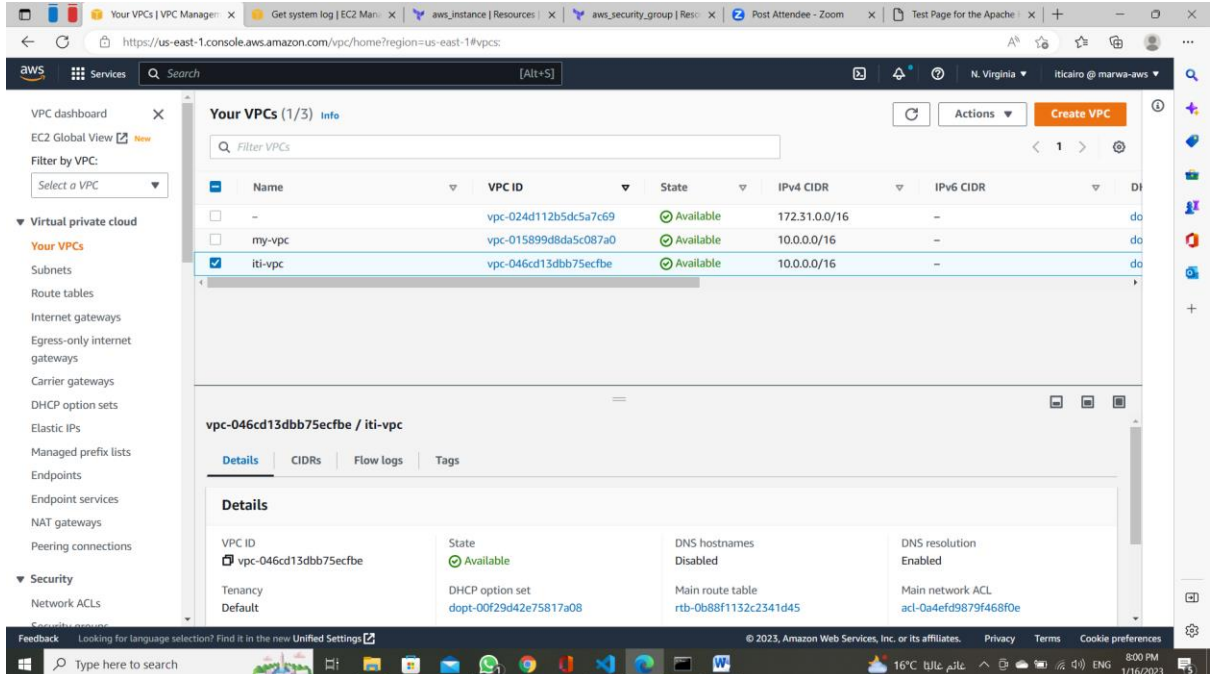


Marwa Ahmed Darwish

Lab 1:

1- Create vpc



The screenshot shows the AWS Management Console for the 'Your VPCs' page. The left sidebar contains navigation links for VPC dashboard, EC2 Global View, and various VPC components like Subnets, Route tables, Internet gateways, etc. The main content area displays a table of VPCs. The 'iti-vpc' is selected, and its details are shown below the table.

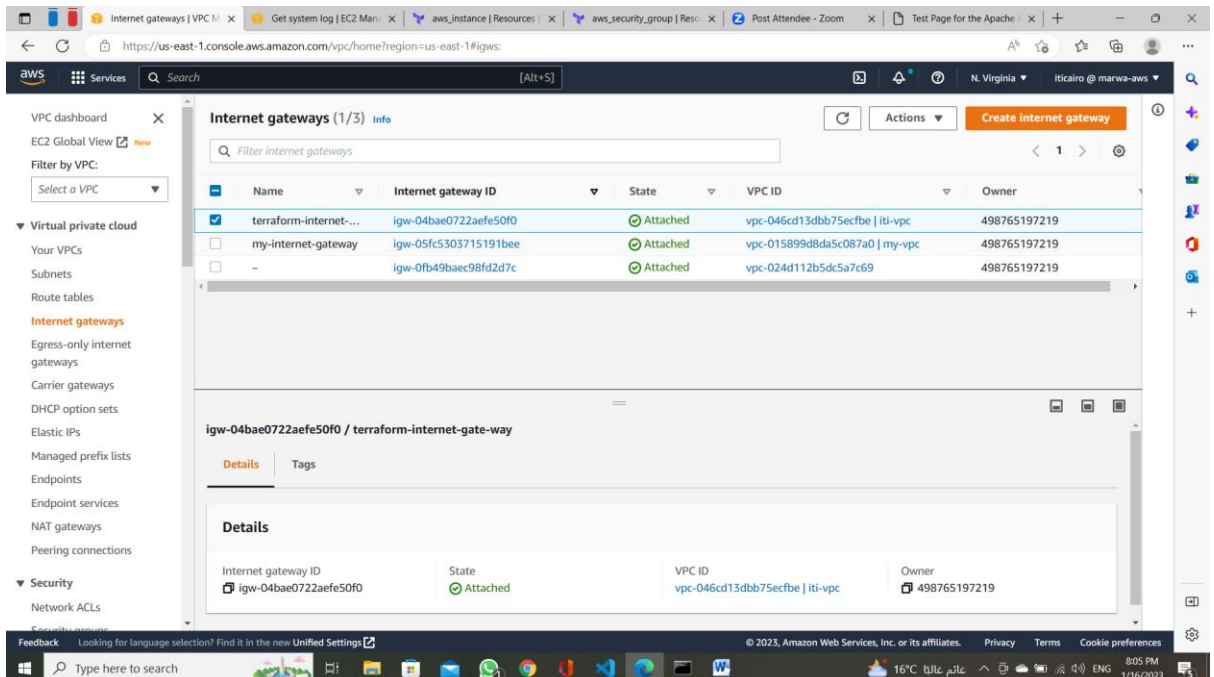
Name	VPC ID	State	IPv4 CIDR	IPv6 CIDR	DNS
-	vpc-024d112b5dc5a7c69	Available	172.31.0.0/16	-	do
my-vpc	vpc-015899d8da5c087a0	Available	10.0.0.0/16	-	do
iti-vpc	vpc-046cd13dbb75ecfbc	Available	10.0.0.0/16	-	do

vpc-046cd13dbb75ecfbc / iti-vpc

Details

VPC ID	State	DNS hostnames	DNS resolution
vpc-046cd13dbb75ecfbc	Available	Disabled	Enabled
Tenancy	DHCP option set	Main route table	Main network ACL
Default	dopt-00f29d42e75817a08	rtb-0b88f1132c2341d45	acl-0a4efd9879f468f0e

2- Create igw



The screenshot shows the AWS Management Console for the 'Internet gateways' page. The left sidebar contains navigation links for VPC dashboard, EC2 Global View, and various VPC components like Subnets, Route tables, Internet gateways, etc. The main content area displays a table of Internet gateways. The 'terraform-internet-gate-way' is selected, and its details are shown below the table.

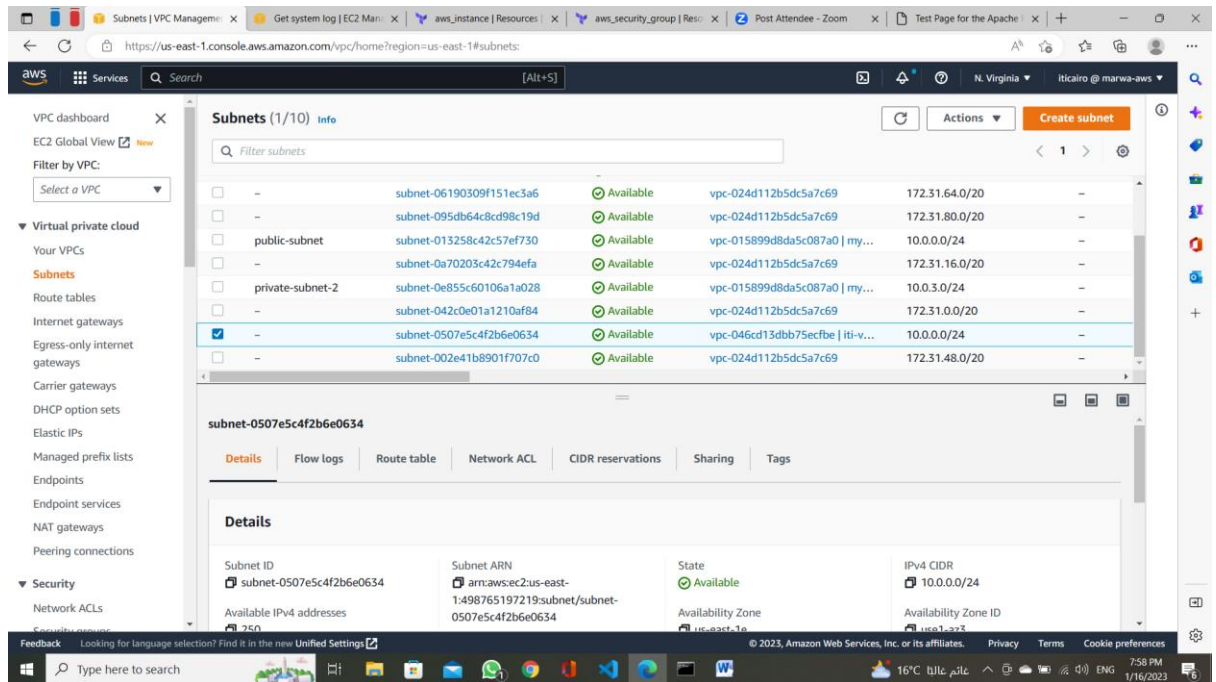
Name	Internet gateway ID	State	VPC ID	Owner
terraform-internet-...	igw-04bae0722aefe50f0	Attached	vpc-046cd13dbb75ecfbc iti-vpc	498765197219
my-internet-gateway	igw-05fc5303715191bee	Attached	vpc-015899d8da5c087a0 my-vpc	498765197219
-	igw-0fb49baec98fd2d7c	Attached	vpc-024d112b5dc5a7c69	498765197219

igw-04bae0722aefe50f0 / terraform-internet-gate-way

Details

Internet gateway ID	State	VPC ID	Owner
igw-04bae0722aefe50f0	Attached	vpc-046cd13dbb75ecfbc iti-vpc	498765197219

3- Create subnet



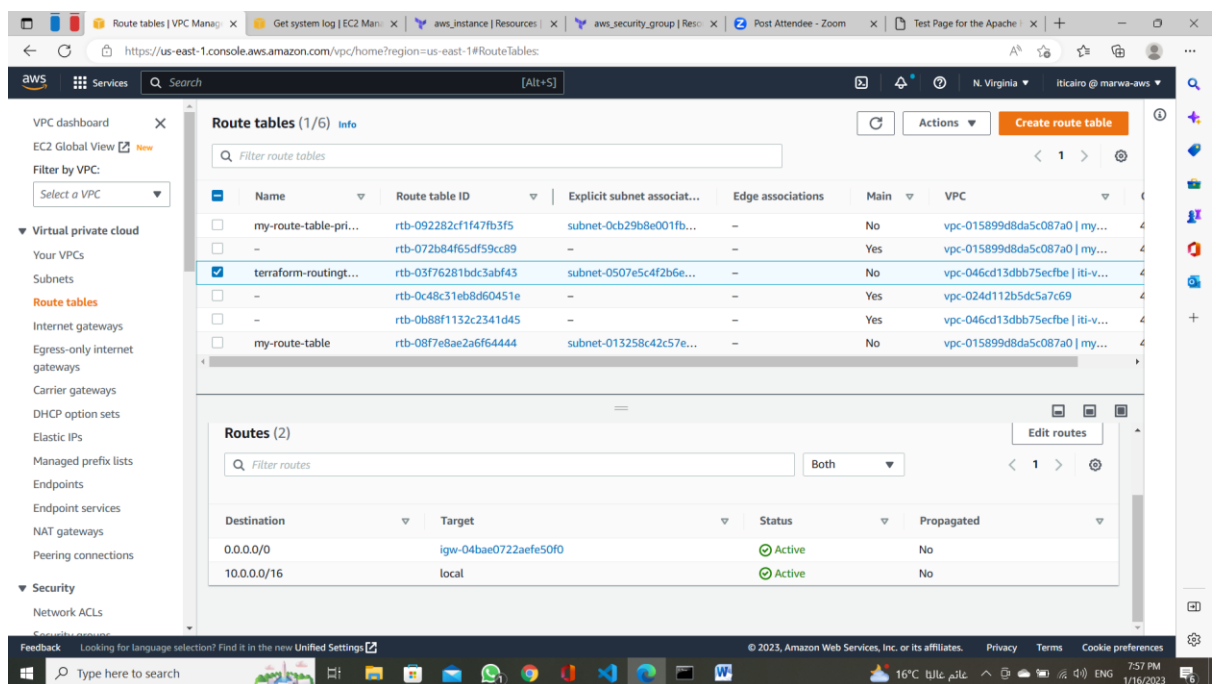
The screenshot shows the AWS Management Console interface for the 'Subnets' page. The left sidebar contains navigation links for VPC dashboard, EC2 Global View, and various VPC services. The main content area displays a list of subnets under the 'Subnets (1/10)' tab. The selected subnet, 'subnet-0507e5c4f2b6e0634', is highlighted in blue. Below the list, the 'Details' tab is active, showing the subnet's configuration.

Name	Subnet ID	State	IPV4 CIDR
subnet-06190309f151ec3a6	subnet-06190309f151ec3a6	Available	172.31.64.0/20
subnet-095db64c8cd98c19d	subnet-095db64c8cd98c19d	Available	172.31.80.0/20
public-subnet	subnet-013258c42c57ef730	Available	10.0.0.0/24
subnet-0a70203c42c794efa	subnet-0a70203c42c794efa	Available	172.31.16.0/20
private-subnet-2	subnet-0e855c60106a1a028	Available	10.0.3.0/24
subnet-042c0e01a1210af84	subnet-042c0e01a1210af84	Available	172.31.0.0/20
subnet-0507e5c4f2b6e0634	subnet-0507e5c4f2b6e0634	Available	10.0.0.0/24
subnet-002e41b8901f707c0	subnet-002e41b8901f707c0	Available	172.31.48.0/20

Details for subnet-0507e5c4f2b6e0634:

- Subnet ID: subnet-0507e5c4f2b6e0634
- Subnet ARN: arn:aws:ec2:us-east-1:498765197219:subnet/subnet-0507e5c4f2b6e0634
- State: Available
- IPV4 CIDR: 10.0.0.0/24
- Availability Zone: us-east-1a
- Available IP addresses: 250

4- Create routing table



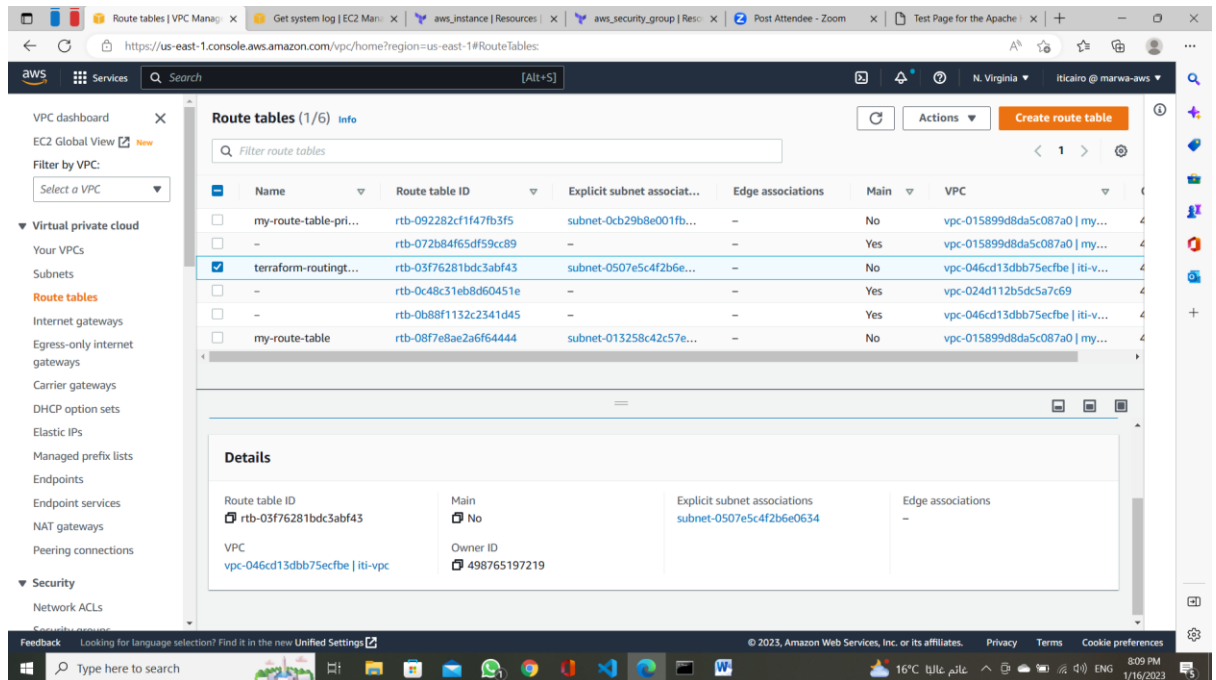
The screenshot shows the AWS Management Console interface for the 'Route tables' page. The left sidebar contains navigation links for VPC dashboard, EC2 Global View, and various VPC services. The main content area displays a list of route tables under the 'Route tables (1/6)' tab. The 'terraform-routing-table' is selected, and its details are shown below the list.

Name	Route table ID	Explicit subnet associat...	Edge associations	Main	VPC
my-route-table-pri...	rtb-092282cf1f47fb3f5	subnet-0cb29b8e001fb...	-	No	vpc-015899d8da5c087a0 my...
-	rtb-072b84f65df59cc89	-	-	Yes	vpc-015899d8da5c087a0 my...
terraform-routingt...	rtb-03f76281bd3abf43	subnet-0507e5c4f2b6e...	-	No	vpc-046cd13dbb75ecf8e iti-v...
-	rtb-0c48c31eb8d60451e	-	-	Yes	vpc-024d112b5dc5a7c69
-	rtb-0b88f1132c2341d45	-	-	Yes	vpc-046cd13dbb75ecf8e iti-v...
my-route-table	rtb-08f7e8ae2a6f64444	subnet-013258c42c57e...	-	No	vpc-015899d8da5c087a0 my...

Routes (2) for terraform-routing-table:

Destination	Target	Status	Propagated
0.0.0.0/0	igw-04bae0722aefe50f0	Active	No
10.0.0.0/16	local	Active	No

5- Attach subnet to routing table



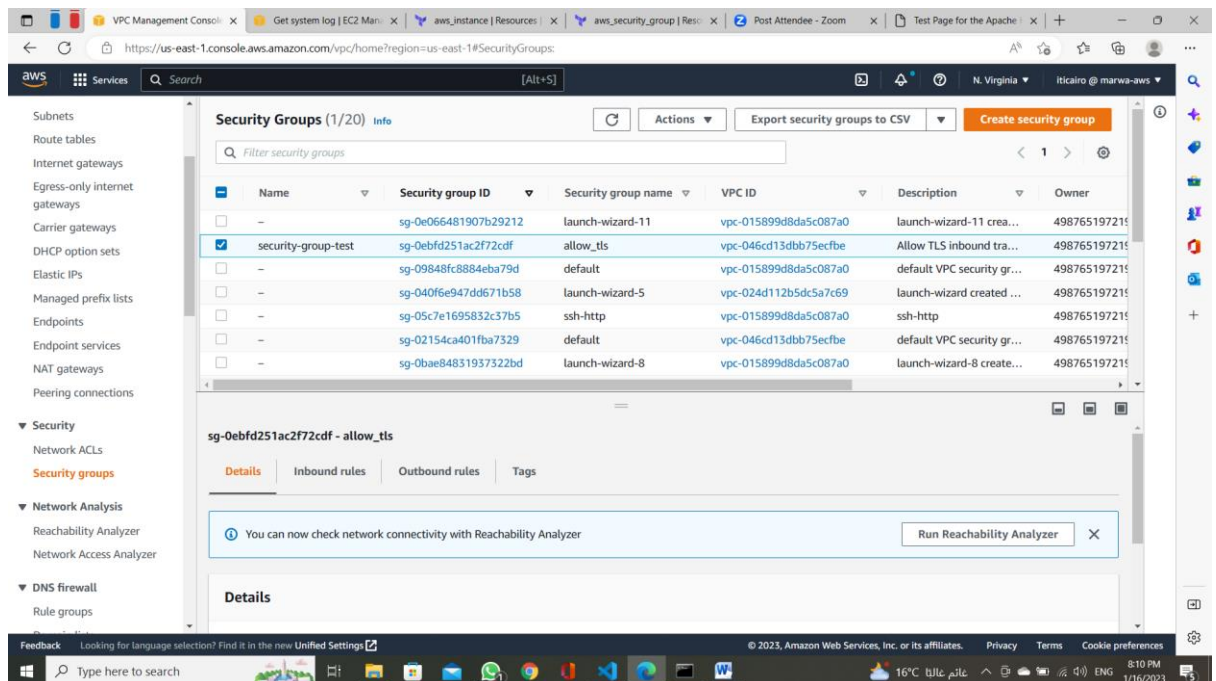
The screenshot shows the AWS VPC console with the 'Route tables' page selected. The table lists several route tables, with 'terraform-routing-table' highlighted. Below the table, the details for this route table are displayed.

Name	Route table ID	Explicit subnet associat...	Edge associations	Main	VPC
my-route-table-pri...	rtb-092282cf1f47fb3f5	subnet-0cb29b8e001fb...	-	No	vpc-015899d8da5c087a0 my...
-	rtb-072b84f65df59cc89	-	-	Yes	vpc-015899d8da5c087a0 my...
terraform-routing...	rtb-03f76281bdc3abf43	subnet-0507e5c4f2b6e...	-	No	vpc-046cd13dbb75ecfbc iti-v...
-	rtb-0c48c31eb8d60451e	-	-	Yes	vpc-024d112b5dc5a7c69
-	rtb-0b88f1132c2341d45	-	-	Yes	vpc-046cd13dbb75ecfbc iti-v...
my-route-table	rtb-08f7e8ae2a6f64444	subnet-013258c42c57e...	-	No	vpc-015899d8da5c087a0 my...

Details

Route table ID rtb-03f76281bdc3abf43	Main No	Explicit subnet associations subnet-0507e5c4f2b6e0634	Edge associations -
VPC vpc-046cd13dbb75ecfbc iti-vpc	Owner ID 498765197219		

6- Create security group



The screenshot shows the AWS VPC console with the 'Security Groups' page selected. The table lists several security groups, with 'security-group-test' highlighted. Below the table, the details for this security group are displayed.

Name	Security group ID	Security group name	VPC ID	Description	Owner
-	sg-0e066481907b29212	launch-wizard-11	vpc-015899d8da5c087a0	launch-wizard-11 crea...	498765197219
security-group-test	sg-0ebfd251ac2f72cdf	allow_tls	vpc-046cd13dbb75ecfbc	Allow TLS inbound tra...	498765197219
-	sg-09848fc8884eba79d	default	vpc-015899d8da5c087a0	default VPC security gr...	498765197219
-	sg-040f6e947dd671b58	launch-wizard-5	vpc-024d112b5dc5a7c69	launch-wizard created ...	498765197219
-	sg-05c7e1695832c37b5	ssh-http	vpc-015899d8da5c087a0	ssh-http	498765197219
-	sg-02154ca401fba7329	default	vpc-046cd13dbb75ecfbc	default VPC security gr...	498765197219
-	sg-0bae84831937322bd	launch-wizard-8	vpc-015899d8da5c087a0	launch-wizard-8 create...	498765197219

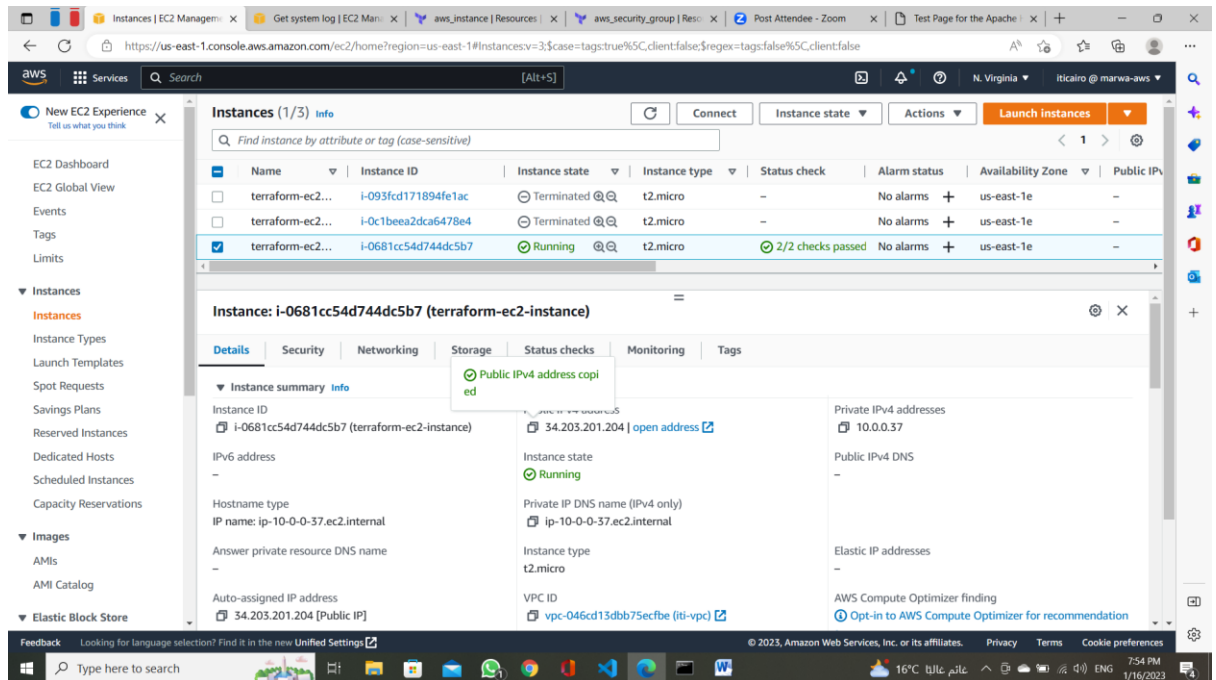
sg-0ebfd251ac2f72cdf - allow_tls

Details

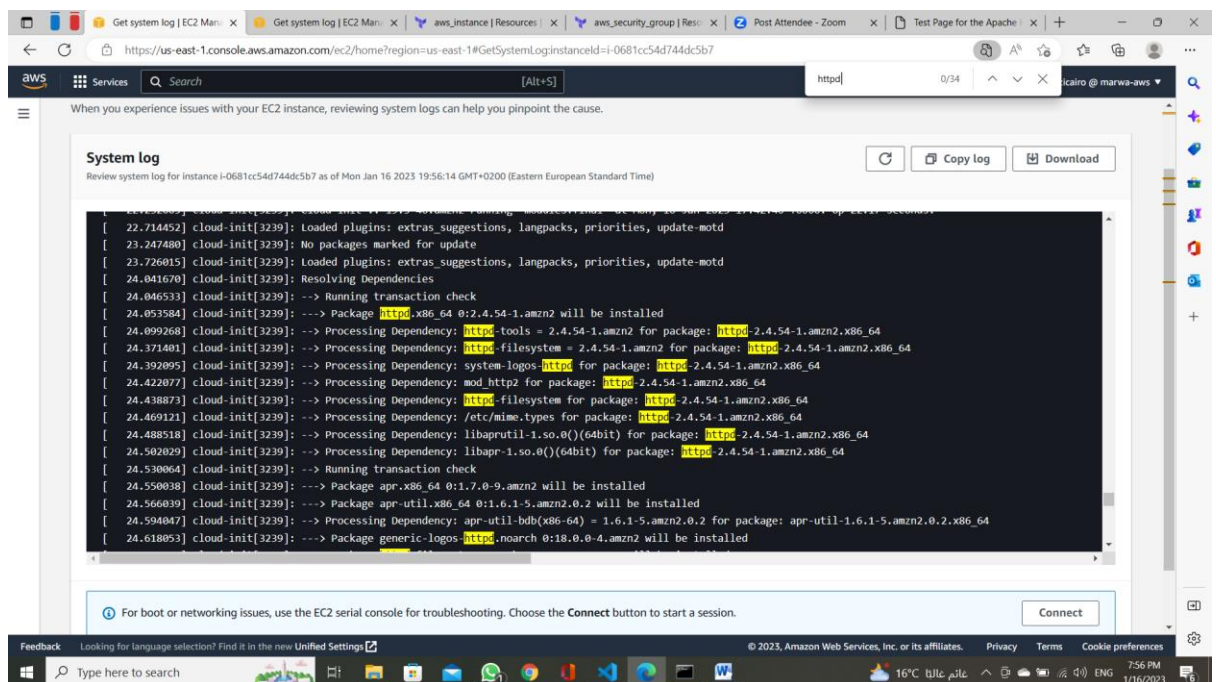
You can now check network connectivity with Reachability Analyzer

Run Reachability Analyzer

7- Create ec2



8- Logs



9- Public ip in browser

