## Lab 2: Build your VPC and Launch a Web Server

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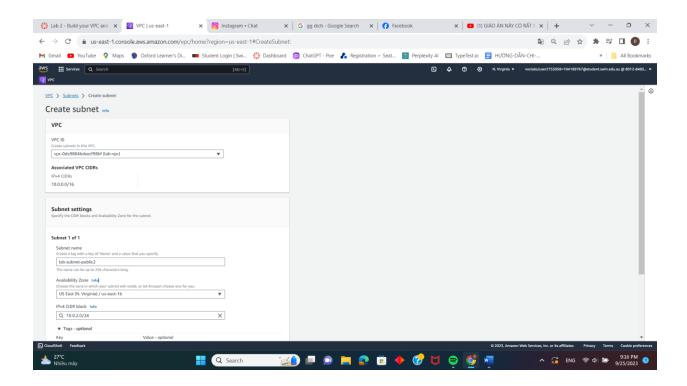
Task 1: Create Your VPC

Resources to create I Create only the VPC resor		her networking resources.
○ VPC only	0	VPC and more
tags for all resources in th	ne tag. This value will b	oe used to auto-generate Name
✓ Auto-generate		
100		
IPv4 CIDR block Info Determine the starting IP	and the size of years	PC using CIDP potation
10.0.0.0/16	and the size of your v	65,536 II
10.0.0.0, 10		03,33011
IPv6 CIDR block Info		
No IPv6 CIDR bloc	k	
<ul> <li>Amazon-provided</li> </ul>	IPv6 CIDR block	
Tenancy Info		
Default		
Derautt		
Choose the number of AZ	s in which to provision	subnets. We recommend at lea
Choose the number of AZ	s in which to provision	
two AZs for high availabil	zs in which to provision lity.	subnets. We recommend at lea
Choose the number of AZ two AZs for high availabil  1  Customize AZs	zs in which to provision lity.	subnets. We recommend at lea
Choose the number of AZ two AZs for high availabil  1  Customize AZs  Number of public sub	is in which to provision lity.	subnets. We recommend at lea
Choose the number of AZ two AZs for high availabil  1  Customize AZs  Number of public sub	is in which to provision lity.  2  nets Info onets to add to your Vi	a subnets. We recommend at least

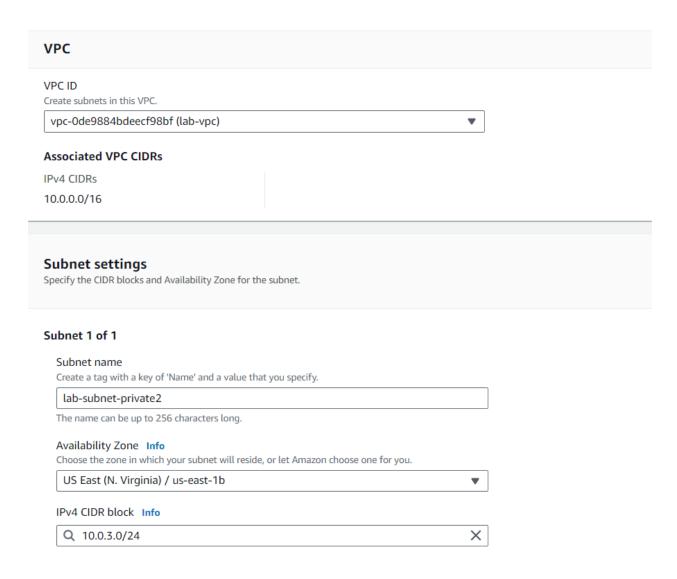
0	1	
U	1	
Number of private sub	nets Info	
The number of private sub backend resources that do	nets to add to your VPC. Use	e private subnets to secure
0	1	2
▼ Customize subnets	CIDR blocks	
Public subnet CIDR blo	ck in us-east-1a	
10.0.0.0/24		256 IPs
	1-	
Private subnet CIDR blo	ock in us-east- ia	
10.0.1.0/24  NAT gateways (\$) Info	ilability Zones (AZs) in which	256 IPs
10.0.1.0/24  NAT gateways (\$) Info	ilability Zones (AZs) in which	
10.0.1.0/24  NAT gateways (\$) Info	ilability Zones (AZs) in which	
NAT gateways (\$) Info Choose the number of Ava Note that there is a charge None  VPC endpoints Info Endpoints can help reduce accessing S3 directly from	ilability Zones (AZs) in which for each NAT gateway In 1 AZ NAT gateway charges and in the VPC. By default, full acc	n to create NAT gateways.  1 per AZ
NAT gateways (\$) Info Choose the number of Ava Note that there is a charge None  VPC endpoints Info Endpoints can help reduce	ilability Zones (AZs) in which for each NAT gateway In 1 AZ NAT gateway charges and in the VPC. By default, full acc	n to create NAT gateways.  1 per AZ
NAT gateways (\$) Info Choose the number of Ava Note that there is a charge None  VPC endpoints Info Endpoints can help reduce accessing S3 directly from customize this policy at an	ilability Zones (AZs) in which for each NAT gateway  In 1 AZ  NAT gateway charges and in the VPC. By default, full accy	n to create NAT gateways.  1 per AZ
NAT gateways (\$) Info Choose the number of Ava Note that there is a charge None  VPC endpoints Info Endpoints can help reduce accessing S3 directly from customize this policy at any None	ilability Zones (AZs) in which for each NAT gateway  In 1 AZ  NAT gateway charges and in the VPC. By default, full accy	n to create NAT gateways.  1 per AZ
NAT gateways (\$) Info Choose the number of Ava Note that there is a charge None  VPC endpoints Info Endpoints can help reduce accessing S3 directly from customize this policy at an	ilability Zones (AZs) in which for each NAT gateway  In 1 AZ  NAT gateway charges and in the VPC. By default, full acc y time.  S3 Gateway	n to create NAT gateways.  1 per AZ

I change the value to lab , number of Availability, public private subnet , NAT gateways (\$) to In 1 AZ and VPC endpoints to None. After checking and confirming, Create VPC

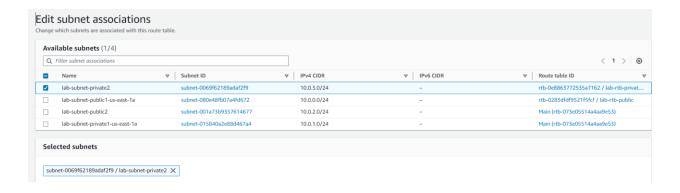
**Task 2: Create Additional Subnets** 



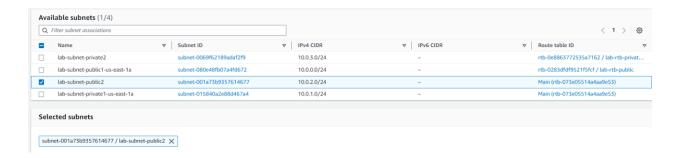
I create the public subnet and configure as instructions : VPC ID , Subnet name , Availability Zone, Ipv4 CIDR block.



and then create the second private subnet.

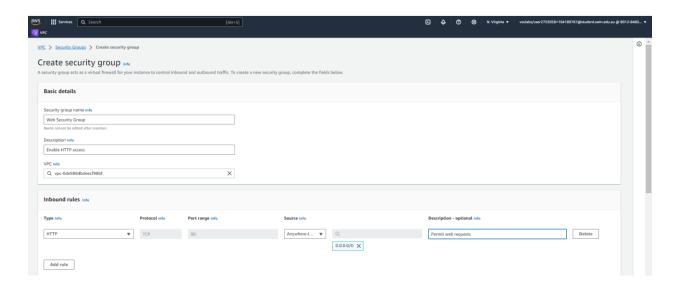


I select lab-subnet-private2 to use routre traffic from private subnet.



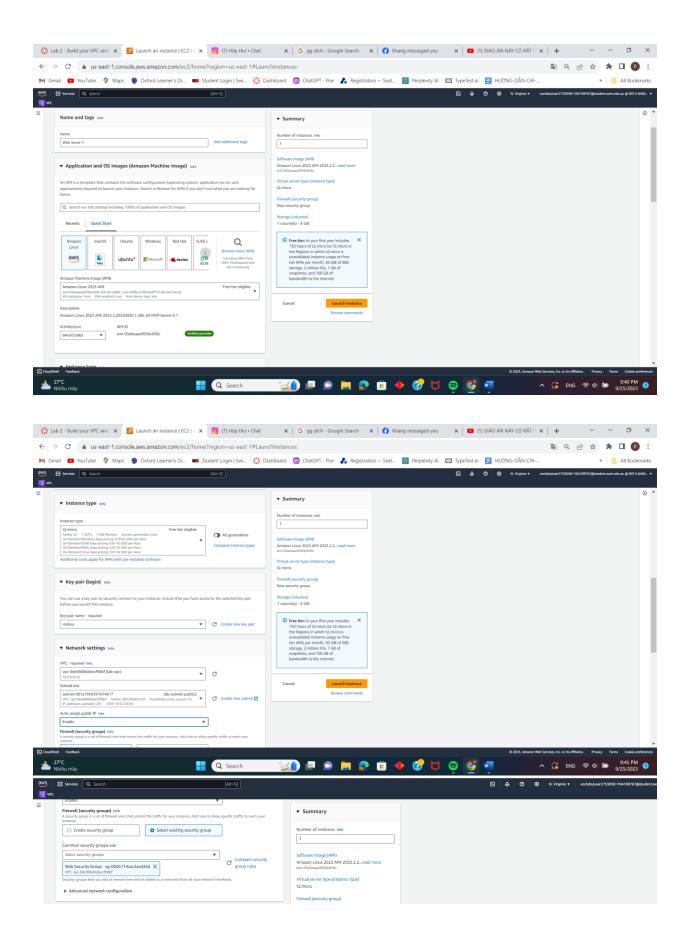
I do the same steps with public subnet.

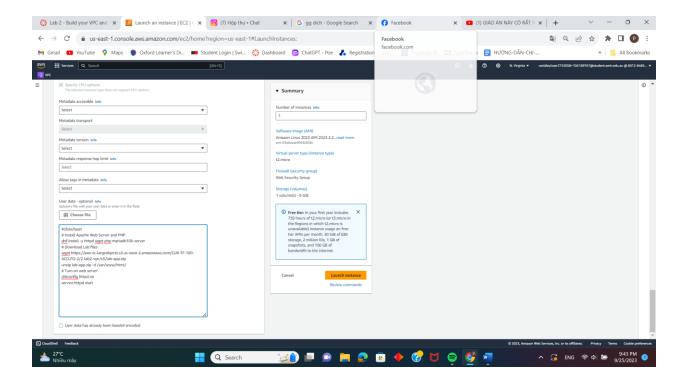
Task 3: Create a VPC Security Group



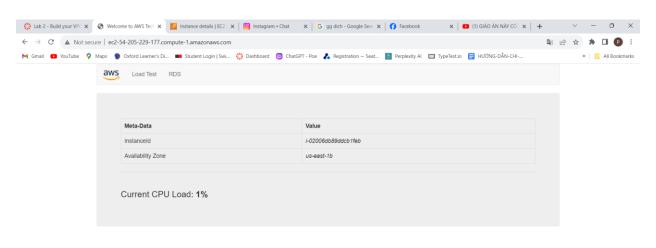
This task requires creating security group . I configure information as instructions, including security group name, description, VPC and inbound rules.

Task 4: Launch a Web Server Instance





These photos above is the steps I create an EC2 instance to launch the web server.





Finally, I can connect to the Web Server.