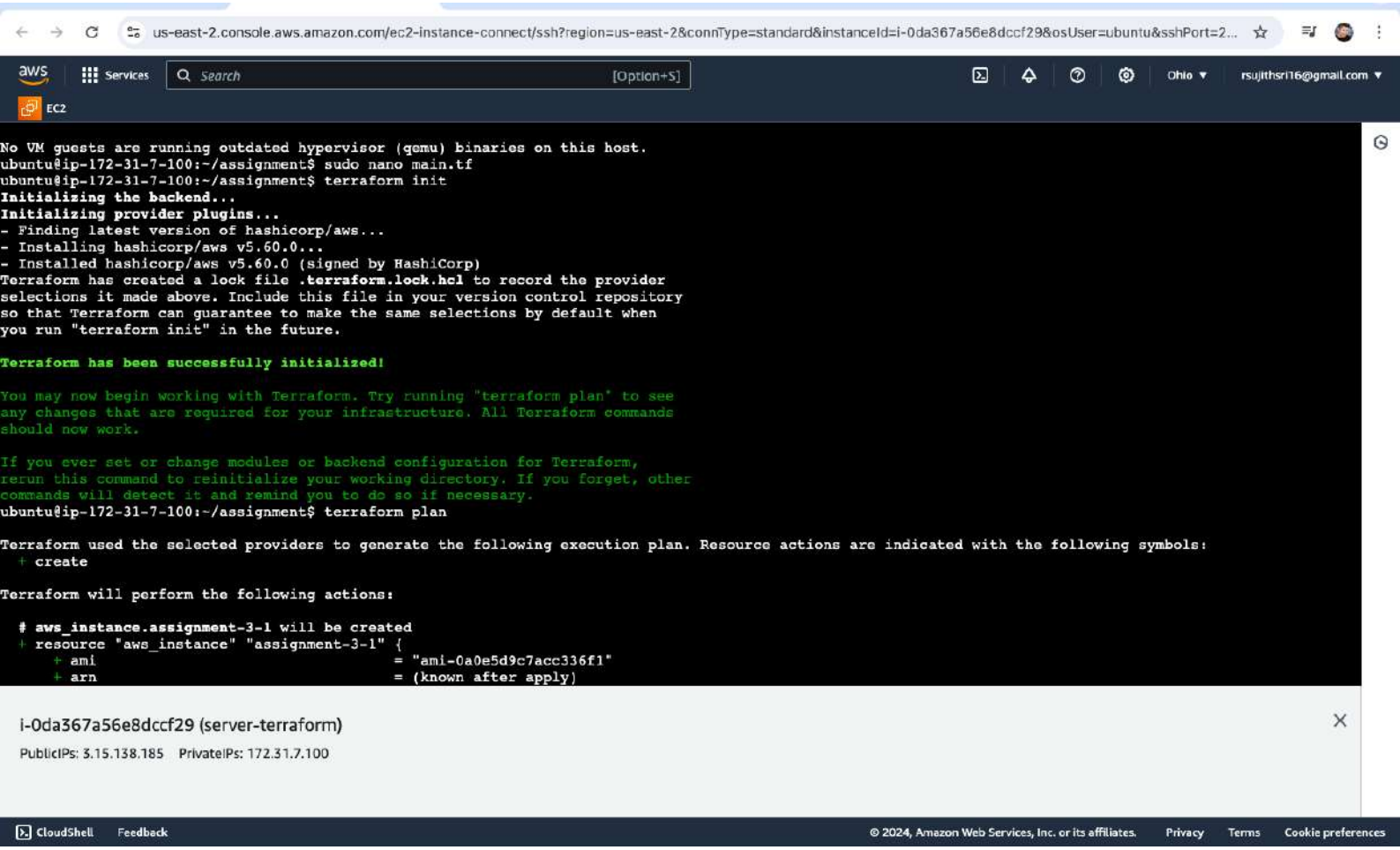
Module 8: Terraform
Assignment - 3

Tasks To Be Performed:

1. Destroy the previous deployment
2. Create 2 EC2 instances in Ohio and N.Virginia respectively
3. Rename Ohio's instance to 'hello-ohio' and Virginia's instance to 'hello-virginia'


us-east-2.console.aws.amazon.com/ec2-instance-connect/ssh?region=us-east-2&connType=standard&instanceId=i-0da367a56e8dccf29&osUser=ubuntu&sshPort=2...
aws
Services
Search
[Option+S]
Ohio
rsujithsri16@gmail.com
EC2
No VM guests are running outdated hypervisor (qemu) binaries on this host.
ubuntu@ip-172-31-7-100:~/assignment$ sudo nano main.tf
ubuntu@ip-172-31-7-100:~/assignment$ terraform init
Initializing the backend...
Initializing provider plugins...
- Finding latest version of hashicorp/aws...
- Installing hashicorp/aws v5.60.0...
- Installed hashicorp/aws v5.60.0 (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.
ubuntu@ip-172-31-7-100:~/assignment$ terraform plan
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.assignment-3-1 will be created
+ resource "aws_instance" "assignment-3-1" {
+ ami = "ami-0a0e5d9c7acc336f1"
+ arn = (known after apply)
i-0da367a56e8dccf29 (server-terraform)
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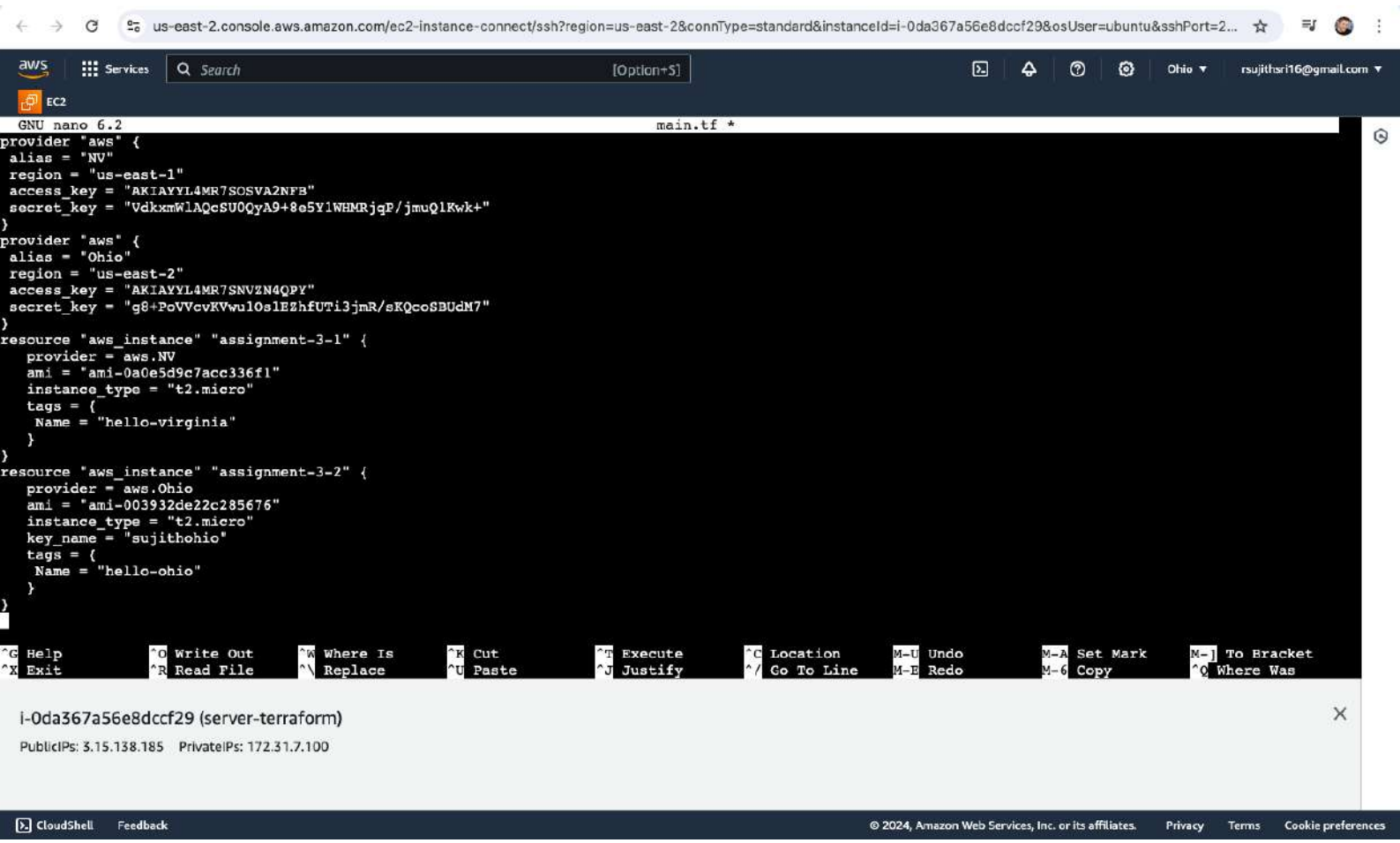
us-east-2.console.aws.amazon.com/ec2-instance-connect/ssh?region=us-east-2&connType=standard&instanceId=i-0da367a56e8dccf29&osUser=ubuntu&sshPort=2...
aws
Services
Search
[Option+S]
Ohio
rsujithsri16@gmail.com
EC2
GNU nano 6.2
main.tf *
provider "aws" {
alias = "NV"
region = "us-east-1"
access_key = "AKIAYYL4MR7SOSVA2NFB"
secret_key = "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"
}
provider "aws" {
alias = "Ohio"
region = "us-east-2"
access_key = "AKIAYYL4MR7SNVZN4QPY"
secret_key = "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"
}
resource "aws_instance" "assignment-3-1" {
provider = aws.NV
ami = "ami-0a0e5d9c7acc336f1"
instance_type = "t2.micro"
tags = {
Name = "hello-virginia"
}
}
resource "aws_instance" "assignment-3-2" {
provider = aws.Ohio
ami = "ami-003932de22c285676"
instance_type = "t2.micro"
key_name = "sujithohio"
tags = {
Name = "hello-ohio"
}
}
^G Help ^O Write Out ^W Where Is ^K Cut ^T Execute ^C Location M-U Undo M-A Set Mark M-] To Bracket
^X Exit ^R Read File ^\ Replace ^U Paste ^J Justify ^/ Go To Line M-E Redo M-6 Copy ^Q Where Was
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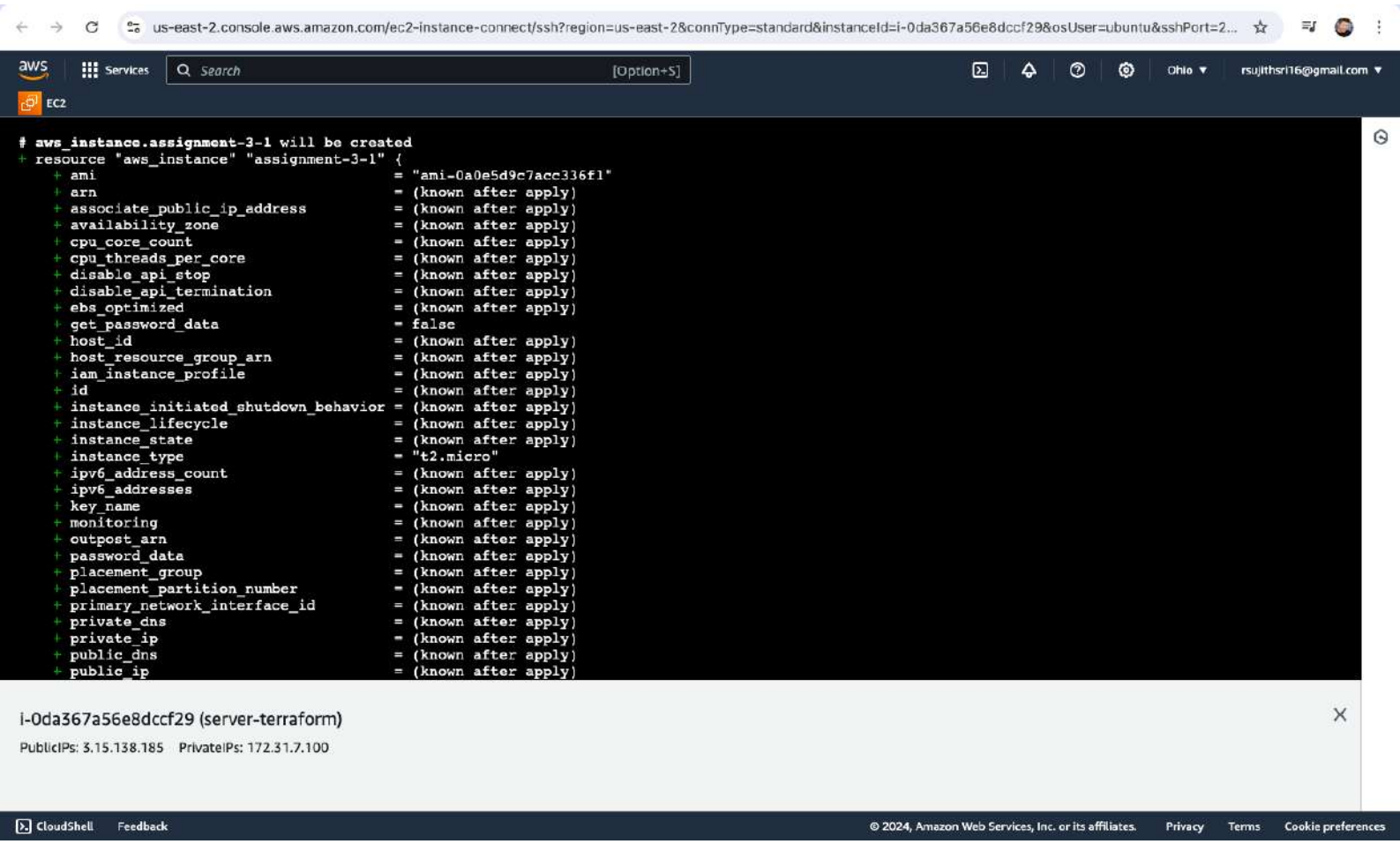
us-east-2.console.aws.amazon.com/ec2-instance-connect/ssh?region=us-east-2&connType=standard&instanceId=i-0da367a56e8dccf29&osUser=ubuntu&sshPort=2...
aws
Services
Search
[Option+S]
Ohio
rsujithsri16@gmail.com
EC2
# aws_instance.assignment-3-1 will be created
+ resource "aws_instance" "assignment-3-1" {
+ ami = "ami-0a0e5d9c7acc336f1"
+ 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)
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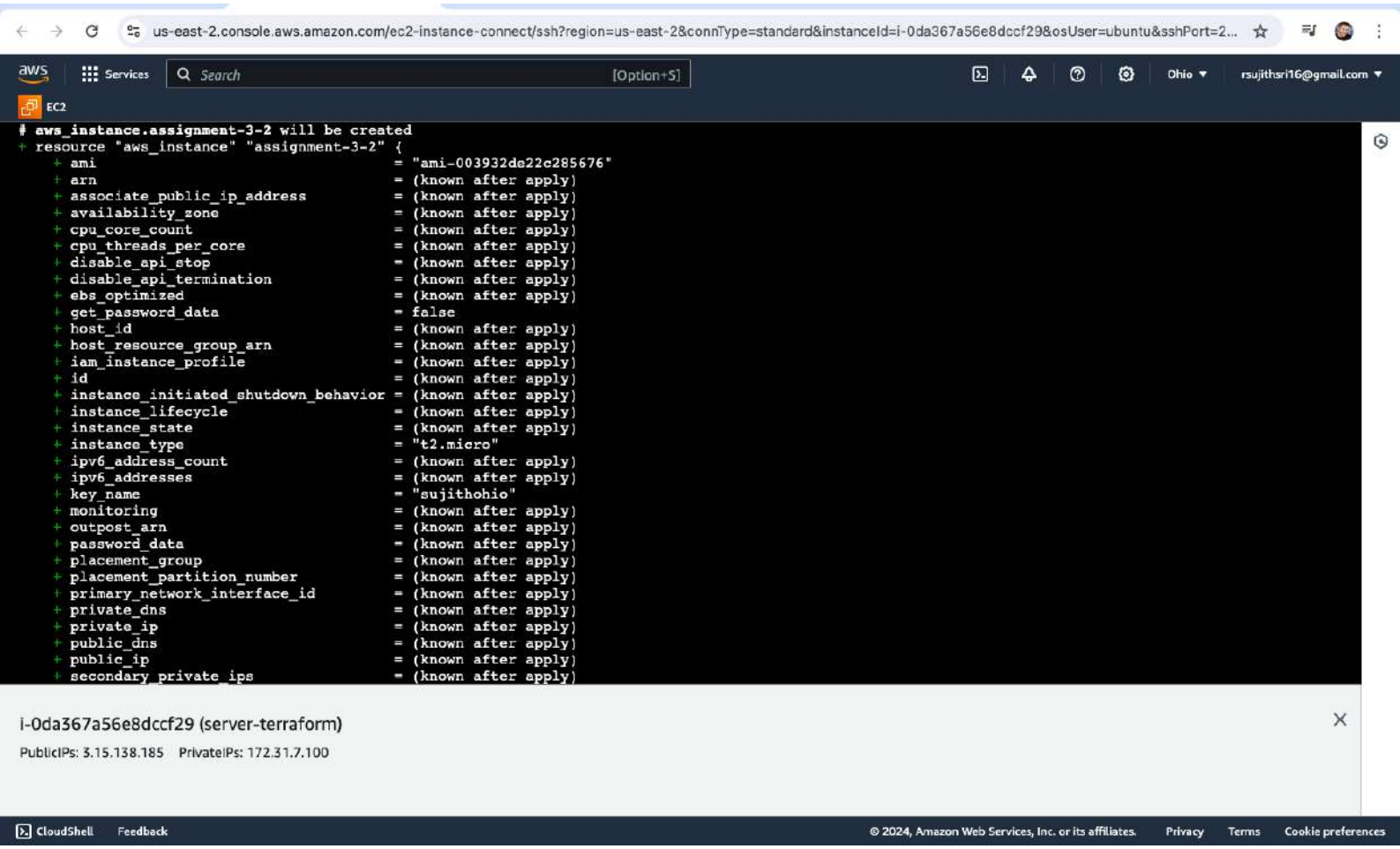
us-east-2.console.aws.amazon.com/ec2-instance-connect/ssh?region=us-east-2&connType=standard&instanceId=i-0da367a56e8dccf29&osUser=ubuntu&sshPort=2...
aws
Services
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[Option+S]
Ohio
rsujithsri16@gmail.com
EC2
# aws_instance.assignment-3-2 will be created
+ resource "aws_instance" "assignment-3-2" {
+ ami = "ami-003932de22c285676"
+ 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 = "sujithohio"
+ 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)
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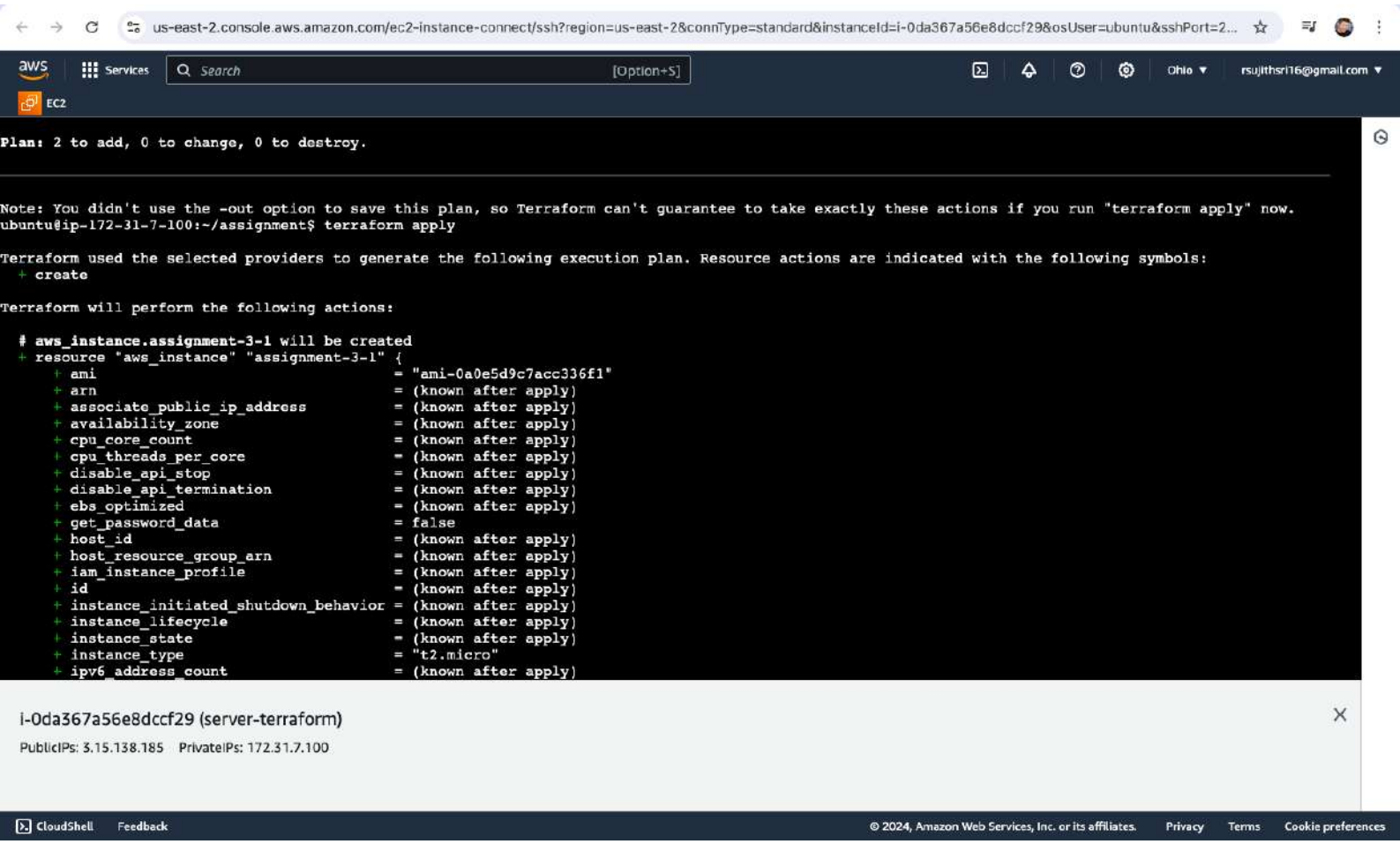
us-east-2.console.aws.amazon.com/ec2-instance-connect/ssh?region=us-east-2&connType=standard&instanceId=i-0da367a56e8dccf29&osUser=ubuntu&sshPort=2...
aws
Services
Search
[Option+S]
Ohio
rsujithsri16@gmail.com
EC2
Plan: 2 to add, 0 to change, 0 to destroy.
Note: You didn't use the -out option to save this plan, so Terraform can't guarantee to take exactly these actions if you run "terraform apply" now.
ubuntu@ip-172-31-7-100:~/assignment$ 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.assignment-3-1 will be created
+ resource "aws_instance" "assignment-3-1" {
+ ami = "ami-0a0e5d9c7acc336f1"
+ 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)
i-0da367a56e8dccf29 (server-terraform)
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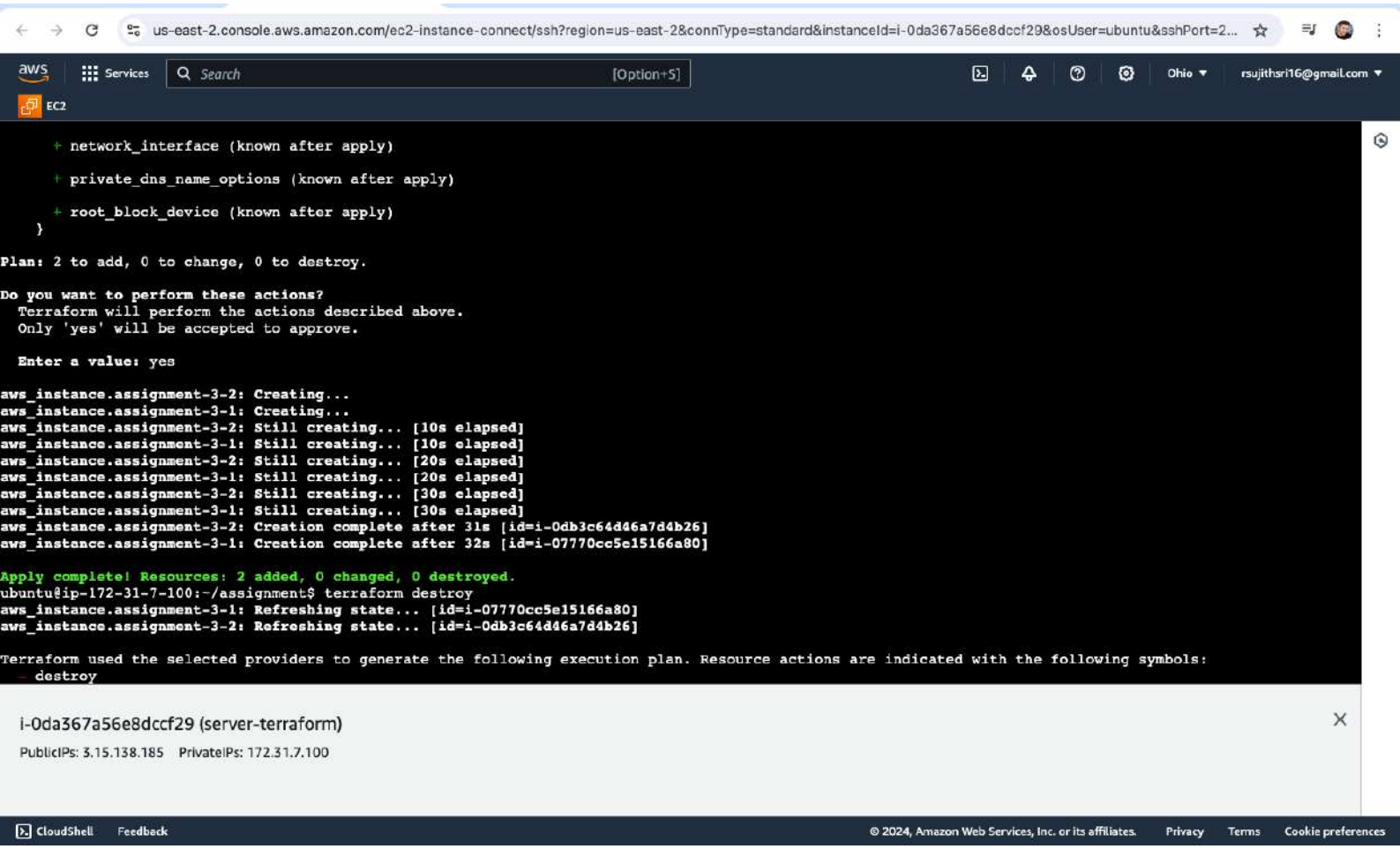
us-east-2.console.aws.amazon.com/ec2-instance-connect/ssh?region=us-east-2&connType=standard&instanceId=i-0da367a56e8dccf29&osUser=ubuntu&sshPort=2...
aws
Services
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[Option+S]
Ohio
rsujithsri16@gmail.com
EC2
+ network_interface (known after apply)
+ private_dns_name_options (known after apply)
+ root_block_device (known after apply)
}
Plan: 2 to add, 0 to change, 0 to destroy.
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.assignment-3-2: Creating...
aws_instance.assignment-3-1: Creating...
aws_instance.assignment-3-2: Still creating... [10s elapsed]
aws_instance.assignment-3-1: Still creating... [10s elapsed]
aws_instance.assignment-3-2: Still creating... [20s elapsed]
aws_instance.assignment-3-1: Still creating... [20s elapsed]
aws_instance.assignment-3-2: Still creating... [30s elapsed]
aws_instance.assignment-3-1: Still creating... [30s elapsed]
aws_instance.assignment-3-2: Creation complete after 31s [id=i-0db3c64d46a7d4b26]
aws_instance.assignment-3-1: Creation complete after 32s [id=i-07770cc5e15166a80]
Apply complete! Resources: 2 added, 0 changed, 0 destroyed.
ubuntu@ip-172-31-7-100:~/assignment$ terraform destroy
aws_instance.assignment-3-1: Refreshing state... [id=i-07770cc5e15166a80]
aws_instance.assignment-3-2: Refreshing state... [id=i-0db3c64d46a7d4b26]
Terraform used the selected providers to generate the following execution plan. Resource actions are indicated with the following symbols:
- destroy
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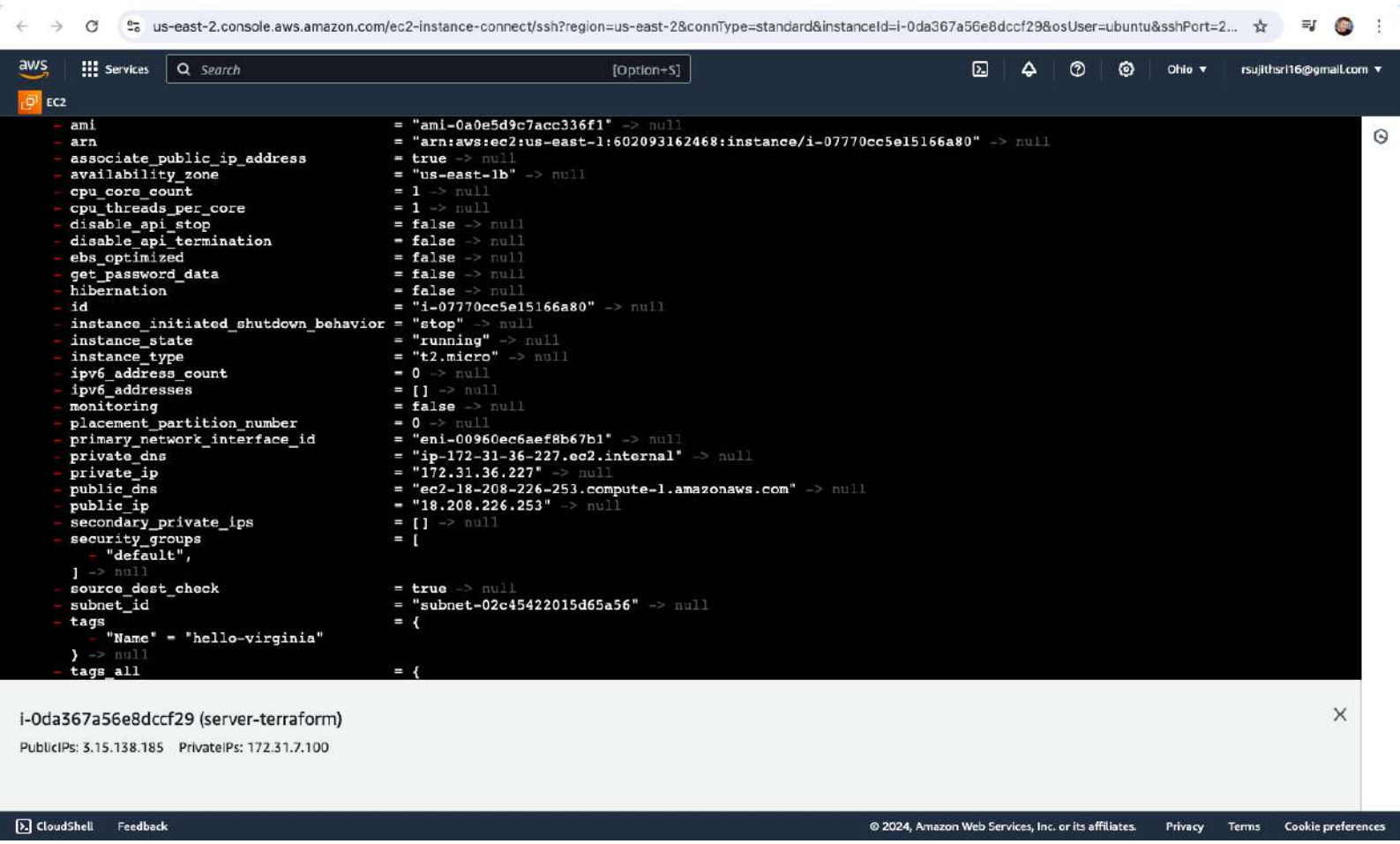
us-east-2.console.aws.amazon.com/ec2-instance-connect/ssh?region=us-east-2&connType=standard&instanceId=i-0da367a56e8dccf29&osUser=ubuntu&sshPort=2...
aws
Services
Search
[Option+S]
Ohio
rsujithsri16@gmail.com
EC2
- ami = "ami-0a0e5d9c7acc336f1" -> null
- arn = "arn:aws:ec2:us-east-1:602093162468:instance/i-07770cc5e15166a80" -> null
- associate_public_ip_address = true -> null
- availability_zone = "us-east-1b" -> 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-07770cc5e15166a80" -> 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-00960ec6aef8b67b1" -> null
- private_dns = "ip-172-31-36-227.ec2.internal" -> null
- private_ip = "172.31.36.227" -> null
- public_dns = "ec2-18-208-226-253.compute-1.amazonaws.com" -> null
- public_ip = "18.208.226.253" -> null
- secondary_private_ips = [] -> null
- security_groups = [
- "default",
] -> null
- source_dest_check = true -> null
- subnet_id = "subnet-02c45422015d65a56" -> null
- tags = {
- "Name" = "hello-virginia"
} -> null
- tags_all = {
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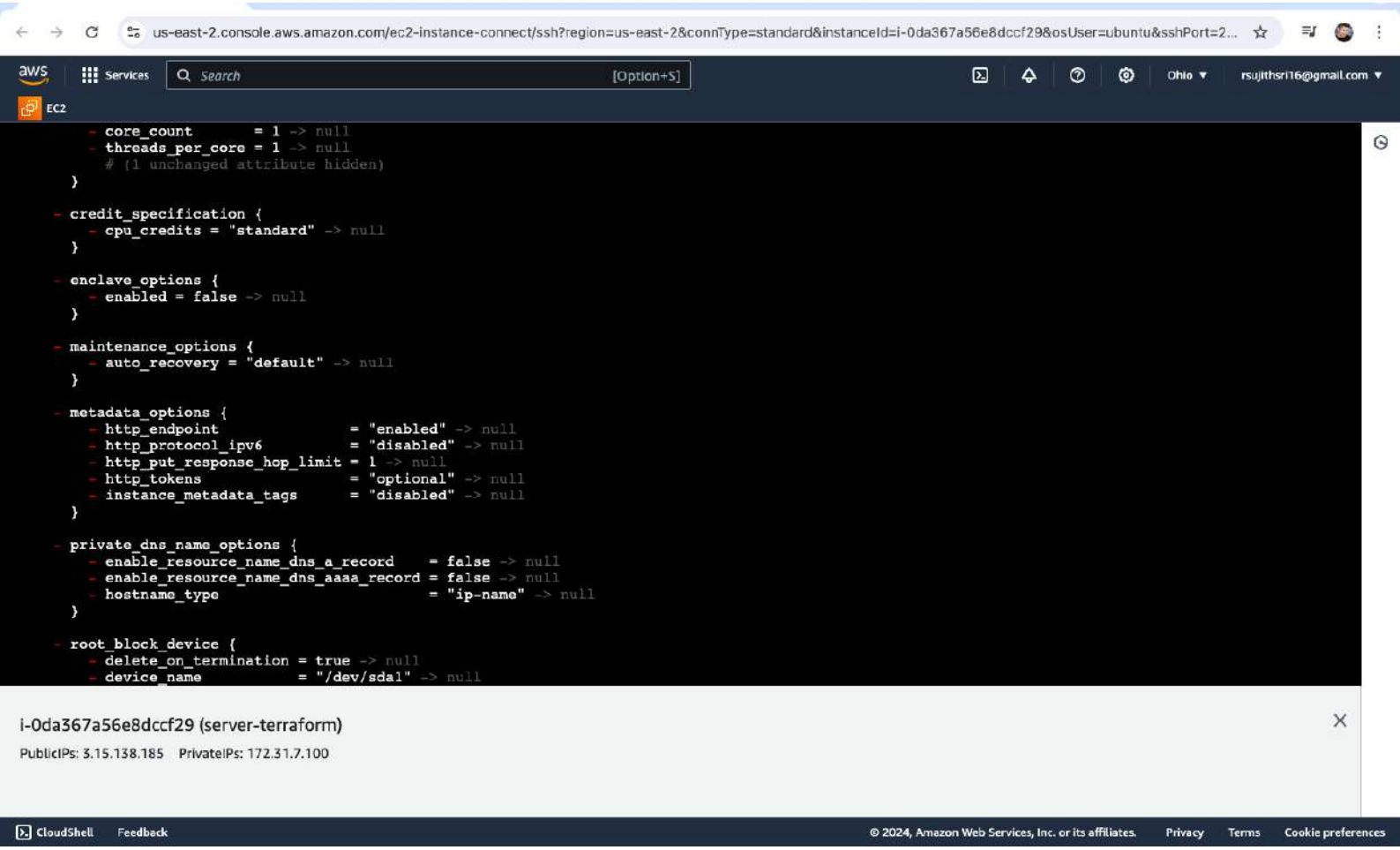
us-east-2.console.aws.amazon.com/ec2-instance-connect/ssh?region=us-east-2&connType=standard&instanceId=i-0da367a56e8dccf29&osUser=ubuntu&sshPort=2...
aws
Services
Search
[Option+S]
Ohio
rsujithsri16@gmail.com
EC2
- core_count = 1 -> null
- threads_per_core = 1 -> null
# (1 unchanged attribute hidden)
}
- 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
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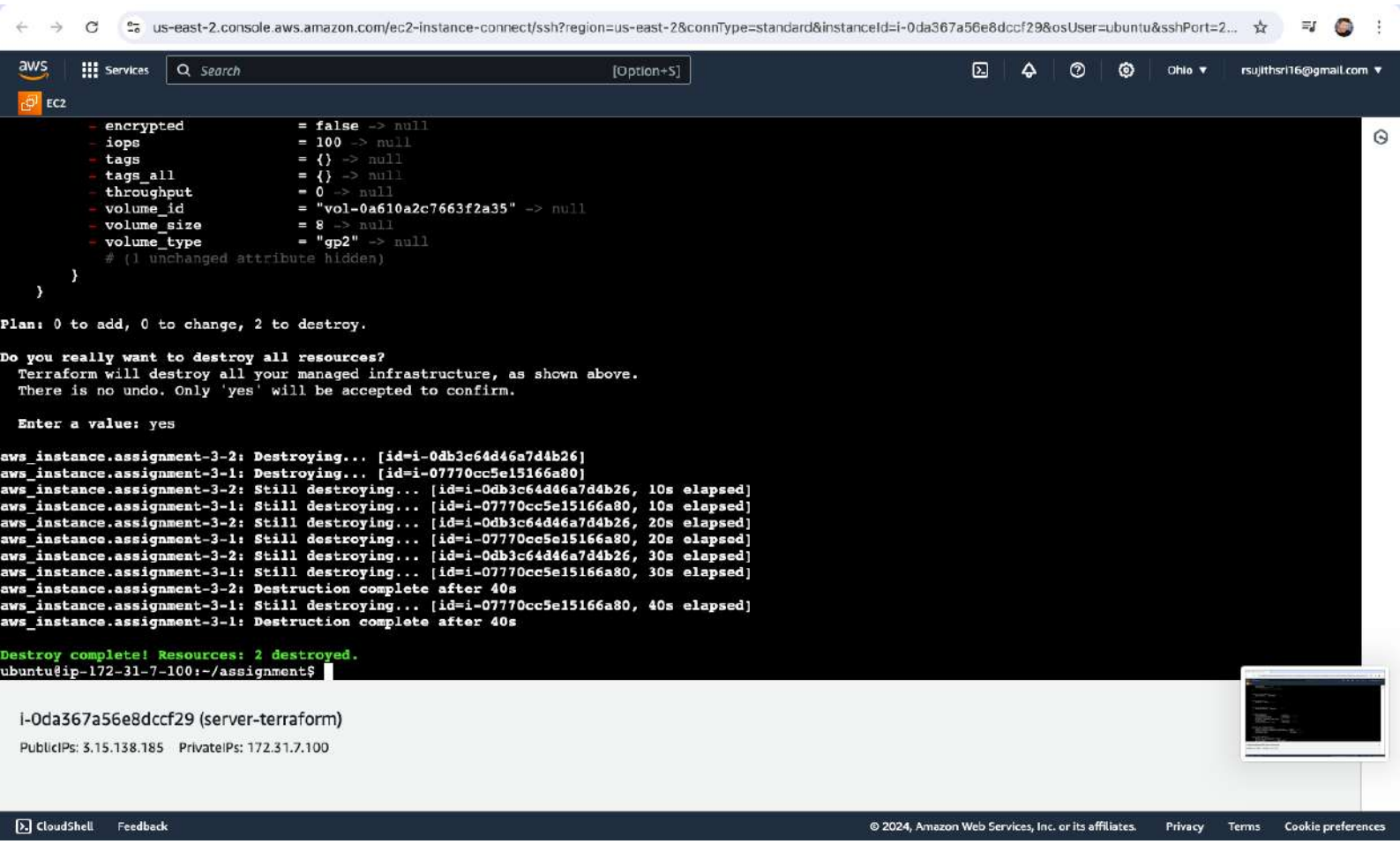
us-east-2.console.aws.amazon.com/ec2-instance-connect/ssh?region=us-east-2&connType=standard&instanceId=i-0da367a56e8dccf29&osUser=ubuntu&sshPort=2...
aws
Services
Search
[Option+S]
Ohio
rsujithsri16@gmail.com
EC2
- encrypted = false -> null
- iops = 100 -> null
- tags = {} -> null
- tags_all = {} -> null
- throughput = 0 -> null
- volume_id = "vol-0a610a2c7663f2a35" -> null
- volume_size = 8 -> null
- volume_type = "gp2" -> null
# (1 unchanged attribute hidden)
}
}
Plan: 0 to add, 0 to change, 2 to destroy.
Do you really want to destroy all resources?
Terraform will destroy all your managed infrastructure, as shown above.
There is no undo. Only 'yes' will be accepted to confirm.
Enter a value: yes
aws_instance.assignment-3-2: Destroying... [id=i-0db3c64d46a7d4b26]
aws_instance.assignment-3-1: Destroying... [id=i-07770cc5e15166a80]
aws_instance.assignment-3-2: Still destroying... [id=i-0db3c64d46a7d4b26, 10s elapsed]
aws_instance.assignment-3-1: Still destroying... [id=i-07770cc5e15166a80, 10s elapsed]
aws_instance.assignment-3-2: Still destroying... [id=i-0db3c64d46a7d4b26, 20s elapsed]
aws_instance.assignment-3-1: Still destroying... [id=i-07770cc5e15166a80, 20s elapsed]
aws_instance.assignment-3-2: Still destroying... [id=i-0db3c64d46a7d4b26, 30s elapsed]
aws_instance.assignment-3-1: Still destroying... [id=i-07770cc5e15166a80, 30s elapsed]
aws_instance.assignment-3-2: Destruction complete after 40s
aws_instance.assignment-3-1: Still destroying... [id=i-07770cc5e15166a80, 40s elapsed]
aws_instance.assignment-3-1: Destruction complete after 40s
Destroy complete! Resources: 2 destroyed.
ubuntu@ip-172-31-7-100:~/assignment$
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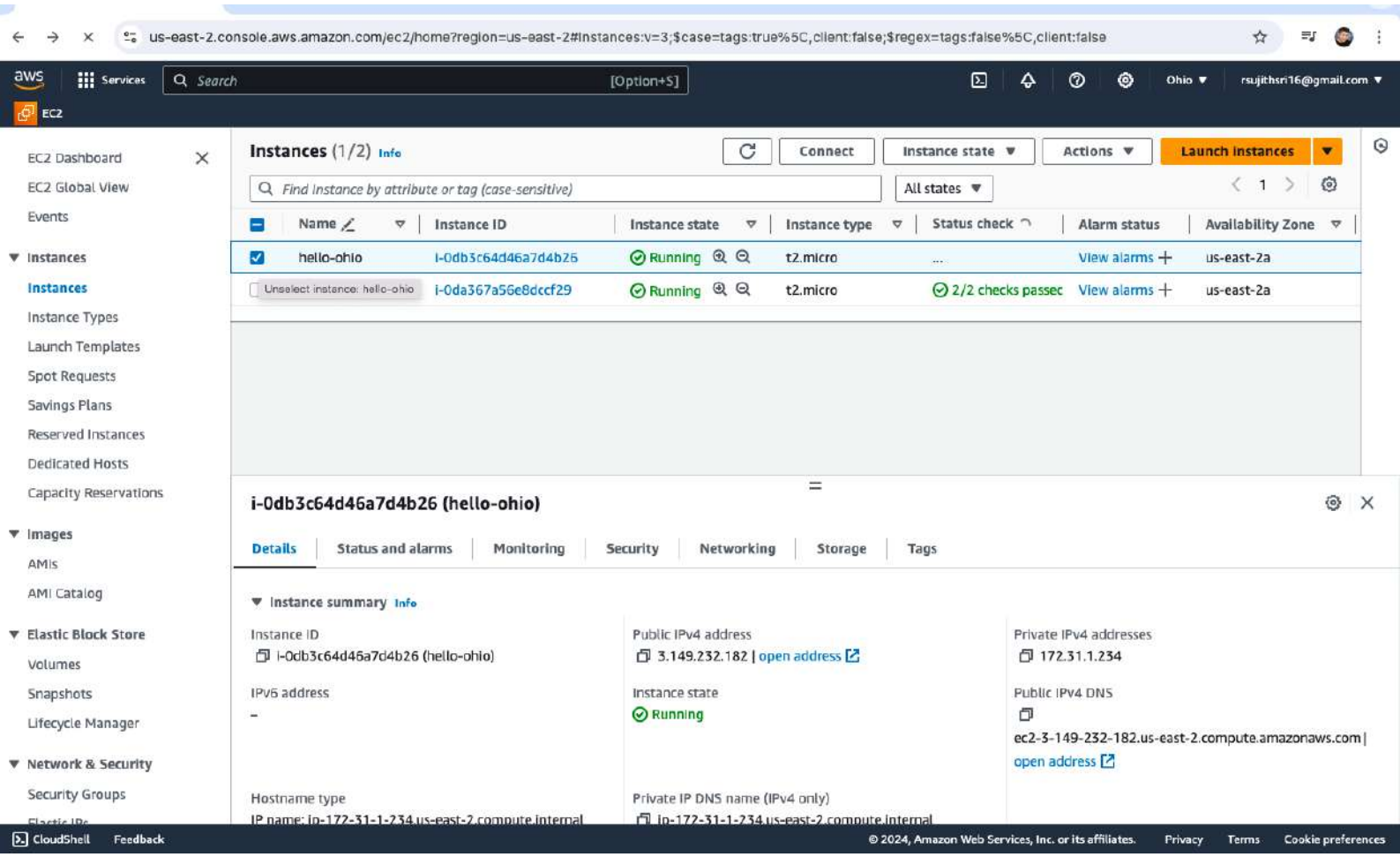
us-east-2.console.aws.amazon.com/ec2/home?region=us-east-2#Instances:v=3;$case=tags:true%5C,client:false;$regex=tags:false%5C,client:false
Services
Search
[Option+S]
Ohio
rsujithsri16@gmail.com
EC2
EC2 Dashboard
EC2 Global View
Events
Instances
Instances
Instance Types
Launch Templates
Spot Requests
Savings Plans
Reserved Instances
Dedicated Hosts
Capacity Reservations
Images
AMIs
AMI Catalog
Elastic Block Store
Volumes
Snapshots
Lifecycle Manager
Network & Security
Security Groups
Instances (1/2) Info
Connect
Instance state
Actions
Launch instances
Find instance by attribute or tag (case-sensitive)
All states
Name
Instance ID
Instance state
Instance type
Status check
Alarm status
Availability Zone
hello-ohio
i-0db3c64d46a7d4b26
Running
t2.micro
View alarms
us-east-2a
Unselect instance: hello-ohio
i-0da367a56e8dccf29
Running
t2.micro
2/2 checks passed
View alarms
us-east-2a
i-0db3c64d46a7d4b26 (hello-ohio)
Details
Status and alarms
Monitoring
Security
Networking
Storage
Tags
Instance summary Info
Instance ID
i-0db3c64d46a7d4b26 (hello-ohio)
IPv6 address
-
Hostname type
IP name: ip-172-31-1-234.us-east-2.compute.internal
Public IPv4 address
3.149.232.182 | open address
Instance state
Running
Private IP DNS name (IPv4 only)
ip-172-31-1-234.us-east-2.compute.internal
Private IPv4 addresses
172.31.1.234
Public IPv4 DNS
ec2-3-149-232-182.us-east-2.compute.amazonaws.com | open address
CloudShell
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