

Assignments for Cloud and Devops

AWS Assignment

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12/1/22

JNTU-CLOUD-DEVOPS

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1. Create EC2

1. Login to AWS

2. Select Services \rightarrow EC2



4. Click on Launch Instance

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5. Name the instance

15	Services	Q. Search for services, features, blogs, docs, and more	[AI1+5]
	EC2 > Insta	nces 🗲 Launch an instance	
	Launch	an instance	
	Amazon EC2 following the	illows you to create virtual machines, or instances, that run on the simple steps below.	AWS Cloud. Quickly get started by
	Name a	nd tags into	
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6. Select Amazon Linux and keep everything as default

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1x 8	Gi8	gp2		•	Root volume (Not encrypted)		
(D) From 1	ier eligible cu	istomers c	an get up	to 30 G8	of EBS General	Purpose (SSD) o	e Magnetic stora	ige X

Click on Launch Instance

1		
Software Image (AMI)		-
Amazon Linux 2 Kernel 5,10 AMI ami-089a545a9ed5893b6	read more	
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t2.micro		
Firewall (security group)		
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Storage (volumes)		
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7. Launching instance

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	Launch	ning instance		
	Please wait v	while we launch your instance.		
	Do not close	your browser while this is loading.		
	 Lound Details 	h initiation s		119.

8. Instance created successfully



9. Instance created with name AWS-Madhav





10. Connecting to the instance using SSH Client

Connect to instance in Connect to your instance 1-031120	to 1e87fba22c76 (AWS-Madh	ni) using any of these	options				
EC2 Instance Connect	Session Manager	SSH elient	EC2 serial console				
Instance ID							
O (-03112de97fba22c7b (AWS-Madhav)							
1. Open an 55H client.							
2. Locate your private key file. The key used to launch this instance is AWSMADHAW.pem							
 Run this command, if necessary, to ensure your key is not publicly viewable. CP chmod 400 AWSMADHAV.pem 							
4. Connect to your instance using its Public DNS: DI ec2-18-190-24-76.us-east-2.compute.amazonaws.com							
Example:							





11. Successfully able to connect to the instance using SSH using the key



2. Create Elastic Block Store

1. Go to Volumes under Elastic Block Store, you can find the volume with size 8 GB for the already created Instance(AWS-Madhav)

2. Click on Create Volume



3. Choose 1GB as the storage size and keep everything default and click on Create Volume.

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4. Successfully created the Volume with 1 GB of space.

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5. Select the created volume, select Actions, and choose Attach Volume

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6. Select the instance where you want to attach the volume and check the volume is attached.



7. Confirmation on the volume is attached successfully



Snapshot screenshot creation 3.

Go to Elastic Block Store, select Snapshots, click on Create Snapshot 1.



Select Instance, choose the instance ID from the drop down. Click on Create 2. Snapshot

ა.

You can see the snapshot is created for the created instance.

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4. Create AMI

1. Right-click the instance you want to use as the basis for your AMI and select **Image and Templates** and choose **Create Image** from the context menu.



2. In the **Create Image** dialog box, type a unique name and description, and then choose **Create Image**.

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3. Under Images, AMIs you will find the created AMI

5. Load Balancer Creation

To create Application load balancer, we need at least 2 EC2 machines
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3. Successfully installed Apache and PHP in the ubuntu machine, both Apache and PHP are working as expected.



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5. Add the image name and description (AWS-Maroju-APACHE-PHP) and click on create image

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6. Go to AMIs and check the image created with the name (AWS-Madhav-APACHE-PHP)

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6. Right click on the AMI and select Launch Instance from AMI

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7. Choose the name 'AWS-Maroju-Instance-Apache-php' and select MY AMIs and choose the created AMI and set everything as default and click on Launch Instance.

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Successfully able to connect to the created instance



Navigate to Load Balancing, Load Balancers



4. Click on Create Load Balancer, select load balancer type as Application Load Balancer



EE2 > Load belanters > Create Application Load Balances
Create Application Load Balancer into The Application Load Balancer intervention intervention intervention and containing intervention and containing, based on request attributes. When the load balancer receives a contaction request, if evaluates the latener rules in priority other to determine which rule to apply, and if applicable, it selects a target from the toget group for the rule action.
How Application Load Balancers work
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O Override	
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University threshold The number of consecutive health check failures required helice considering 4 begat university.	
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Timeout The smouth of tiroe, in seconds, during which no response means a failed health theok.	
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The HTTP codes to use when checking for a successful response from a target. You can specify multiple values (for of values (for example, "200-299").	r wample, "200,202") or a range
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6. Create VPC

- 1. Log into AWS console
- 2. Search for VPC, and select VPC



3. Under 'Virtual Private Cloud', select Your VPCs and click on 'Create VPC'

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4. Give name as 'My-VPC-Madhav' with IP range 192.168.0.0/16 and keep everything as default and click on Create VPC

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5. Go to Your VPCs and check for the newly created VPC

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6. Click on Internet gateways, under Virtual private cloud and click on Create Internet gateways

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7. Give name as 'My-Madhav-InternetGateway', click on Create internet gateway

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eate internet	gateway	100	
memor gateway is a virtu the gateway below	il router that conne	ects a VPC to the laternet. To create a new internet gateway specify the name	
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Internet gateway is created

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8. Create 4 Subnets of which 2 Subnets are public subnets and 2 subnets are private subnets

Attach the Subnet to the existing VPC (My-VPC-Madhav)

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VPC	5 Subnets	Create subnet		
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,	VPC			
2	VPC ID Create submets in th	as VPC.		
	vpc-0e5e71020	06d170c71 (My-VPC-Madhav)	*	
	Q			
	vpc-0e5e71020 192.168.0.0/16	06d170c71 (My-VPC-Madhav)		
-	vpc-03ad0bb2l	ota695et0	(default)	

And create my-private-subnet1 with IP range as 192.168.0.0/24 and click on create subnet

9. Click on Subnets, under Virtual Private cloud and select Create Subnet

bilet i of i					
Subnet name Create a tag with a key of Name	and a volue that	you specify:			
my-private-subnet1					
Die rieterzah be zu br 256 char	uctors larg.				
Availability Zone Info Diseas the zone in which your s	alimit will reside;	or lek Artsuson obsensi one far ynsi.			
No preference					
Pv4 CIDR block					
Q 192.168.0.0/24			×		
🔻 Tags - optional					
Key		Value - optional			
Q, Name	×	Q my-private-subnet1	×	Remove	
Add new tag					
Vou cain add 49 more tags:					
1					
Remove					

10. Repeat the same process to create my-private-subnet2, my-public-subnet1, my-public-subnet2 with IP range as – 192.168.1.0/24, 192.168.2.0/24, 192.168.3.0/24

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11. Create 2 route tables – One public route table and one private router table

12. Click on Route tables under Virtual Private Cloud, click on create route table



13. Create my-public-routertable-1 and attach it to the existing VPC

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14. Create my-private-routetable-1 and attach it to the existing VPC

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2 route tables – one private and one public route table is created

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15. Associate public subnets to my-public-routetable1 and Associate private subnets to my-private-routetable1

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16. Go to Subnets, select my-public-subnet1, and Edit route table association

17. Select my-public-routetable1 from the drop down and click on save

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18. Similarly perform the same activity for the remaining association and you can see the below screenshot with all the associations

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19. Connect the public route table to internet gateway

20. Go to Route tables, select my-public-routetable1 and click on Edit Routes and add 0.0.0.0/0 associated with Internet Gateway (My-Madhav-InternetGateway)

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21. Click on Save changes, now you will see the route is associated with Internet gateway

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22. Create two instances one in Public Subnet1 and other machine in Private subnet1



23. Search for EC2 and select EC2 and select Launch Instance

24. During the EC2 instance creation, change the settings under Network Settings

- a. VPC -> My-VPC-Madhav
- b. Subnet as \rightarrow my-public-subnet1(192.168.2.0/24)
- c. Create a security Group as \rightarrow Public-Subnet-Secgroup1 with SSH and anywhere is enabled
- d. Click on Launch Instance

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25. EC2 instance is created in the public subnet

26. Similarly create EC2 in private subnet 1

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25. Connect to public subnet EC2 machine. Connected successfully



26. Connect to Private subnet EC2 machine, which will not connect



27. Able to ping private IP address 192.168.0.102 from Public Subnet machine

```
ec2-user@ip-192-168-2-37:~
D:\AWS>ssh -i "AWSMADHAV.pem" ec2-user@3.142.132.107
ast login: Tue Dec 6 13:42:45 2022 from 124.123.173.178
                    Amazon Linux 2 AMI
https://aws.amazon.com/amazon-linux-2/
1 package(s) needed for security, out of 1 available
Run "sudo yum update" to apply all updates.
[ec2-user@ip-192-168-2-37 ~]$ ping 3.144.102.243
PING 3.144.102.243 (3.144.102.243) 56(84) bytes of data.
`C
-- 3.144.102.243 ping statistics ---
105 packets transmitted, 0 received, 100% packet loss, time 106472ms
[ec2-user@ip-192-168-2-37 ~]$ ping 192.168.0.102
PING 192.168.0.102 (192.168.0.102) 56(84) bytes of data.
64 bytes from 192.168.0.102: icmp_seq=1 ttl=255 time=0.649 ms
64 bytes from 192.168.0.102: icmp_seq=2 ttl=255 time=0.452 ms
64 bytes from 192.168.0.102: icmp_seq=3 ttl=255 time=0.550 ms
64 bytes from 192.168.0.102: icmp_seq=4 ttl=255 time=0.411 ms
64 bytes from 192.168.0.102: icmp_seq=5 ttl=255 time=0.444 ms
64 bytes from 192.168.0.102: icmp_seq=6 ttl=255 time=0.444 ms
64 bytes from 192.168.0.102: icmp_seq=7 ttl=255 time=0.452 ms
64 bytes from 192.168.0.102: icmp_seq=8 ttl=255 time=0.406 ms
64 bytes from 192.168.0.102: icmp_seq=9 ttl=255 time=0.539 ms
64 bytes from 192.168.0.102: icmp_seq=10 ttl=255 time=0.444 ms
64 bytes from 192.168.0.102: icmp_seq=11 ttl=255 time=0.479 ms
64 bytes from 192.168.0.102: icmp_seq=12 ttl=255 time=1.36 ms
64 bytes from 192.168.0.102: icmp_seq=13 ttl=255 time=0.523 ms
64 bytes from 192.168.0.102: icmp_seq=14 ttl=255 time=0.419 ms
64 bytes from 192.168.0.102: icmp_seq=15 ttl=255 time=0.452 ms
^C
-- 192.168.0.102 ping statistics ---
15 packets transmitted, 15 received, 0% packet loss, time 14286ms
rtt min/avg/max/mdev = 0.406/0.535/1.362/0.229 ms
[ec2-user@ip-192-168-2-37 ~]$ _
```

28. Was able to ping but SSH doesn't work, so copied the AWSMADHAV.pem key to public EC2 machine and SSH works using the private IP address

PublicSubnet-EC2	X 🖾 PrivateSubert-ECI	x 🖭 Command Prompt	X + +
3 packets transmitt rtt min/avg/max/mde [ec2-user@ip-192-16 ^C	ed, 3 received, 8% packe v = 0.448/0.462/0.491/0. 8-2-37 +]\$ ssh -i "AWSMA	et loss, time 2052ms 031 ms DHAV.pem* ec2-user03.144	.102.243
[ec2-user@ip-192-16 The authenticity of ECDSA key fingerpri ECDSA key fingerpri Are you sure you wa Warning: Permanentl 000000000000000000000000 0 WARNING: 00000000000000000000000 0 WARNING: 00000000000000000000000 0 WARNING: 00000000000000000000000 0 WARNING: 0000000000000000000000000 0 WARNING: 000000000000000000000000 0 WARNING: 000000000000000000000000000000000000	8-2-37 ~]\$ ssh -i "AWSMA host '192.168.0.102 (19 nt is SHA256:FI1EuSM05XL nt is MD5:25:a7:48:0c:00 nt to continue connectin y added '192.168.0.102' 00000000000000000000000000000000000	DHAV.pem [®] ec2-user@192.1 22.168.0.102)' can't be e .b2hKVlhpYR70FcF5hN8+rEF5 3:ac:9c:be:ae:a2:bc:cd:db 19.0000000000000 FILE1 0 0000000000000000 FILE1 0 0000000000000000 are NOT accessible by ot 155api-with-mic].	68.0.102 stablished. tsy52E6s. :23:f4:bf. nown hosts. hers.
	Amazon Linux 2 AMI		
https://ams.amazon. [ec2-user@ip-192-16	com/amazon-linux-2/ 8-0-102 ~]\$		

29. Internet works on the public subnet EC2 machine and not Private Subnet EC2 machine because the private subnet EC2 is not connected to the internet.

```
[ec2-user@ip-192-168-2-37 ~]$ cat
^C
[ec2-user@ip-192-168-2-37 ~]$ ssh -i "AWSMADHAV.pem" ec2-user@192.168.0.102
Last login: Tue Dec 6 14:10:09 2022 from 192.168.2.37
                     Amazon Linux 2 AMI
https://aws.amazon.com/amazon-linux-2/
[ec2-user@ip-192-168-0-102 ~]$ ping google.com
PING google.com (142.250.190.142) 56(84) bytes of data.
^C
 --- google.com ping statistics ---
3 packets transmitted, 0 received, 100% packet loss, time 2036ms
[ec2-user@ip-192-168-0-102 ~]$ exit
logout
Connection to 192.168.0.102 closed.
[ec2-user@ip-192-168-2-37 ~]$ ping google.com
PING google.com (142.251.32.14) 56(84) bytes of data.
64 bytes from ord38s33-in-f14.1e100.net (142.251.32.14): icmp_seq=1 ttl=104 time=17.0 ms
64 bytes from ord38s33-in-f14.1e100.net (142.251.32.14): icmp_seq=2 ttl=104 time=17.0 ms
64 bytes from ord38s33-in-f14.1e100.net (142.251.32.14): icmp_seq=3 ttl=104 time=17.6 ms
64 bytes from ord38s33-in-f14.1e100.net (142.251.32.14): icmp_seq=4 ttl=104 time=17.1 ms
64 bytes from ord38s33-in-f14.1e100.net (142.251.32.14): icmp_seq=5 ttl=104 time=17.0 ms
64 bytes from ord38s33-in-f14.1e100.net (142.251.32.14): icmp_seq=6 ttl=104 time=17.1 ms
64 bytes from ord38s33-in-f14.1e100.net (142.251.32.14): icmp_seq=7 ttl=104 time=17.0 ms
64 bytes from ord38s33-in-f14.1e100.net (142.251.32.14): icmp_seq=8 ttl=104 time=17.0 ms
64 bytes from ord38s33-in-f14.1e100.net (142.251.32.14): icmp_seq=9 ttl=104 time=17.1 ms
64 bytes from ord38s33-in-f14.1e100.net (142.251.32.14): icmp_seq=10 ttl=104 time=17.3 ms
^C
    google.com ping statistics ---
```

- 30. To connect internet on Private Subnet EC2 machine, create a NAT Gateway
- 31. Create Nat Gateway from VPC console, click on NAT Gateway and Create NAT Gateway

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32. Give name as – my-nat-gatway and select my-private-subnet1 and allocate the elastic IP, as we are trying to connect to the internet from the private subnetEC2 machine via nat gateway

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highly	y available, m an other VPC	tartaged Network Ad Si, on-premiées nete	dress Tran Ierla, er Ø	slation (NAT) service that inst e Internet.	aloon in privab	e subnets can use to connect to
NAT	r gateway	settings				
Nam	ne – optional oca lag with a l	key of Norce and a valu	e that you s	peoly.		
iny	-nat-gatway	Y				
Subn	iene can bo up tet:	The 216 characters long				
Select	t a subnot in w	hid) to create the NAT	jantway.			
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eub vo-t	onet-0593a2 out-1a	e9b3d40df51 (my-p	rivate-sub	nati)		
sub un-r	anet-Ofbee2s east-2a	a1e30a5citaa (my-pu	blic-subne	ri2)		
Sut:	unet-077c10	995øSTdaaad				44
Sid	onet-06d43a	2d5/6e17667 (my-p	ivate-subc	(et2)		Allocate Elastic (P
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sub- sub- sub- sub- ui-4	onet-045eb0 cast-2s onet-09540a cast-2r onet-0afc79f cast-2s	4fd14b0d221 7ae08709ef1 8a7Sc438e5 (my-pu	blic-subne	c1)		n sion tags to sourch and filter
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sot occ sot inv sub inv Key	onet-045eb0 cast-2a onet-09540a cast-2r onet-0afc79f ourt-2a Histopres ar ho	4fd14b0d221 7ae08709ef1 8a7Sc438e5 (my-pu ink year ##5 costs	blic-subne V	t1) okue - optional		n ion logs to sourch and filter

33. NAT Gateway is created

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34. Go to Route Table, and edit the private-routetable1 and add NAT Gateway

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35. Connect private subnet EC2 machine from the Public Subnet EC2 machine and then ping google.com which should work now



7. VPC Peering



- 1. To create a VPC peering connection with VPCs in the same account and Region
- 2. Created "VPC A" with 3 subnets (10.100.0.0/16)



a. Two subnets in public (10.100.0.0/24) & (10.100.2.0/24)

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b. One subnet in Private (10.100.1.0/24)

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c. Create a EC2 machine in each subnet

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		- Contraction of the	State of State of State			
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			States and states	Statistical Contract State		A

- d. Create two route tables VPC-A-PRIVRT and VPC-A-PUBRT
 - i. Connect 2 Public EC2 machines to Public route table → VPC-A-PUBRT

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<u> </u>	Emme Th		

 ii. Connect 1 Private EC2 machine to Private route table → VPC-A-PRIVRT

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e. Attach Internet Gateway for VPC-A

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3. Create a "VPC B" with 1 subnet (10.200.0.0/16)

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a. Create one private subnet (10.200.1.0/24)

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b. create one EC2 instance in private subnet

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			-	Bernard and Arrest	
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d. Connect the EC2 machine to Route table

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4. Check connectivity

a. Connect to VPCA-PUB-SUB-EC2-A machine

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Herei)))	
			 -		
		_			

Successfully established connection



- b. Now try connecting to VPCA-PUB-SUB-EC2-A EC2 machine, which will fail because of non-availability of the key
- c. Transfer the key to the EC2 machine with the command
 - i. SCP -i .\AWS-Hyderabad.pem -r .\AWS-Hyderabad.pem ec2user@18.60.157.83:/bome/ec2-user

1361 @ 10.00.107.00./110116/602-0.	1901	
PS C:\Users\marom\OneDrive\Desktop\AWS>	> scp -i .\AWS-Hyderabad.pem -r .\AWS-	Hyderabad.pe
m ec2-user@18.60.157.83:/home/ec2-user		
AWS-Hyderabad.pem	100% 1674 272.6KB/s	00:00
<pre>PS C:\Users\marom\OneDrive\Desktop\AWS></pre>	>	

ii. Once the key is transferred check the SSH connection, as you can see 10.100.0.122 is VPCA-PUB-SUB-EC2-A machine and 10.100.1.242 is VPCA-PRIV-SUB-EC2-A machine which is successful



iii. Now try to SSH to 10.200.1.85 which is a VPCB-PRIV-SUB-EC2-A machine from 10.100.1.242 which is VPCA-PRIV-SUB-EC2-A machine

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As this doesn't work because there is connectivity from VPC-A to VPC-B, so we need to create a VPC peering

5. Setup VPC peering



6. Choose Create peering connection.



7. Create VPC peering between VPC-A and VPC-B and associate the requester and Acceptor VPC

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8. Once this is done, we need to also establish the routing between VPC-A PRIVSUBNT-EC2-B machine and VPC-B PRIVSUBNT-EC2-A

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- 9. Once this is done, to perform SSH connection we need to transfer the key from VPCA-PUB-SUB-EC2-A to VPCA-PRIV-SUB-EC2-A machine.
- 10. The SSH connection is established now. Now we can establish the connection from VPC-B-PRIV-SUBNT-EC2A to VPCA-PRIV-SUBNT-EC2B machine successfully.

[ec2-user@ip-10-100-0-122 ~]\$ scp -i AWS-Hyderabad.pem -r AWS-Hyderabad.pem ec2-
AWS-hyderabad.pem 100% 1674 2.0MB/s 00:00
[ec2-user@ip-10-100-0-122 ~]\$ ssh -i AWS-Hyderabad.pem ec2-user@10.100.1.242
Last login: Sun Jan 8 14:18:19 2023 from 10.100.0.122
() (/) Amazon Linux 2 AMI \
https://aws.amazon.com/amazon-linux-2/
[ec2-user@ip-10-100-1-242 ~]\$
[ec2-user@ip-10-100-1-242 ~]\$
[ec2-user@ip-10-100-1-242 ~]\$ sudo su
[root@ip-10-100-1-242 ec2-user]# ls
AWS-Hyderabad.pem
[root@ip-10-100-1-242 ec2-user]# ssh -i AWS-Hyderabad.pem ec2-user@10.200.1.85
-1 $(-1$ $)$ Amazon Linux 2 AMI -1 -1 Amazon Linux 2 AMI
https://aws.amazon.com/amazon-linux-2/
[ec2-user@ip-10-200-1-85 ~]\$
[ec2-user@ip-10-200-1-85 ~]\$
[ec2-user@ip-10-200-1-85 ~]\$