aws.amazon.com/rds/home?region=us-east-1#databases:
Services
Search [Alt+S]
N. Virginia
AbhishekPandey900
Amazon RDS
Dashboard
Databases
Query Editor
Performance insights
Snapshots
Exports in Amazon S3
Automated backups
Reserved instances
Proxies
Subnet groups
Parameter groups
Option groups
Custom engine versions
Zero-ETL integrations New
Events
Event subscriptions
Introducing Aurora I/O-Optimized
Aurora's I/O-Optimized is a new cluster storage configuration that offers predictable pricing for all applications and improved price-performance, with up to 40% costs savings for I/O-intensive applications.
RDS > Databases
Consider creating a Blue/Green Deployment to minimize downtime during upgrades
You may want to consider using Amazon RDS Blue/Green Deployments and minimize your downtime during upgrades. A Blue/Green Deployment provides a staging environment for changes to production databases. RDS User Guide Aurora User Guide
Databases (1)
Group resources
Modify
Actions
Restore from S3
Create database
Filter by databases
DB identifier
Status
Role
Engine
Region & AZ
Size
terraform-20240222080751214100000001
Available
Instance
MySQL Community
us-east-1f
db.t2.micro
CloudShell
Feedback
© 2024, Amazon Web Services, Inc. or its affiliates.
Privacy
Terms
Cookie preferences
15°C Sunny
Search
ENG IN
13:47 22-02-2024


MySQL Workbench
myRD
File Edit View Query Database Server Tools Scripting Help
Navigator
MANAGEMENT
Server Status
Client Connections
Users and Privileges
Status and System Variables
Data Export
Data Import/Restore
INSTANCE
Startup / Shutdown
Server Logs
Options File
PERFORMANCE
Dashboard
Performance Reports
Performance Schema Setup
Administration Schemas
Information
No object selected
Object Info Session
Query 1
Limit to 1000 rows
SQLAdditions
Jump to
Automatic context help is disabled. Use the toolbar to manually get help for the current caret position or to toggle automatic help.
Context Help Snippets
Output
Action Output
Time Action Message Duration / Fetch
1 21:57:59 create database SPCM use SPCM create table students(std_id int(10), std_name char(30) std_sap int(20)) Error Code: 1064. You have an error in your SQL syntax; check the manual that corresponds to your MySQL ser... 0.391 sec
2 21:58:08 create database SPCM use SPCM create table students(std_id int(10), std_name char(30) std_sap int(20)) Error Code: 1064. You have an error in your SQL syntax; check the manual that corresponds to your MySQL ser... 0.391 sec
3 21:58:46 create database SPCM use SPCM create table students(std_id int(10), std_name char(30), std_sap int(20)) Error Code: 1064. You have an error in your SQL syntax; check the manual that corresponds to your MySQL ser... 0.407 sec
4 22:00:49 Apply changes to SPCM Changes applied
5 22:01:37 Apply changes to SPCM No changes detected
6 22:01:45 Apply changes to SPCM No changes detected
10°C Haze
Search
ENG IN
22:27 22-02-2024


(644) How to create AWS RDS Instan
RDS | us-east-1
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us-east-1.console.aws.amazon.com/rds/home?region=us-east-1#database:id=myd;is-cluster=false
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