

ASSIGNMENT-2

CREATING VIRTUAL PRIVATE CLOUD(VPC)

Subscription Details | StackRoute x VPC Management Console x +

us-east-1.console.aws.amazon.com/vpc/home?region=us-east-1#CreateVpc:createMode=vpcOnly

Services Search for services, features, blogs, docs, and more [Alt+S]

N. Virginia gourab.routray@globallogic.com @ 0671-7044-8639

VPC settings

Resources to create [Info](#)
Create only the VPC resource or the VPC and other networking resources.

☒ VPC only ☐ VPC and more

Name tag - optional
Creates a tag with a key of 'Name' and a value that you specify.

chinese

IPv4 CIDR block [Info](#)
☒ IPv4 CIDR manual input
☐ IPAM-allocated IPv4 CIDR block

IPv4 CIDR
33.0.0.0/24

IPv6 CIDR block [Info](#)
☐ No IPv6 CIDR block
☐ IPAM-allocated IPv6 CIDR block
☒ Amazon-provided IPv6 CIDR block

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Subscription Details | StackRoute x VPC Management Console x +

us-east-1.console.aws.amazon.com/vpc/home?region=us-east-1#VpcDetails:VpcId=vpc-00ea57c8b131e46a0

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New VPC Experience Tell us what you think

You successfully created vpc-00ea57c8b131e46a0 / chinese

VPC > Your VPCs > vpc-00ea57c8b131e46a0

vpc-00ea57c8b131e46a0 / chinese

Actions

Details [Info](#)

VPC ID vpc-00ea57c8b131e46a0	State Available	DNS hostnames Disabled	DNS resolution Enabled
Tenancy Default	DHCP options set dopt-0c874ad9547e0c1d5	Main route table rtb-05258245a32022260	Main network ACL acl-0c4b3b75c8f1aaa4c
Default VPC No	IPv4 CIDR 33.0.0.0/24	IPv6 pool Amazon Associated	IPv6 CIDR (Network border group) 2600:1f18:227e:f400::/56 (us-east-1) Associated
Route 53 Resolver DNS Firewall rule groups	Owner ID 067170448639		

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SUBNETS CREATED

The screenshot shows the AWS VPC Management Console in the us-east-1 region. A green notification banner at the top states: "You have successfully created 1 subnet: subnet-0558dff22a7cb4607". The left sidebar contains navigation links for VPC dashboard, EC2 Global View, and various VPC resources. The main content area displays a table of subnets under the heading "Subnets (4) Info".

	Name	Subnet ID	State	VPC	IPv4 CIDR
<input type="checkbox"/>	mysub4	subnet-0558dff22a7cb4607	Available	vpc-00ea57c8b131e46a0 chi...	33.0.0.240/28
<input type="checkbox"/>	mysub2	subnet-005b7cef257638728	Available	vpc-00ea57c8b131e46a0 chi...	33.0.0.64/28
<input type="checkbox"/>	mysub1	subnet-040a588593c5dbd45	Available	vpc-00ea57c8b131e46a0 chi...	33.0.0.0/28
<input type="checkbox"/>	mysub3	subnet-0490ba22c9d0cafd3	Available	vpc-00ea57c8b131e46a0 chi...	33.0.0.128/28

CONFIGURING EC-2 INSTANCE

The screenshot shows the "Step 3: Configure Instance Details" of the AWS Launch Instance Wizard. The "Purchasing option" is set to "On-Demand Instance". The "Network" dropdown is set to "vpc-00ea57c8b131e46a0 | chinese". The "Subnet" dropdown is open, showing a list of subnets. The "Auto-assign Public IP" option is selected. The "Auto-assign IPv6 IP" option is not selected. The "Hostname type" is set to "Use subnet setting (IP name)". The "DNS Hostname" options are not selected. The "Review and Launch" button is highlighted.

Step 3: Configure Instance Details

Purchasing option ☐ Request Spot instances

Network [Create new VPC](#)

Subnet [Create new subnet](#)

Auto-assign Public IP ☒

Auto-assign IPv6 IP ☐

Hostname type

DNS Hostname ☐ Enable IP name (IPv4 (A record) DNS requests)
☐ Enable resource-based IPv4 (A record) DNS requests
☐ Enable resource-based IPv6 (AAAA record) DNS requests

[Cancel](#) [Previous](#) [Review and Launch](#) [Next: Add Storage](#)

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The screenshot shows the AWS Management Console for the us-east-1 region. The left sidebar contains navigation links for EC2 Dashboard, EC2 Global View, Events, Tags, Limits, and a dropdown for Instances. The main content area displays the 'Instances (1) Info' page. A search bar contains the instance ID 'i-03b0094f2b602bd4f'. Below the search bar, a table lists the instance details:

Name	Instance ID	Instance state	Instance type	Status check	Alarm status
Gourabprivate	i-03b0094f2b602bd4f	Pending	t2.micro	-	No alarms

Below the table, a modal window titled 'Select an instance' is displayed. The bottom of the console shows the Windows taskbar with the time 7:32 PM on 6/18/2022.

EC-2 INSTANCES

The screenshot shows the AWS Management Console for the us-east-1 region. The left sidebar contains navigation links for EC2 Dashboard, EC2 Global View, Events, Tags, Limits, and a dropdown for Instances. The main content area displays the 'Instances (1/2) Info' page. A search bar is empty. Below the search bar, a table lists the instance details:

Name	Instance ID	Instance state	Instance type	Status check	Alarm status
Gourabprivate	i-03b0094f2b602bd4f	Running	t2.micro	2/2 checks passed	No alarms
Gourab	i-03764bf79fc6162bf	Running	t2.micro	-	No alarms

Below the table, a modal window titled 'Instance: i-03764bf79fc6162bf (Gourab)' is displayed. The modal shows the 'Details' tab with the following information:

- Instance ID: i-03764bf79fc6162bf (Gourab)
- Public IPv4 address: 34.234.94.244 | [open address](#)
- Private IPv4 addresses: 33.0.0.77
- IPv6 address: -
- Instance state: Running
- Public IPv4 DNS: -

The bottom of the console shows the Windows taskbar with the time 7:41 PM on 6/18/2022.

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CANNOT ENTER INTO INSTANCE AS THERE IS NO INTERNET GATEWAY & ROUTE TABLE

The screenshot shows the AWS Management Console for the us-east-1 region. A PuTTY window is open, but it is black, indicating a connection failure. The EC2 instance details for 'i-03764bf79fc6162bf' (Gourab) are visible. The instance is a t2.micro type, in a 'Running' state, with 2/2 checks passed. The public IPv4 address is 34.234.94.244. The instance summary shows the instance is running, but the networking details (not fully visible) indicate the lack of an internet gateway and route table, which is why the connection fails.

Instance type	Status check	Alarm status
t2.micro	2/2 checks passed	No alarms
t2.micro	-	No alarms

Instance summary:

- Instance ID: i-03764bf79fc6162bf (Gourab)
- Public IPv4 address: 34.234.94.244 | [open address](#)
- IPv6 address: 33.0.0.77
- Instance state: Running

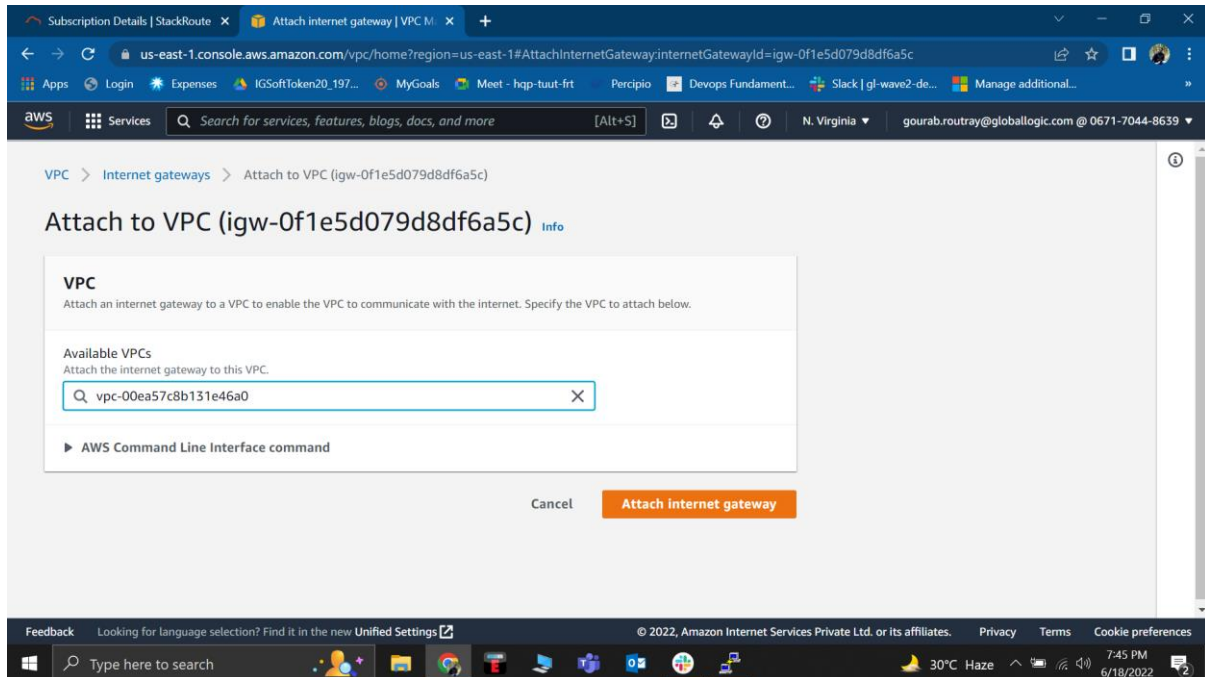
INTERNET GATEWAYS

The screenshot shows the AWS Management Console for the us-east-1 region, specifically the Internet Gateways page. Two internet gateways are listed: 'igw-06707f41d528978b4' (Attached) and 'igw-0f1e5d079d8df6a5c' (Detached). The 'personalgateway' is also listed as detached. The console prompts the user to 'Select an internet gateway above'.

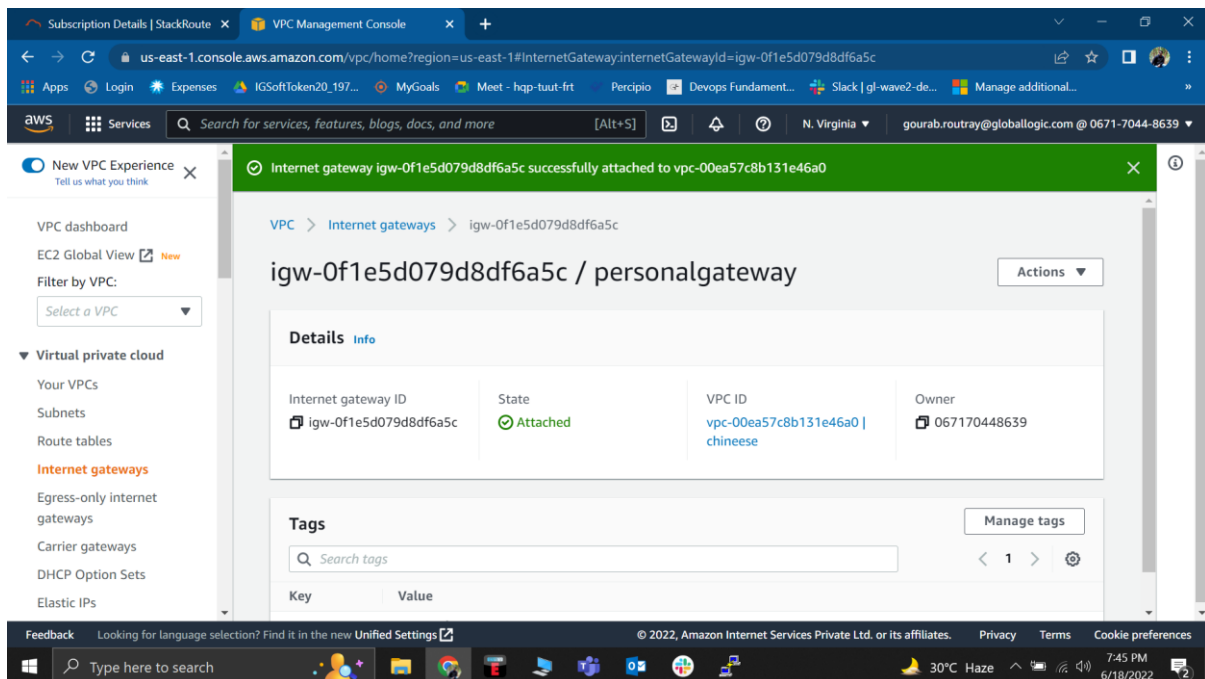
Name	Internet gateway ID	State	VPC ID
-	igw-06707f41d528978b4	Attached	vpc-0e3624ce8523033b8
personalgateway	igw-0f1e5d079d8df6a5c	Detached	-

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ATTACHED INTERNET GATEWAY WITH VPC



INTERNET GATEWAY CONFIGURED



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ROUTE TBLE CONFIGURED

The screenshot shows the 'Create Route Table' page in the AWS VPC Management Console. The browser address bar indicates the URL: `us-east-1.console.aws.amazon.com/vpc/home?region=us-east-1#CreateRouteTable`. The page is titled 'Route table settings' and contains the following fields:

- Name - optional:** A text input field with the value 'routetableper'. Below it, a note states: 'Create a tag with a key of 'Name' and a value that you specify.'
- VPC:** A dropdown menu showing 'vpc-00ea57c8b131e46a0 (chinese)'.
- Tags:** A section for adding tags. It includes a 'Key' field with 'Name' and a 'Value - optional' field with 'routetableper'. There is a 'Remove' button and an 'Add new tag' button.

The bottom of the screenshot shows the Windows taskbar with the search bar, taskbar icons, and system tray showing the date and time as 7:46 PM on 6/18/2022.

The screenshot shows the 'Route table details' page in the AWS VPC Management Console. The browser address bar indicates the URL: `us-east-1.console.aws.amazon.com/vpc/home?region=us-east-1#RouteTableDetails:RouteTableId=rtb-033814352d9602fac`. A green notification banner at the top states: 'Route table rtb-033814352d9602fac | routetableper was created successfully.'

The page title is 'rtb-033814352d9602fac / routetableper'. Below the title, there is a button 'Run Reachability Analyzer' and a message: 'You can now check network connectivity with Reachability Analyzer'.

The 'Details' section shows the following information:

Details			
Route table ID	Main	Explicit subnet associations	Edge associations
rtb-033814352d9602fac	No	-	-
VPC	Owner ID		
vpc-00ea57c8b131e46a0 chinese	067170448639		

The bottom of the screenshot shows the Windows taskbar with the search bar, taskbar icons, and system tray showing the date and time as 7:46 PM on 6/18/2022.

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ROUTE TABLE CONFIGURED WITH INTERNET GATEWAY

The screenshot shows the AWS Management Console interface for editing a route table. The browser address bar indicates the URL: `us-east-1.console.aws.amazon.com/vpc/home?region=us-east-1#EditRoutes:RouteTableId=rtb-05258245a32022260`. The page title is "Edit routes".

Destination	Target	Status	Propagated
2600:1f18:227e:f400::/56	local	Active	No
33.0.0.0/24	local	Active	No
0.0.0.0/0	igw-0f1e5d079d8df6a5c	-	No

Buttons at the bottom: Add route, Cancel, Preview, Save changes.

ABLE TO ACCESS EC-2 INSTANCE

The screenshot shows the AWS Management Console interface for an EC2 instance. The browser address bar indicates the URL: `us-east-1.console.aws.amazon.com/ec2/v2/home?region=us-east-1#Instances:instanceState=running`. The page title is "Instances | EC2 Management Console".

A PuTTY Security Alert dialog box is displayed in the foreground, warning that the host key is not cached for the server. The dialog text reads:

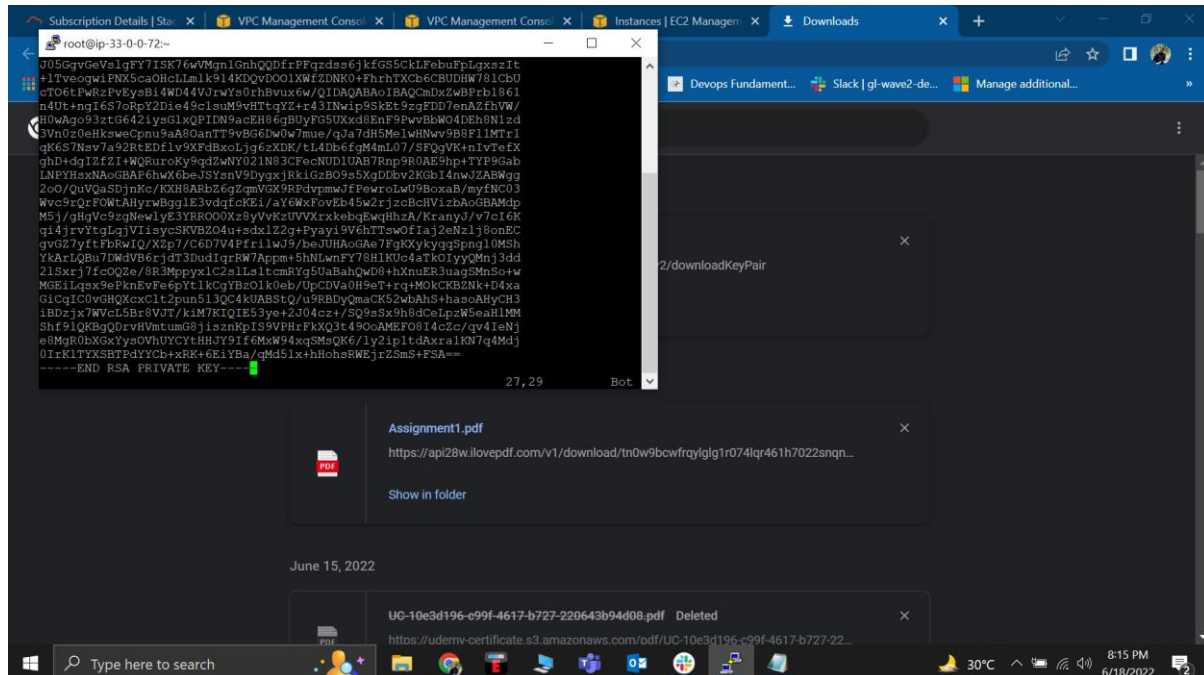
The host key is not cached for this server: 34.234.94.244 (port 22). You have no guarantee that the server is the computer you think it is. The server's ssh-ed25519 key fingerprint is: ssh-ed25519 255 SHA256:NTInqNoamMBk0BVPail.s+LLCNj2kv9ISCh/6uuxMwM. If you trust this host, press "Accept" to add the key to PuTTY's cache and carry on connecting. If you want to carry on connecting just once, without adding the key to the cache, press "Connect Once". If you do not trust this host, press "Cancel" to abandon the connection.

Buttons in the dialog: Help, More info..., Accept, Connect Once, Cancel.

The background shows the EC2 instance details for instance ID `i-03764bf79fc6162bf` (Gourab). The instance is a `t2.micro` type, in a `Running` state, with a public IP address of `34.234.94.244`.

ASSIGNMENT-2

LOGGING INTO ANOTHER EC-2 INSTANCE USING CERTIFICATE



LOGGED INTO ANOTHER EC-2 INSTANCE

