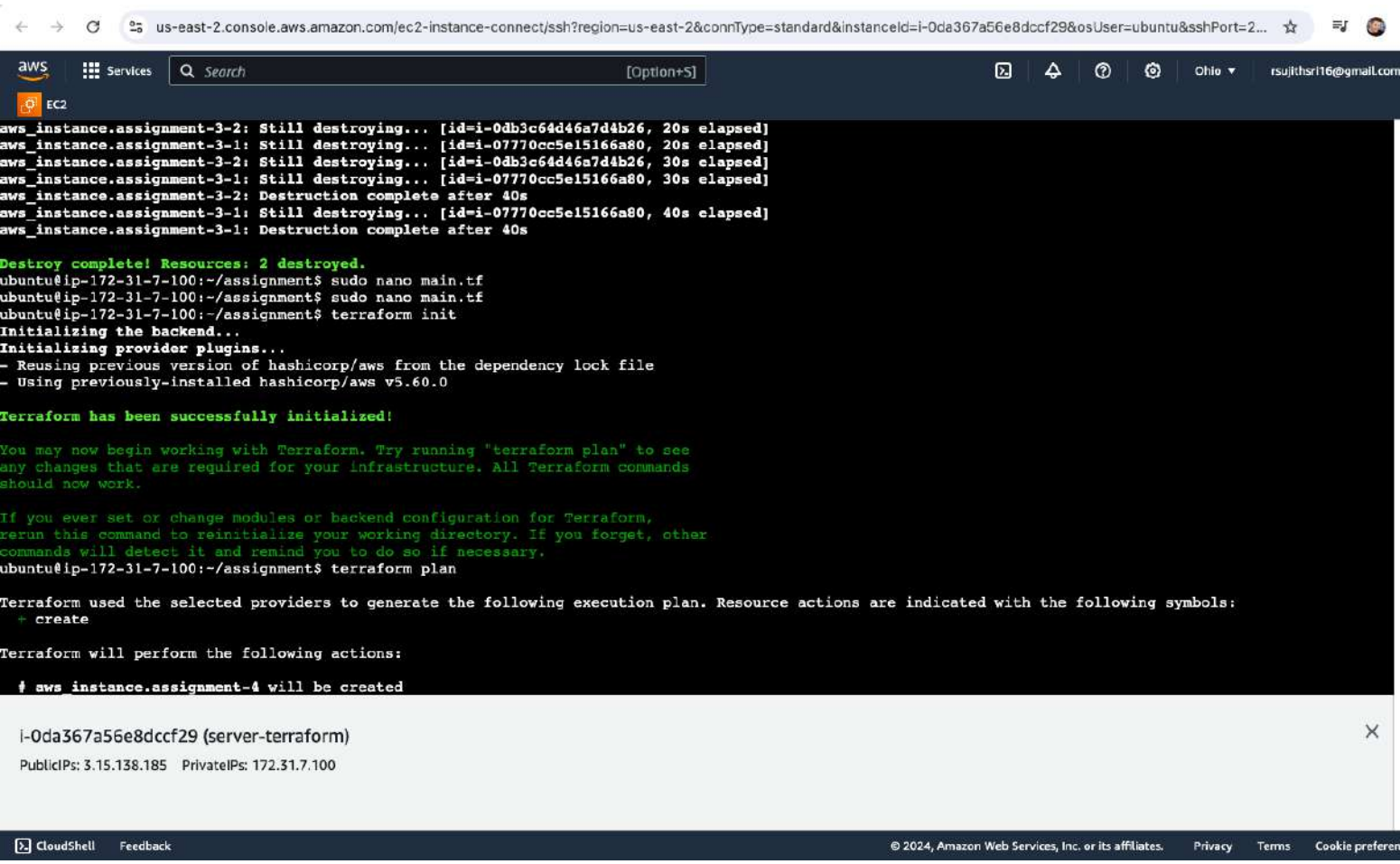
Module 8: Terraform
Assignment - 4

Tasks To Be Performed:

1. Destroy the previous deployments
2. Create a VPC with the required components using Terraform
3. Deploy an EC2 instance inside the VPC


us-east-2.console.aws.amazon.com/ec2-instance-connect/ssh?region=us-east-2&connType=standard&instanceId=i-0da367a56e8dccf29&osUser=ubuntu&sshPort=2...
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EC2
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$ sudo nano main.tf
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...
- Reusing previous version of hashicorp/aws from the dependency lock file
- Using previously-installed hashicorp/aws v5.60.0
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.
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-4 will be created
i-0da367a56e8dccf29 (server-terraform)
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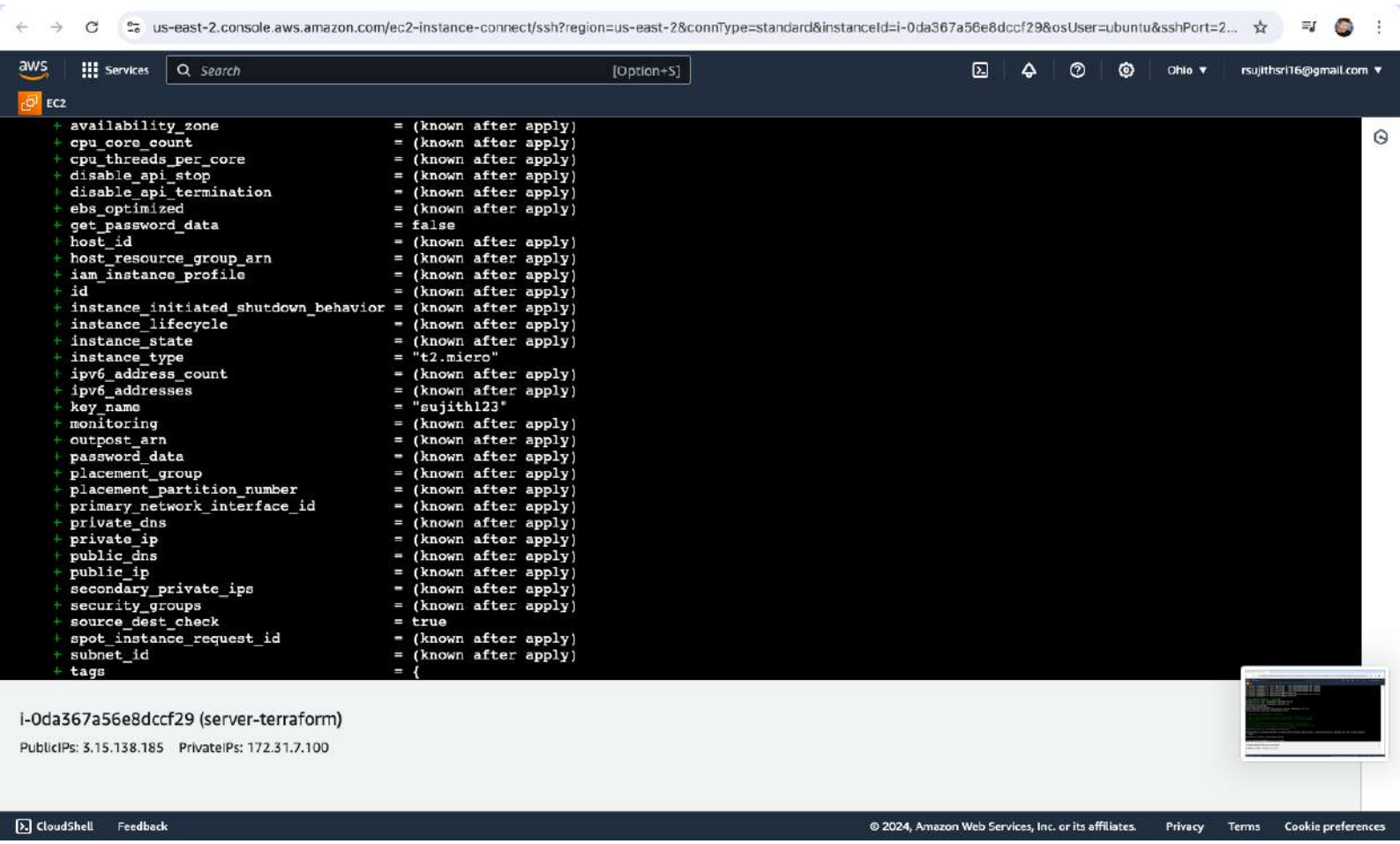
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EC2
+ availability_zone = (known after apply)
+ cpu_core_count = (known after apply)
+ cpu_threads_per_core = (known after apply)
+ disable_api_stop = (known after apply)
+ disable_api_termination = (known after apply)
+ ebs_optimized = (known after 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 = "sujith123"
+ 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 = {
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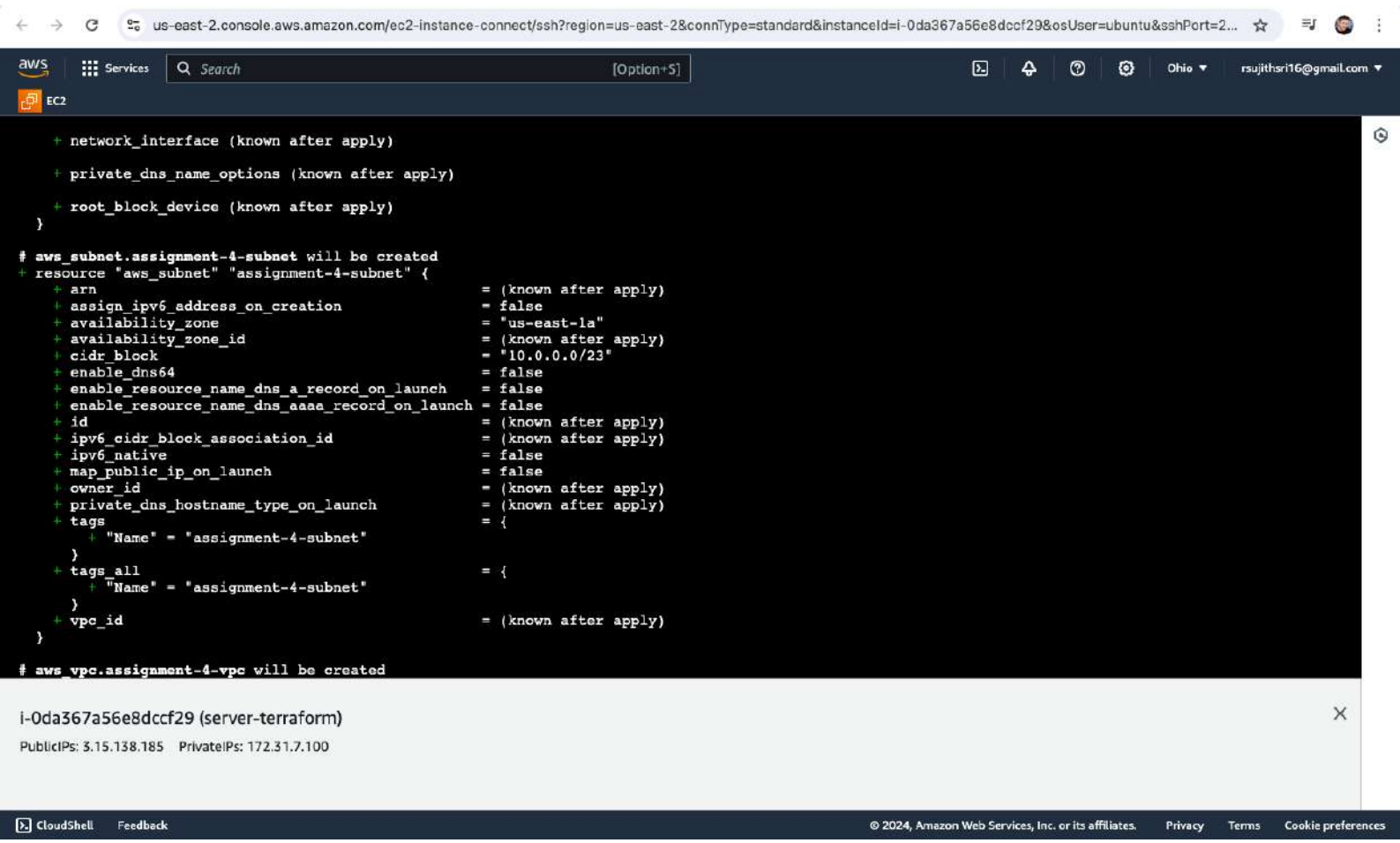
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EC2
+ network_interface (known after apply)
+ private_dns_name_options (known after apply)
+ root_block_device (known after apply)
}
# aws_subnet.assignment-4-subnet will be created
+ resource "aws_subnet" "assignment-4-subnet" {
+ arn = (known after apply)
+ assign_ipv6_address_on_creation = false
+ availability_zone = "us-east-1a"
+ availability_zone_id = (known after apply)
+ cidr_block = "10.0.0.0/23"
+ enable_dns64 = false
+ enable_resource_name_dns_a_record_on_launch = false
+ enable_resource_name_dns_aaaa_record_on_launch = false
+ id = (known after apply)
+ ipv6_cidr_block_association_id = (known after apply)
+ ipv6_native = false
+ map_public_ip_on_launch = false
+ owner_id = (known after apply)
+ private_dns_hostname_type_on_launch = (known after apply)
+ tags = {
+ "Name" = "assignment-4-subnet"
}
+ tags_all = {
+ "Name" = "assignment-4-subnet"
}
+ vpc_id = (known after apply)
}
# aws_vpc.assignment-4-vpc will be created
i-0da367a56e8dccf29 (server-terraform)
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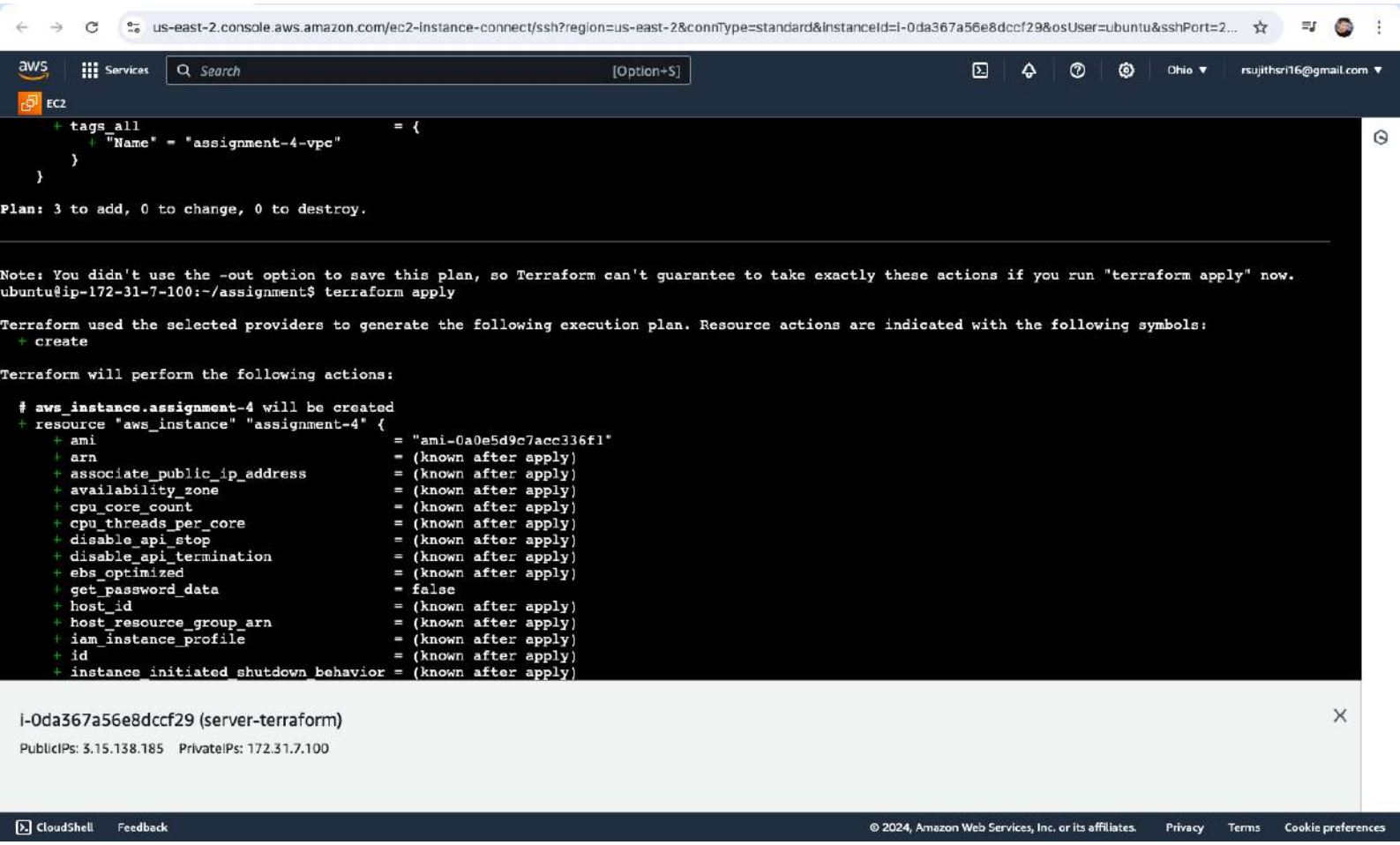
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EC2
+ tags_all = {
+ "Name" = "assignment-4-vpc"
}
}
Plan: 3 to add, 0 to change, 0 to destroy.
Note: You didn't use the -out option to save this plan, so Terraform can't guarantee to take exactly these actions if you run "terraform apply" now.
ubuntu@ip-172-31-7-100:~/assignment$ 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-4 will be created
+ resource "aws_instance" "assignment-4" {
+ 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)
i-0da367a56e8dccf29 (server-terraform)
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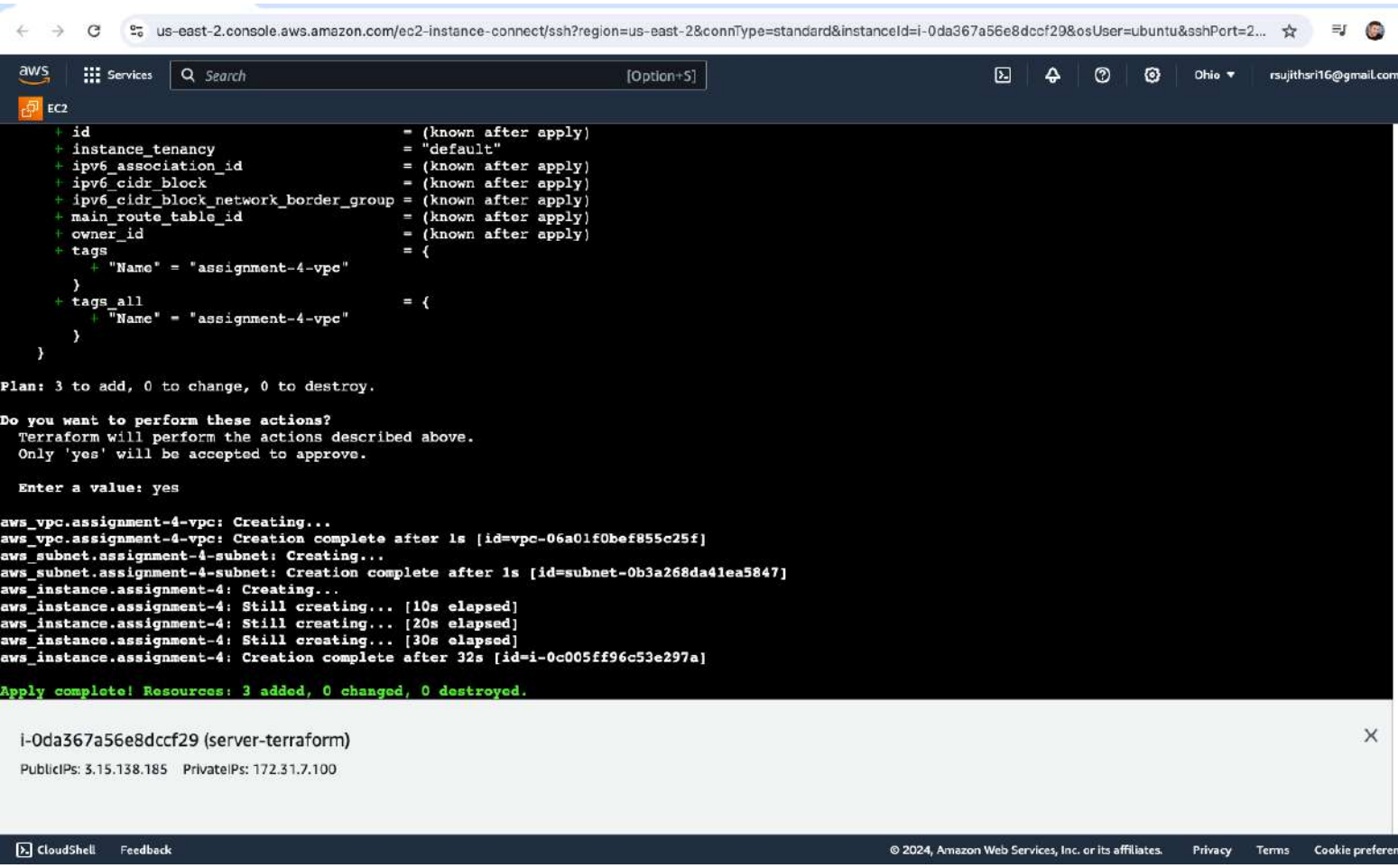
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EC2
+ id = (known after apply)
+ instance_tenancy = "default"
+ ipv6_association_id = (known after apply)
+ ipv6_cidr_block = (known after apply)
+ ipv6_cidr_block_network_border_group = (known after apply)
+ main_route_table_id = (known after apply)
+ owner_id = (known after apply)
+ tags = {
+ "Name" = "assignment-4-vpc"
}
+ tags_all = {
+ "Name" = "assignment-4-vpc"
}
}
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_vpc.assignment-4-vpc: Creating...
aws_vpc.assignment-4-vpc: Creation complete after 1s [id=vpc-06a01f0bef855c25f]
aws_subnet.assignment-4-subnet: Creating...
aws_subnet.assignment-4-subnet: Creation complete after 1s [id=subnet-0b3a268da41ea5847]
aws_instance.assignment-4: Creating...
aws_instance.assignment-4: Still creating... [10s elapsed]
aws_instance.assignment-4: Still creating... [20s elapsed]
aws_instance.assignment-4: Still creating... [30s elapsed]
aws_instance.assignment-4: Creation complete after 32s [id=i-0c005ff96c53e297a]
Apply complete! Resources: 3 added, 0 changed, 0 destroyed.
i-0da367a56e8dccf29 (server-terraform)
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