VPC:

1. Create a new VPC and provided range of VPC as 192.168.0.0/16

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VPC-BhargaviNukala		vpc-01dd8f16dd9404b10		⊘ Available		192.168.0.0/16		-		
										9
elect a VPC above										
	elect a VPC above	elect a VPC above	elect a VPC above	elect a VPC above	elect a VPC above	elect a VPC above	elect a VPC above	elect a VPC above	elect a VPC above	elect a VPC above

2. Create two subnets, one as Public subnet and one as Private Subnet in our VPC

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Subnets	a 🗖		···· • • ···	1.6.f	1000CT-17-140	177 71 15 0/20	
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3. Create two Route Tables, one for Public Subnet and One for Private Subnet

4. Associate Private Subnet to Private Route Table and Public subnet to Public Route Table

New VPC Experience X Tetisus what you the C dashboard 2 Global View C incer ear by VPC: - rib-079044cda1c6f0ffc9 - Yes vpc-0407320946 - rib-079044cda1c6f0ffc9 - Yes vpc-0407320946 - rib-04ffd3b9025696ac8 - Yes vpc-0407320946 - rib-04ffd3b9025696ac8 - Yes vpc-0407320946 - rib-04ffd3b9025696ac8 - Yes vpc-0407320946 VPC-BN-PrvRT rib-02454460ac9abbbe6 subner-082a00459255e No vpc-01ddBf16dd VPC-BN-PrvRT rib-09061661968136049 subnet-082a00459255e No vpc-01ddBf16dd VPC-BN-PubRT rib-09061661968136049 subnet-082a00459255e6dc / VPC-BN-PrvSN1 192,168.00/24	Services Q Sear	rch for services, features, blogs,	docs, and more	[Alt+S	1	D	\$	0	Tokyo	• bh	argavi/
C dashbaard 2 Global View [2] ner ter by VPC: er by VPC: er by VPC: er by VPC: - rtb-079d4cda1c6f0ffc9 Yes vpc-0497329866 - rtb-04ffd3b9025696ac8 Yes vpc-04097329866 - rtb-04ffd3b9025696ac8 Yes vpc-01dd816dd VPC-BN-PrvRT rtb-02454460ac9abbbe6 subnet-082a0d459255e No vpc-01dd816dd VPC-BN-PubRT rtb-09061661968136049 subnet-0639f91528b02 No vpc-01dd816dd vPC-BN-PubRT rtb-09061661968136049 subnet-0639f91528b02 No vpc-01dd816dd vPC-BN-PubRT rtb-09061661968136049 subnet-0639f91528b02 No vpc-01dd816dd VPC-BN-PubRT rtb-09061661968136049 subnet-0639f91528b02 No vpc-01dd816dd vpc-01dd8	New VPC Experience X	Route tables (1/4)	nfo			C Action	•	Crea	ite rou	te table	
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5. Create an Internet Gateway

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6. Connect Public Route Table to Internet Gateway

7. Created two instances in VPC, one in Private Subnet and one in Public subnet

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New EC2 Experience X	 Successfully stopped i-0b012bbeb73 	e03088,i-050a424927fc315f3		×
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EC2 Global View	Q. Find instance by attribute or tag (ca	se-sensitive)		< 1 > @
Events	Instance state = running X	Clear filters		
Tags				
Limits	Name ♥	Instance ID	Instance state V Instance type	V Status check Alarm status
Instances	VPC-BN-PubEC	i-06dd7cfb4c48733a3	⊘ Running @QQ t2.micro	
Instances	VPC-BN-PrvEC	i-061ecdd7c87252768	⊘ Running ⊕Q t2.micro	
Instances new	1			
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Reserved Instances New Dedicated Hosts Capacity Reservations Images AMIs New	CPU utilization (%)	Status check failed (an I	Status check failed (ins i	Status check failed (sys 1

8. Login to Instance in Public subnet and try to Ping instance in Private subnet from Instance in Public subnet

😝 Instances EC2 Management 🗙 🧕 EC2 Instance Connect 🛛 🗴 😵 Apache2 Ubuntu Du	efault Page 🗴 🗍 🔕 School of C	ontinuing and Dist 🗙 🏹 M Inbox	(5) - bhargavi.aqua04	a × (+			x
\leftarrow \rightarrow C \bullet ap-northeast-1.console.aws.amazon.com/ec2-instance-connect/ssh?conn7	∫ype=standard&instanceId=i-0	6dd7cfb4c48733a3&osUser=ec	2-user®ion=	日白	*	S 🛛 🍏	:
aws Exercises Q. Search far services, features, blogs, docs, and more	[Alt+S]		Ð 4	0	Tokyo 🔻	bhargaviAWS	•
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i-06dd7cfb4c48733a3 (VPC-BN-PubEC)						į	×
PublicIPs: 54,199.59.232 PrivateIPs: 192.168.2.30							

9. Ssh to private instance will fail, so Copied the pemtest.pem file onto Public EC2 instance and changed the permissions



10. Now when we should be able to Connect to a private EC2 instance from a public EC2 instance using ssh



11. Create NAT GateWay to get internet connection to instances on Private Subnet

WS Services Q Sea	th for services, features, blogs, docs, and more [Alt+5]		D & Ø	Tokyo 🔻	bhargaviA
New VPC Experience X	NAT gateways (1/1) Info	C	Actions 🔻 Cre	ate NAT g	ateway
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Virtual private cloud	VPC-BN-PrvRT	r	rtb-02454460ac9abbb	e6	subnet-082a0d4	59255e.			No		vpc-01	dd8f16dd9
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Elastic IPs	0.0.0/0		nat-0c26f0b041bc	d9c001			 ⊘ Active 		No			
Managed prefix lists	192.168.0.0/16		local				⊘ Active		No			1

12. Attaching Private RouteTable to NAT Gateway

13. Pinging google.com from instance on Private Subnet



VPC Peering:

1. Create two VPCs, VPC-A and VPC-B

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2. Create two public subnets with ranges (10.100.0.0/24) & (10.100.2.0/24) and one private subnet with range (10.100.1.0/24) in **VPC-A** Create one private subnet (10.200.1.0/24) in **VPC-B**

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ilter by VPC:		VPC-B-PrvSN1		subnet-0c228749ff086b059		🕑 Available	vpc-056b8e1f9c64ddf	66 VPC	10.200.1.0/24	
Select a VPC 🔹	D	VPC-A-PubSN1		subnet-08ec9029cde3e4798		⊘ Available	vpc-0b52cb14c536743	fb VP	10.100.0.0/24	
irtual private cloud				subnet-0b9ff0cb9033b9270		⊘ Available	vpc-04973299863a13	d48	172.31.32.0/20	
our VPCs		VPC-A-PubSN2		subnet-04c3ea0a1214f46d9		O Available	vpc-0b52cb14c536743	ifb VP	10.100.2.0/24	
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1912-1-1/1/1										

3. Create a private RouteTable for private subnet and public route table for 2 public subnets in **VPC-A** Create a private route table for private subnet in **VPC-B** Associate the concerned subnets with the route tables.

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Nexteen William International	VPC-B-P	VRT	rtb-09368e65e50f33914	1	subnet-0c228749ff086b		No	vpc-056b	Belf9
Virtual private cloud			rtb-044b1a5e3dc7af69c		-	-	Yes	vpc-056b	oBe1f9
Your VPCs	VPC-A-P	IbRT	rtb-053fb6b47e9d38ed1	r i	2 subnets	-	No	vpc-0b52	2cb14c
Subnets	VPC-A-P	VRT	rtb-064129a655d9f7c7b	,	subnet-0369203ba8c40	2	No	vpc-0b52	2cb14c 🗸
Route tables	- C								•
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Egress-only internet gateways	Select a route tab	le							
Carrier gateways									
DHCP Option Sets									
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4. Create an Internet Gateway and associate public Route Table of VPC-A to that Internet Gateway.

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5. Create a EC2 machine in each public subnet & private subnet should have 2 EC2 instance for VPC-A create one EC2 instance in private subnet of VPC-B

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6. Connect to private EC2 instance of VPC-A from public EC2 instance of VPC-A



7. From this private instance of VPC-A, try to ping to private instance of VPC-B. It will fail as there is no internet connection to VPC-B



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8. So for communication between two private instances of VPC-A and VPC-B, create a peer connection.

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9. Accept the peering connection request

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10. Update the private route tables of VPC-A and VPC-B with the newly created peering connection.

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11. Now if we ping from private EC2 instance of VPC-A to private EC2 instance of VPC-B, ping will be successful



12. To connect to private EC2 instance of VPC-B, we need to copy the .pem file from public EC2 instance of VPC-A to private EC2 instance of VPC-A and then ssh to private EC2 instance of VPC-B



13. Now when we try to connect to private EC2 instance of VPC-B from private EC2 instance of VPC-A, both ping and ssh will succeed. We can also observe that .pem file is available in private EC2 instance of VPC-A



So peering connection is done and we are able to connect the private EC2 instances of both VPC-A and VPC-B.