KANDADAI BHARGAVI

Assignment:

1. VPC with 2 public subnets & 2 private subnet having Internet gateway and NAT gateway



1.Go to VPC option



2. Select VPC- and click on create VPC option

Services Q Search		[Alt+S]	🕗 🔶 🧭 Mumbai 🔻 bha
New VPC Experience	Create VPC Launch EC2 Inst	ances	Service Health
PC dashboard	Note: Your instances will launch in the Asia Pacific	c region.	Current Status Details
C2 Global View 🗹 🗤	Resources by Region Cr	Refresh Resources	Amazon EC2 - Asia Pacific Service is operating normally
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ndpoint services	See all regions 🐨		AWS Network Manager centrally manages your Cloud WAN core

3.Select VPC only

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VPC > Your VPCs > Creat	te VPC				î (i
Create VPC					
A VPC is an isolated portion of	the AWS Cloud populated by AWS objects, such	as Amazon EC2 instances.			
VPC settings					
Resources to create Info Create only the VPC resource or	the VPC and other networking resources.				
O VPC only	O VPC and more				
Name tag - optional Creates a tag with a key of 'Nam	e' and a value that you specify.				
VPC-KANDADAI					
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3. Give the IPV4 for VPC-10.100.0.0/16

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IPAM-allocated IPv6 CIDR block						
Amazon-provided IPv6 CIDR block						

5.Click on create VPC

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IPAM-allocated IPv6 CIDR block		
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Tags A tag is a label that you assign to an AWS resource, your resources or track your AWS costs. Key	Each tag consists of a key and an optional value. You can use tags to search and filter	
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Tags A tag is a label that you assign to an AWS resource, your resources or track your AWS costs. Key Q. Name X Add new tag You can add 49 more tags.	Each tag consists of a key and an optional value. You can use tags to search and filter Value - <i>optional</i> Q. VPC-KANDADAI X. Remove	
Tags A tag is a label that you assign to an AWS resource. your resources or track your AWS costs. Key Q. Name Add new tag You can add 49 more tags.	Each tag consists of a key and an optional value. You can use tags to search and filter Value - aptional	

6. VPC created



7. Now we need to create Subnets-two public &two private subnets8.Select Subnet option on left pane of the window-click create subnet



9. Select VPC that is created and fill the remaining details

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Subnet settings			
Specify the CIDR blocks and Availability Zone for the subnet.			
Select a VPC first to create new subnets.			
Add new subnet			
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10. Create a subnet with IP-10.100.0.0/16

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11. Create one private subnet-10.100.2.0/24

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Subnet name Create a tag with a key of 'Na	me' and a value that you specify.								
KANDADAI-PVTSN1									
The name can be up to 256 c	haracters long.								
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12.Now create internet gateway-selecting an option at the left pane of window

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Select a VPC 🔹		no internet gateways round	r in una region		
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Lastic IPs					
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Liastic IPs Managed prefix lists Endpoints Endpoint services					

12.Just click on create gateway option and the following screen appears, give name to the gateway and click create gateway option

An internet gateway is a virtu	al router that connects a VPC	to the internet. To create a new int	[Alt+5] ternet gateway specify the name	D	\$ C	D Mumba	i▼ bhargav * (
Internet gateway se	ttings						
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KANDADAI -GTWY1							
Tags - optional A tag is a label that you assign your resources or trade your Al	to an AWS resource. Each tag cons VS costs. Value – ou	sists of a key and an optional value. You c	an use tags to search and fitter				
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Gateway created

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VPC dashboard EC2 Global View 🖄 🗤= Filter by VPC:	VPC > Internet gateways > igw	-07bead86a23e594ea e594ea / KANDA	DAI -GTWY1	Action	ns V
Select a VPC 🔹					
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Your VPCs					
Subnets	Internet gateway ID	State	VPC ID	Owner	
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lanaged prefix lists	Key Value				
ndpoints	Name KANDADAI -GT	NY1			
ndpoint services					

Now select internet gateway option on left window pane and attach it to the vpc, by clicking on actions button at right top of window

	ch [Alt+S] D	\$ Ø	Mumbai	▼ bh
New VPC Experience X	O The following internet gateway was created: igw-07bead86a23c594ea - KANDADAI -GTWY1. You can now attach to a VPC to enable the VPC to communicate with the internet.	Attach	to a VPC	×
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Select attach to vpc-and click on attach internet gateway

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Gateway Attached option will come

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Now create route table –one for public subnet and one for private subnet

Click on route table option on left pane

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Select Create route table option on right side of window

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A tag is a label that you assign to an AWS	resource. Each tag consists of a key and an	optional value. You can use tags to sear	h and filter		
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Now associate route table to subnets-Public route table to public subnet and private Route table to private subnets.

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Now go to route table select public route table...

For subnet association-click on Subnet Association option below the route

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Click on edit subnet association-will get window with all subnets created. Now select the subnets and click on save association

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Will get window like below -attach both route tables with subnets.

Now attach Public Route table to internet gateway

Select public route table and click on routes option

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Fill in the details-click add route-0.0.0.0/0, add created internet gateway and click save changes



NEXT CREATE AN EC2 MACHINE USING SUBNET OPTION WITH VPC WHAT HAS BEEN CREATED

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Q			Virtual server type (instance type)
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vpc-05e89650ca44ae6cf (VPC-KANDAD	AJ)		Firewall (security group)
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ENABLE PUBLIC IP

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	Create security group	Select existing security group						
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Create Security Group and add inbound rules

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Subnet Info			▼ Summary					
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Firewall (security groups) Info A security group is a set of firewall rules Instance.	that control the traffic for your instance. Add rules to all	ow specific traffic to reach your	Amazon Linux 2 Kernel 5.10 AMIread more ami-De6529e222e662a52					
O Create security group	 Select existing security group 		Virtual server type (instance type)					
			t2.micro					
Security group name - required			Firewall (security group)					
KANDADAI-SG-PUB			New security group					
This security group will be added to all n 255 characters. Valid characters: a-z, A-Z	etwork interfaces. The name can't be edited after the se , 0-9, spaces, and:/()#,@[]+=%;[]!\$*	Storage (volumes)						
Description - required Info			1 volume(s) - 8 GiB					
KANDADAI-SG-PUB								
Inbound security groups rules			Cancel Launch instance					
Security group rule 1 (TCP, 2)	22, 0.0.0.0/0)	Remove						

CREATE TWO INSTANCES FOR TWO SUBNETS



COPY KEY FROM LOCAL MACHINE TO EC2 MACHINE WITH EC2 PUBLIC IP ADDRESS Scp –I .\choco1.pem -r .\choco1.pem <u>ec2-user@15.228.219.207</u> :/home/ec2-user



Give permission to the machine -

chmod 777 choco1.pem

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Now connect your private subnet machine with private ip address to the machine Cmd is-ssh –I choco1.pem ec2-user@private ip address of private machine

