

Task 2

1- Create VPC

Your VPCs (1/2) Info

Last updated less than a minute ago

Actions

Create VPC

Name	VPC ID	State	IPv4 CIDR	IPv6 CIDR	DHCP option set	Main route table
yatt-vpc	vpc-0ab60e4937275f267	Available	10.1.0.0/16	-	dopt-0c7aa65913755a...	rtb-06d89bbe2fcc7d32d
-	vpc-037ed837d88d00ac4	Available	172.31.0.0/16	-	dopt-0c7aa65913755a...	rtb-0bfa9247e8865971d

vpc-0ab60e4937275f267 / yatt-vpc

Details	Resource map	CIDRs	Flow logs	Tags	Integrations
<div><div>VPC ID</div><div>vpc-0ab60e4937275f267</div><div>Tenancy</div><div>Default</div><div>Default VPC</div><div>No</div><div>Network Address Usage metrics</div><div>Disabled</div></div> <div><div>State</div><div>Available</div><div>DHCP option set</div><div>dopt-0c7aa65913755a586</div><div>IPv4 CIDR</div><div>10.1.0.0/16</div><div>Route 53 Resolver DNS Firewall rule groups</div><div>-</div></div> <div><div>DNS hostnames</div><div>Disabled</div><div>Main route table</div><div>rtb-06d89bbe2fcc7d32d</div><div>IPv6 pool</div><div>-</div><div>Owner ID</div><div>034362032911</div></div> <div><div>DNS resolution</div><div>Enabled</div><div>Main network ACL</div><div>acl-0dd418749d4f9ff1e</div><div>IPv6 CIDR (Network border group)</div><div>-</div></div>					

2- Create internet gateway then attach it with VPC you created

Internet gateways (1/2) Info

Actions

Create internet gateway

Name	Internet gateway ID	State	VPC ID	Owner
-	igw-022eca761cfcb09c9	Attached	vpc-037ed837d88d00ac4	034362032911
yatt-igw	igw-0a05df96f23f11fd9	Attached	vpc-0ab60e4937275f267 yatt-vpc	034362032911

igw-0a05df96f23f11fd9 / yatt-igw

Details	Tags
<div><div>Internet gateway ID</div><div>igw-0a05df96f23f11fd9</div><div>State</div><div>Attached</div><div>VPC ID</div><div>vpc-0ab60e4937275f267 yatt-vpc</div><div>Owner</div><div>034362032911</div></div>	

Task 2

3- Create route table in your VPC and connect it with igw you created to make this route table able to access or connect with internet

Route tables (1/3) Info

Last updated 33 minutes ago

Actions

Create route table

Find resources by attribute or tag

< 1 >

	Name	Route table ID	Explicit subnet associ...	Edge associations	Main	VPC	Owner ID
<input type="checkbox"/>	-	rtb-06d89bbe2fcc7d32d	-	-	Yes	vpc-0ab60e4937275f267 yatt...	034362032911
<input type="checkbox"/>	-	rtb-0bfa9247e8865971d	-	-	Yes	vpc-037ed837d88d00ac4	034362032911
<input checked="" type="checkbox"/>	public-route-tablee	rtb-072a0e798ef1fd78b	subnet-0ba2a17ef104dbf...	-	No	vpc-0ab60e4937275f267 yatt...	034362032911

rtb-072a0e798ef1fd78b / public-route-tablee

DetailsRoutesSubnet associationsEdge associationsRoute propagationTags

Details

Route table ID
rtb-072a0e798ef1fd78b

VPC
vpc-0ab60e4937275f267 | yatt-vpc

Main
No

Owner ID
034362032911

Explicit subnet associations
subnet-0ba2a17ef104dbf69 / my-public-subnett

Edge associations
-

Route tables (1/3) Info

Last updated 33 minutes ago

Actions

Create route table

Find resources by attribute or tag

< 1 >

	Name	Route table ID	Explicit subnet associ...	Edge associations	Main	VPC	Owner ID
<input type="checkbox"/>	-	rtb-06d89bbe2fcc7d32d	-	-	Yes	vpc-0ab60e4937275f267 yatt...	034362032911
<input type="checkbox"/>	-	rtb-0bfa9247e8865971d	-	-	Yes	vpc-037ed837d88d00ac4	034362032911
<input checked="" type="checkbox"/>	public-route-tablee	rtb-072a0e798ef1fd78b	subnet-0ba2a17ef104dbf...	-	No	vpc-0ab60e4937275f267 yatt...	034362032911

rtb-072a0e798ef1fd78b / public-route-tablee

DetailsRoutesSubnet associationsEdge associationsRoute propagationTags

Routes (2)

BothEdit routes

Filter routes

< 1 >

Destination	Target	Status	Propagated
0.0.0.0/0	lgw-0a05df96f23f11fd9	Active	No
10.1.0.0/16	local	Active	No

Task 2

4- Create a public subnet inside the VPC you created and connect it with the route table you created

Subnets (1/8) Info

Last updated 4 minutes ago

Actions

Create subnet

Find resources by attribute or tag

	Name	Subnet ID	State	VPC	IPv4 CIDR	IPv6 CIDR	IPv6 CIDR asso
<input type="checkbox"/>	-	subnet-0783023c6e2aa2437	Available	vpc-037ed837d88d00ac4	172.31.0.0/20	-	-
<input type="checkbox"/>	-	subnet-060c392c39d3a27bc	Available	vpc-037ed837d88d00ac4	172.31.64.0/20	-	-
<input type="checkbox"/>	-	subnet-0dde8bbc5265676f5	Available	vpc-037ed837d88d00ac4	172.31.48.0/20	-	-
<input type="checkbox"/>	-	subnet-01cff1e03f35ed837	Available	vpc-037ed837d88d00ac4	172.31.80.0/20	-	-
<input type="checkbox"/>	-	subnet-092d93e93ad416f93	Available	vpc-037ed837d88d00ac4	172.31.16.0/20	-	-
<input checked="" type="checkbox"/>	my-public-subnett	subnet-0ba2a17ef104dbf69	Available	vpc-0ab60e4937275f267 yatt...	10.1.0.0/24	-	-

Details

Subnet ID

subnet-0ba2a17ef104dbf69

Available IPv4 addresses

250

Availability Zone ID

use1-az1

Network ACL

acl-0dd418749d4f9ff1e

Auto-assign customer-owned IPv4 address

No

IPv6 CIDR reservations

-

Resource name DNS AAAA record

Disabled

Subnet ARN

arn:aws:ec2:us-east-1:034362032911:subnet/subnet-0ba2a17ef104dbf69

IPv6 CIDR

-

Network border group

us-east-1

Default subnet

No

Customer-owned IPv4 pool

-

IPv6-only

No

DNS64

Disabled

State

Available

IPv6 CIDR association ID

-

VPC

vpc-0ab60e4937275f267 | yatt-vpc

Auto-assign public IPv4 address

No

Outpost ID

-

Hostname type

IP name

Owner

034362032911

IPv4 CIDR

10.1.0.0/24

Availability Zone

us-east-1b

Route table

rtb-072a0e798ef1fd78b | public-route-tablee

Auto-assign IPv6 address

No

IPv4 CIDR reservations

-

Resource name DNS A record

Disabled

5- Create private subnet inside the VPC you created

Subnets (1/8) Info

Last updated 11 minutes ago

Actions

Create subnet

Find resources by attribute or tag

	Name	Subnet ID	State	VPC	IPv4 CIDR	IPv6 CIDR	IPv6 CIDR asso
<input type="checkbox"/>	-	subnet-0dde8bbc5265676f5	Available	vpc-037ed837d88d00ac4	172.31.48.0/20	-	-
<input type="checkbox"/>	-	subnet-01cff1e03f35ed837	Available	vpc-037ed837d88d00ac4	172.31.80.0/20	-	-
<input type="checkbox"/>	-	subnet-092d93e93ad416f93	Available	vpc-037ed837d88d00ac4	172.31.16.0/20	-	-
<input type="checkbox"/>	my-public-subnett	subnet-0ba2a17ef104dbf69	Available	vpc-0ab60e4937275f267 yatt...	10.1.0.0/24	-	-
<input type="checkbox"/>	-	subnet-02dfc5ef3e90577f0	Available	vpc-037ed837d88d00ac4	172.31.32.0/20	-	-
<input checked="" type="checkbox"/>	my-private-subnett	subnet-0bf2d1bd51f0fe7cc	Available	vpc-0ab60e4937275f267 yatt...	10.1.1.0/24	-	-

Details

Subnet ID

subnet-0bf2d1bd51f0fe7cc

Available IPv4 addresses

250

Availability Zone ID

use1-az1

Network ACL

acl-0dd418749d4f9ff1e

Auto-assign customer-owned IPv4 address

No

IPv6 CIDR reservations

-

Resource name DNS AAAA record

Disabled

Subnet ARN

arn:aws:ec2:us-east-1:034362032911:subnet/subnet-0bf2d1bd51f0fe7cc

IPv6 CIDR

-

Network border group

us-east-1

Default subnet

No

Customer-owned IPv4 pool

-

IPv6-only

No

DNS64

Disabled

State

Available

IPv6 CIDR association ID

-

VPC

vpc-0ab60e4937275f267 | yatt-vpc

Auto-assign public IPv4 address

No

Outpost ID

-

Hostname type

IP name

Owner

034362032911

IPv4 CIDR

10.1.1.0/24

Availability Zone

us-east-1b

Route table

rtb-06d89bbe2fcc7d32d

Auto-assign IPv6 address

No

IPv4 CIDR reservations

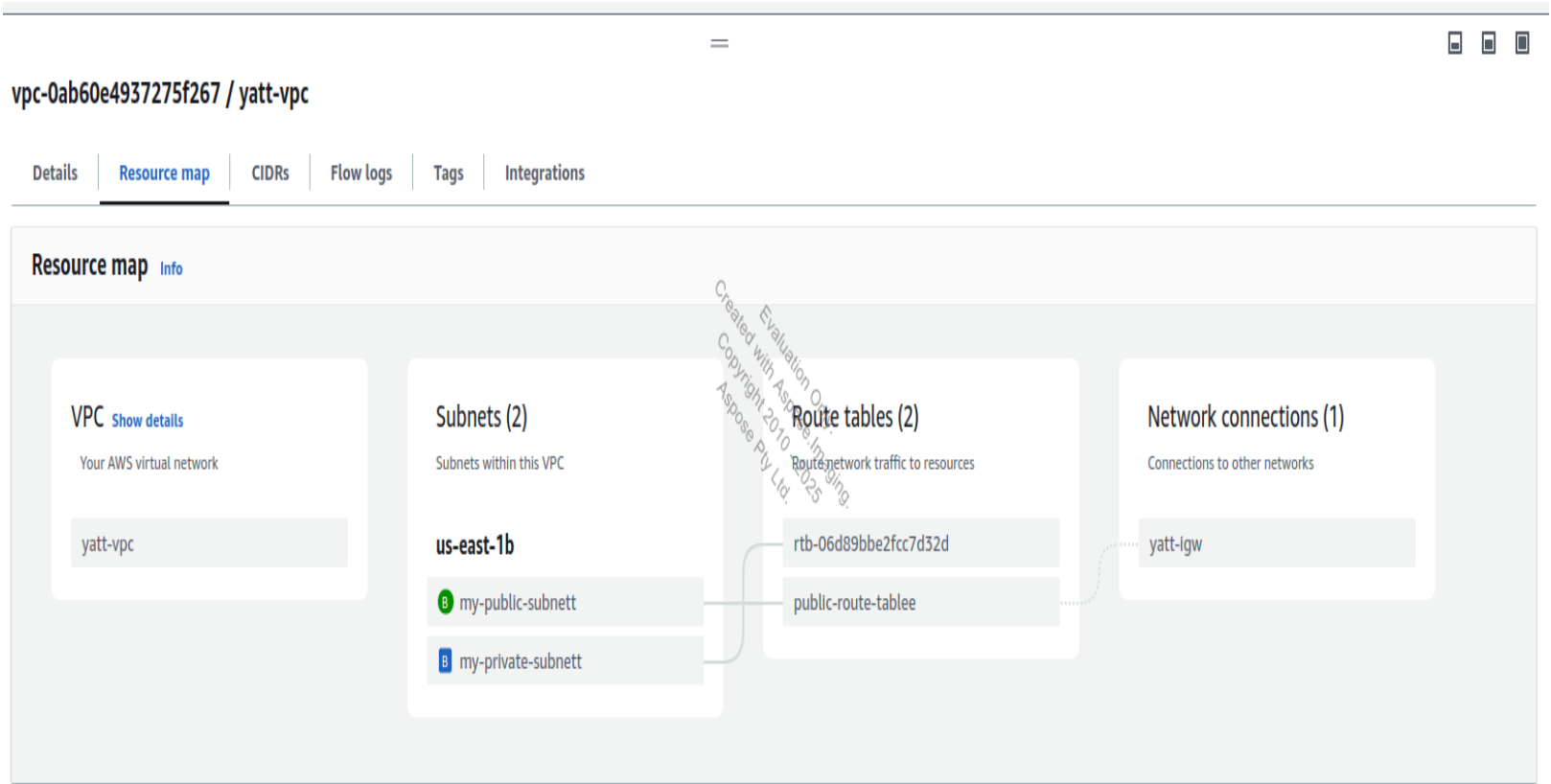
-

Resource name DNS A record

Disabled

Task 2

6- Final result



Task 2

7- Create private ec2 instance inside the private subnet

Instances (1/2) Info

Last updated 6 minutes ago

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	Public IPv4 DNS	Public IPv4 ...
<input checked="" type="checkbox"/>	privatte-ec2	i-0781912f62314dad1	Running	t2.micro	2/2 checks passec	View alarms +	us-east-1b	-	-
<input type="checkbox"/>	public-ec2	i-096aab7433c342800	Running	t2.micro	2/2 checks passec	View alarms +	us-east-1b	-	18.215.126.23

i-0781912f62314dad1 (privatte-ec2)

Details

Status and alarms

Monitoring

Security

Networking

Storage

Tags

▼ Instance summary Info

Instance ID

i-0781912f62314dad1 (privatte-ec2)

IPv6 address

-

Hostname type

IP name: ip-10-1-1-139.ec2.internal

Answer private resource DNS name

-

Auto-assigned IP address

-

IAM Role

-

IMDSv2

Required

Public IPv4 address

-

Instance state

Running

Private IP DNS name (IPv4 only)

ip-10-1-1-139.ec2.internal

Instance type

t2.micro

VPC ID

vpc-0ab60e4937275f267 (yatt-vpc)

Subnet ID

subnet-0bf2d1bd51f0fe7cc (my-private-subnett)

Instance ARN

arn:aws:ec2:us-east-1:034362032911:instance/i-0781912f62314dad1

Private IPv4 addresses

10.1.1.139

Public IPv4 DNS

-

Elastic IP addresses

-

AWS Compute Optimizer finding

Opt-in to AWS Compute Optimizer for recommendations. | Learn more

Auto Scaling Group name

-

8- Create public ec2 instance inside the public subnet

Instances (1/2) Info

Last updated 10 minutes ago

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	Public IPv4 DNS	Public IPv4 ...
<input type="checkbox"/>	privatte-ec2	i-0781912f62314dad1	Running	t2.micro	2/2 checks passec	View alarms +	us-east-1b	-	-
<input checked="" type="checkbox"/>	public-ec2	i-096aab7433c342800	Running	t2.micro	2/2 checks passec	View alarms +	us-east-1b	-	18.215.126.23

i-096aab7433c342800 (public-ec2)

Details

Status and alarms

Monitoring

Security

Networking

Storage

Tags

▼ Instance summary Info

Instance ID

i-096aab7433c342800 (public-ec2)

IPv6 address

-

Hostname type

IP name: ip-10-1-0-99.ec2.internal

Answer private resource DNS name

-

Auto-assigned IP address

18.215.126.23 [Public IP]

IAM Role

-

IMDSv2

Required

Public IPv4 address

18.215.126.23 | open address

Instance state

Running

Private IP DNS name (IPv4 only)

ip-10-1-0-99.ec2.internal

Instance type

t2.micro

VPC ID

vpc-0ab60e4937275f267 (yatt-vpc)

Subnet ID

subnet-0ba2a17ef104dbf69 (my-public-subnett)

Instance ARN

arn:aws:ec2:us-east-1:034362032911:instance/i-096aab7433c342800

Private IPv4 addresses

10.1.0.99

Public IPv4 DNS

-

Elastic IP addresses

-

AWS Compute Optimizer finding

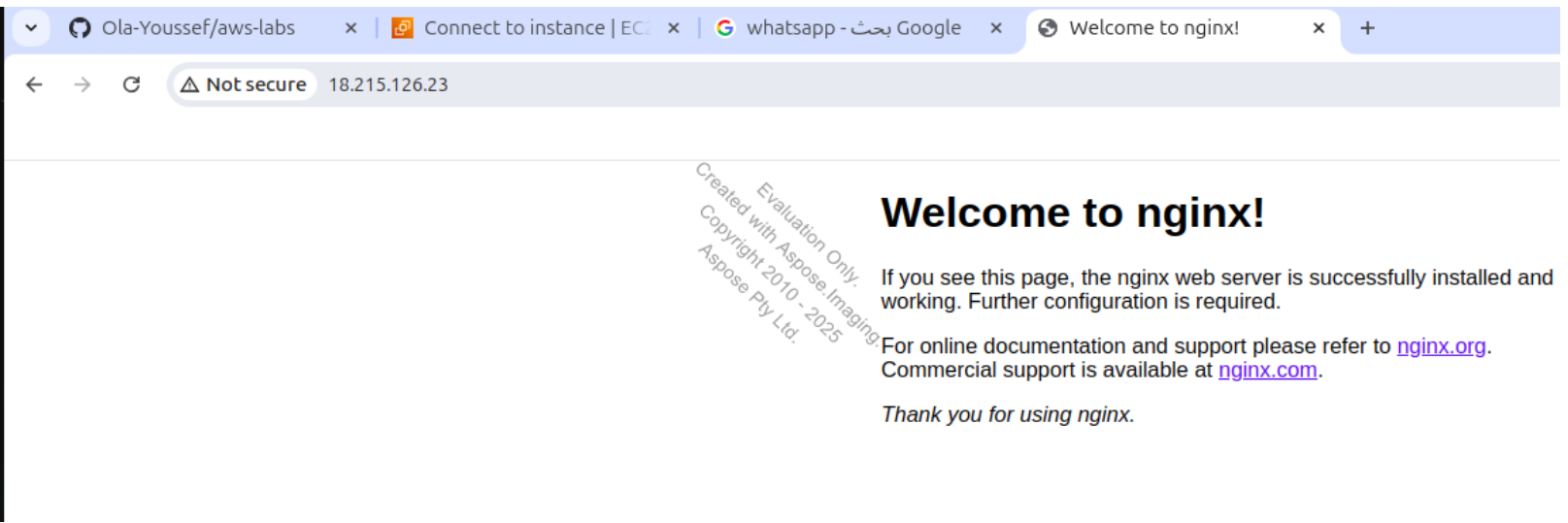
Opt-in to AWS Compute Optimizer for recommendations. | Learn more

Auto Scaling Group name

-

Task 2

9- Access your public instance



Task 2

10- Edit and update nginx page interface using terminal



```
root@ip-10-1-0-99:/usr/share/nginx/html
audit      gettext    mime-info  sssd-kcm
augeas     gettext-0.21 misc        systemd
awk        glib-2.0   myspell    systemtap
backgrounds gnome       nano       tabset
bash-completion groff      nginx      terminfo
chrony     grub       omf        themes
cmake      help       os-prober  vim
cracklib   hwdata     p11-kit    wayland-sessions
crypto-policies i18n       systemd   xfsprogs
dbus-1     icons      getconf    xsessions
desktop-directories idl         pango      zoneinfo
dict       info       pango      zsh
doc        keyutils   pkcs11     polkit
empty      libgpg-error polkit-1

[root@ip-10-1-0-99 share]# cd nginx
[root@ip-10-1-0-99 nginx]# ls
html modules
[root@ip-10-1-0-99 nginx]# cd html
[root@ip-10-1-0-99 html]# ls
404.html 50x.html icons index.html nginx-logo.png poweredby.png
[root@ip-10-1-0-99 html]# echo "Wellcommmee" > index.html
[root@ip-10-1-0-99 html]# cat index.html
Wellcommmee
[root@ip-10-1-0-99 html]#
```

11-Now accesstheprivateinstanceusingpublicinstance

```
ec2-user@ip-10-1-1-139:~
ec2-user@ip-10-1-1-139:~ x ola-youssef@oy-pc: ~/Downloads
404.html 50x.html icons index.html nginx-logo.png poweredby.png
[root@ip-10-1-0-99 html]# echo "Wellcommmee" > index.html
[root@ip-10-1-0-99 html]# cat index.html
Wellcommmee
[root@ip-10-1-0-99 html]# cd
[root@ip-10-1-0-99 ~]# vi mynewkey.pem
[root@ip-10-1-0-99 ~]# chmod 400 mynewkey.pem
[root@ip-10-1-0-99 ~]# ssh -i "mynewkey.pem" ec2-user@10.1.1.139
The authenticity of host '10.1.1.139 (10.1.1.139)' can't be established.
ED25519 key fingerprint is SHA256:qwF6YQ3VetL7N07xt6rd8hsSKx/zhMFaJuStTTYQT0.
This key is not known by any other names
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
Warning: Permanently added '10.1.1.139' (ED25519) to the list of known hosts.

#_
~\_ #####_ Amazon Linux 2023
~~ \#####\
~~ \###|
~~ \#/ https://aws.amazon.com/linux/amazon-linux-2023
~~ V~' '->
~~~
~~~.~.~
~~~/_/_/_/
~~~/_/m/'

[ec2-user@ip-10-1-1-139 ~]$
```