### **VPC & VPC Peering**

# Create a VPC with 2 public subnets & 2 private subnet having Internet gateway and NAT gateway

VPC Range - 192.168.0.0/16

Private Subnet 1 – 192.168.0.0/24

Private Subnet 2 – 192.168.1.0/24

Public Subnet 1 – 192.168.2.0/24

Public Subnet 2 – 192.168.3.0/24

1. Create VPC with name "**VPC-UDAY**" with the range of VPC as **192.160.0.0/16** 

(DC				
/PC settings				
Resources to create Info Create only the VPC resource or the VPC and or	ther n	etworking resources.		
• VPC only		○ VPC and more		
Jame tag - optional ireates a tag with a key of 'Name' and a value :	that y	ou specify.		
VPC-UDAY				
2v4 CIDR block Info				
IPv4 CIDR manual input				
) IPAM-allocated IPv4 CIDR block				
Pv4 CIDR				
192.168.0.0/16				
Pv6 CIDR block Info				
No IPv6 CIDR block				
) IPAM-allocated IPv6 CIDR block				
Amazon-provided IPv6 CIDR block				
) IPv6 CIDR owned by me				
enancy Info				
Default			•	
ags tag is a label that you assign to an AWS resou our resources or track your AWS costs.	urce. E	ach tag consists of a key and an o	optional value. You c	an use tags to search and filter
еу		Value - optional		
Q Name	<	Q VPC-UDAY	×	Remove
Add new tag				

You	r VPCs (2	) Info																	C	Actions ¥	Create	VPC
Q	Filter VPCs																				< 1 >	۲
	Name	v	VPC ID	w	State	v	IPv4 CIDR	v	IPv6 ♥	DHCP option set	w	Main route table	w	Main network ACL	.w	Tenancy	v	Default VPC	w	Owner ID		v
	VPC-UD	w	vpc-06655928932f859f	7	@ Available		192.168.0.0	/16	-	dopt-05ccadb0af65	25	rtb-0d59943afdfac2b21		acl-04d1c431c6857d0c7		Default		No		687817909682		
			vpc-0c85da6ed826f1dc	5	O Available		172.31.0.0/	16	-	dopt-05ccadb0af65	25	rtb-09ce6d9462e9eafa1		ad-0bb0c7ea3751de860		Default		Yes		687817909682		

2. Create an Internet Gateway name "**VPC-UDAY-IGW**" and attach it to the above VPC

/PC > Internet gateways > Create interne	t gateway		
Create internet gateway	Info		
An internet gateway is a virtual router that conr for the gateway below.	nects a VPC to the internet. To	o create a new inte	rnet gateway specify the name
Internet gateway settings			
Name tag Creates a tag with a key of 'Name' and a value that y	you specify.		
VPC-UDAY-IGW	2 ADC 25		
Tags - optional A tag is a label that you assign to an AWS resource. your resources or track your AWS costs.	Each tag consists of a key and an o	optional value. You ca	n use tags to search and filter
Q Name X	Q VPC-UDAY-IGW	×	Remove
Add new tag You can add 49 more tags.			
		Cancel	Create internet gateway
Internet gateways (2) Info			
Q Filter internet gateways			
□ Name ♥ Internet gateway ID	⊽ State	♥ VPC ID	▽ Owner

VPC-UDAY-IGW	igw-058f2007229b3ee5c	O Detached	-	687817909682
-	igw-0605375b748b1cd83	⊘ Attached	vpc-0c85da6ed826f1dc8	687817909682

Inte	net gateways (1	/2) 1	nfo				C	Actions A Creat	e internet gateway
Q	Filter internet aatewa	Vs						View details	
-	Jane							Attach to VPC	
	Name	$\nabla$	Internet gateway ID	V	State	$\nabla$	VPC ID	Detach from VPC	▽
•	VPC-UDAY-IGW		igw-058f2007229b3ee5c		⊖ Detached	ł	-	Manage tags	9682
	-		igw-0605375b748b1cd83		⊘ Attached		vpc-0c85da6ed826f1dc8	Delete internet gateway	9682

VPC > Internet gateways > Attach to VPC (igw-058f2007229b3ee5c)

### Attach to VPC (igw-058f2007229b3ee5c) Info

#### VPC

Attach an internet gateway to a VPC to enable the VPC to communicate with the internet. Specify the VPC to attach below.

#### Available VPCs

Q Select a VPC		
vpc-06655928932f859f7 - VPC-UDAY		
AWS Command Line Interface command	vpc-06655928932f859f	7 - VPC-UDAY
	Cancol	Attach internet oateway

Internet gateway igw-058f2007229b3ee	5c successfully attached to vpc-066	55928932f859f7	>
VPC > Internet gateways > igw-05	8f2007229b3ee5c See5c / VPC-UDAY	-IGW	Actions 🔻
Details Info			
Internet gateway ID igw-058f2007229b3ee5c	State Ø Attached	VPC ID vpc-06655928932f859f7   VPC-UDAY	Owner 🗗 687817909682
Tags			Manage tags
Q Search tags			< 1 > @
Key Value			
Name VPC-UDAY-IGW			

< 1 > @
~
682
82
96

3. Create **Private Subnet 1 – 192.168.0.0/24** with name **"VPC-UDAY-PrvSN1"** in the above VP

reate subnet Info					
VPC					
VPC ID Create subnets in this VPC.					
vpc-06655928932f859f7 (VP	C-UDAY)		•		
Associated VPC CIDRs					
IPv4 CIDRs					
192.168.0.0/16					
Subnet settings Specify the CIDR blocks and Availabi	ity Zone for the	subnet.			
Subnet 1 of 1					
Subnet name Create a tag with a key of 'Name' a	and a value that	you specify.			
VPC-UDAY-PrvSN1					
The name can be up to 256 charac Availability Zone Info Choose the zone in which your sub	ters long. onet will reside,	or let Amazon choose one for you.			
No preference			•		
IPv4 CIDR block Info					
Q 192.168.0.0/24			×		
<ul> <li>Tags - optional</li> <li>Key</li> </ul>		Value - optional			
Q Name	×	Q VPC-UDAY-PrvSN1	×	Remove	
You can add 49 more tags					
nou can add 45 more tags.					
Remove					
Add new subnet					
			Ca	Incel Cre	ate subnet

4. Create **Private Subnet 1 – 192.168.1.0/24** with name **"VPC-UDAY-PrvSN2"** in the above VPC

Create subnet Info				
VPC				
VPC ID Create subnets in this VPC.				
vpc-06655928932f859f7 (VP	C-UDAY)			
Associated VPC CIDRs				
IPv4 CIDRs				
192.168.0.0/16				
Subnet settings Specify the CIDR blocks and Availabi	lity Zone for the	e subnet.		
Subnet 1 of 1				
Subnet name Create a tag with a key of 'Name'	and a value that	t you specify.		
VPC-UDAY-PrvSN2				
The name can be up to 256 chara Availability Zone Info Choose the zone in which your su	cters long. bnet will reside,	or let Amazon choose one for you.		
No preference			•	
IPv4 CIDR block Info				
Q 192.168.1.0/24			×	
▼ Tags - optional		Value - optional		
Q Name	×	Q VPC-UDAY-PrvSN2	×	Remove
Add new tag				
You can add 49 more tags.				
Remove				
Add new subnet				
			c	ancel Create subnet

5. Create **Public Subnet 1 – 192.168.2.0/24** with name **"VPC-UDAY-PubSN1"** in the above VPC

reate subnet Info				
VPC				
VPC ID Create subnets in this VPC.				
vpc-06655928932f859f7 (VPC-UDAY)		•		
Associated VPC CIDRs				
IPv4 CIDRs				
192.168.0.0/16				
Subnet settings Specify the CIDR blocks and Availability Zone for	the subnet.			
Subnet 1 of 1				
Subnet name Create a tag with a key of 'Name' and a value	that you specify.			
VPC-UDAY-PubSN1				
Availability Zone Info Choose the zone in which your subnet will res	ide, or let Amazon choose one for you.			
No preference		•		
IPv4 CIDR block Info				
Q 192.168.2.0/24		×		
▼ Tags - optional				
Key	Value - optional			
Q Name	C VPC-UDAY-PubSN1	×	Remove	
Add new tag				
fou can aud 49 more tags.				
Remove				
Add new subnet				
		Ca	Create sub	net

6. Create **Public Subnet 1 – 192.168.3.0/24** with name **"VPC-UDAY-PubSN2"** in the above VPC

reate subnet Info			
VPC			
VPC ID Create subnets in this VPC.			
vpc-06655928932f859f7 (VPC-UDA	AY)		
Associated VPC CIDRs			
IPv4 CIDRs			
192.168.0.0/16			
Subnet settings			
Specify the CIDR blocks and Availability Zo	ne for the subnet.		
Submet 1 of 1			
Subnet 1 of 1			
Subnet name Create a tag with a key of 'Name' and a v	alue that you specify.		
VPC-UDAY-PubSN2		1	
The name can be up to 256 characters lo	ing.		
Augilability Zana Jafa			
Choose the zone in which your subnet w	ill reside, or let Amazon choose one for you.		
No preference			
IPv4 CIDR block Info			
Q 192.168.3.0/24		×	
Tags - optional			
Key	Value - optional		
Q Name	X Q VPC-UDAY-PubSN2	×	Remove
Add new tag			
You can add 49 more tags.			
Deserves			
кеточе			
Add new subnet			
Add new subnet			
		Can	cel Create subnet

Q Filter subnets	< 1 > @
Name	
	♥ IPv4 CIDR ♥ IPv6 CIDR
VPC-UDAY-PrvSN2         subnet-0eb915223c34882e5         ⊘ Available         vpc-06655928932	2f859f7   VP 192.168.1.0/24 -
□ - subnet-0fee30122f110fb44 ⊘Available vpc-0c85da6ed826	26f1dc8 172.31.16.0/20 -
VPC-UDAY-PrvSN1 subnet-077b4cb213a7e921c OAvailable vpc-06655928932	2f859f7   VP 192.168.0.0/24 -
VPC-UDAY-PubSN2 subnet-0605a4e477d2cc0b4 OAvailable vpc-06655928932	2f859f7   VP 192.168.3.0/24 -
- subnet-021d0615f7e45ca5d ⊘Available vpc-0c85da6ed824	26f1dc8 172.31.32.0/20 -
- subnet-05f94c3356f9be7bf 🥥 Available vpc-0c85da6ed82d	26f1dc8 172.31.0.0/20 -
VPC-UDAY-PubSN1         subnet-067d9565627281ab9         ⊘ Available         vpc-06655928932	2f859f7   VP 192.168.2.0/24 -

7. Now create a route table with the name "**VPC-UDAY-PrvRT**" in the above VPC for the private subnets.

Rou	te tables (4) Info								C Action	s 🔻 Crea	te route tab	le
Q	Filter route tables									<	(1>	۲
	Name	$\nabla$	Route table ID	V	Explicit subnet	Edge as	Main 🛡	VPC	⊽	Owner ID		~
	(m)		rtb-09ce6d9462e9eafa1		-	14	Yes	vpc-0c85da6ed82	26f1dc8	687817909682	2	
	VPC-UDAY-PrvRT		rtb-03aad59e32875f289		-	-	No	vpc-0665592893	2f859f7   VP	687817909682	2	
	VPC-UDAY-PubRT		rtb-066ef40f6b077adf0		-	-	No	vpc-0665592893	2f859f7   VP	687817909682	2	
			rtb-0d59943afdfac2b21		-	171	Yes	vpc-0665592893	2f859f7   VP	687817909682	2	

- 8. Now create a route table with the name "**VPC-UDAY-PubRT**" in the above VPC for the public subnets.
- 9. Now, **associate the route tables** to corresponding subnets. Public subnets to public route table and Private subnets to private route table.

					·		
Q, Filter route tables							< 1 > {
Name 🔻 Ro	oute table ID 🛛 🗸	Explicit subnet associat	Edge associations	Main	⊽ VPC	⊽	Owner ID
- rtt	b-09ce6d9462e9eafa1	-	-	Yes	vpc-0c85da6ed	826f1dc8	68781790968
VPC-UDAY-PrvRT rtt	b-03aad59e32875f289	-	12	No	vpc-066559289	32f859f7   VP	68781790968
VPC-UDAY-PubRT rtt	b-066ef40f6b077adf0	-	-	No	vpc-066559289	32f859f7   VP	68781790968
- rtb	b-0d59943afdfac2b21	-	-	Yes	vpc-066559289	32f859f7   VP	68781790968
Details Routes Subnet a:	W-PrvRT ssociations Edge associ	ations Route propagation	Tags				
Explicit subnet associations Q. Find subnet association	; (0)					Edit subnet	t associations
Explicit subnet associations Q. Find subnet association. Subnet ID	; (0) ⊽	IPv4 CIDR		⊽	IPv6 CIDR	Edit subnet	t associations 1 > ©
Explicit subnet associations           Q. Find subnet association           Subnet ID	; (0) v	IPv4 CIDR No subnet a You do not have any	issociations subnet associations.	⊽	IPv6 CIDR	Edit subnet	t associations
Explicit subnet associations          Q. Find subnet association.         Subnet ID    Subnets without explicit association the following subnets have not been explicit association.	(0) ▼ sociations (4) citly associated with any route table	IPv4 CIDR No subnet a You do not have any es and are therefore associated with the	e main route table:	<b>V</b>	IPv6 CIDR	Edit subnet	1 > (2)
Explicit subnet associations          Q. Find subnet association         Subnet ID         Subnets without explicit ass         The following subnets have not been explic         Q. Find subnet association	(0) ▼ sociations (4) citly associated with any route table	IPv4 CIDR No subnet a You do not have any es and are therefore associated with the	e main route table:	v	IPv6 CIDR	Edit subnet	t associations
Explicit subnet associations          Q. Find subnet association         Subnet ID         Subnets without explicit association         The following subnets have not been explicit         Q. Find subnet association         Subnet ID	sociations (4) ⊽	IPv4 CIDR No subnet a You do not have any es and are therefore associated with the IPv4 CIDR	e main route table:	▽	IPv6 CIDR	Edit subnet	1         >         Image: Control of the second sec
Explicit subnet associations          Q. Find subnet association         Subnet ID         Subnets without explicit ass         The following subnets have not been explicit         Q. Find subnet association         Subnet ID         Subnet ID         Subnet ID         Subnet ID         Subnet ID         Subnet-Oeb915223c34882e5 / VPC-L	sociations (4) citly associated with any route table v UDAY-PrvSN2	IPv4 CIDR No subnet a You do not have any You do not have any IPv4 CIDR 192.168.1.0/24	e main route table:	⊽ ⊽	IPv6 CIDR IPv6 CIDR	Edit subnet	t associations
Explicit subnet associations          Q. Find subnet association         Subnet ID         Subnets without explicit ass         The following subnets have not been explicit         Q. Find subnet association         Subnet ID         Subnet ID         Subnet ID         subnet-Oeb915223c34882e5 / VPC-U         subnet-077b4cb213a7e921c / VPC-U	sociations (4) citly associated with any route table UDAY-PrvSN2 UDAY-PrvSN1	IPv4 CIDR No subnet a You do not have any es and are therefore associated with the IPv4 CIDR 192.168.1.0/24 192.168.0.0/24	e main route table:	▼	IPv6 CIDR IPv6 CIDR -	Edit subnet	t associations 1 > © v t associations 1 > © v
Explicit subnet associations          Q. Find subnet association         Subnet ID         Subnets without explicit ass         The following subnets have not been explicit         Q. Find subnet association         Subnet ID         subnet ID         subnet ID         subnet ID         subnet-0eb915223c34882e5 / VPC-L         subnet-077b4cb213a7e921c / VPC-U         subnet-0605a4e477d2cc0b4 / VPC-U	© sociations (4) citly associated with any route table UDAY-PrvSN2 UDAY-PrvSN1 UDAY-PrvSN1 UDAY-PuSN2	IPv4 CIDR No subnet a You do not have any es and are therefore associated with the IPv4 CIDR 192.168.1.0/24 192.168.3.0/24	e main route table:	▼	IPv6 CIDR	Edit subnet	t associations

10. Connect public route table to internet gate way by using **"Edit Route"** option and giving destination as 0.0.0.0/0 and gate way Target as the above created one **"VPC-UDAY-IGW"** 

estination		Target		Status	Propagated	
92.168.0.0/16		Q local	×	⊘ Active	No	
Q, 0.0.0.0/0	×	Q, igw-	×	-	No	Remove
		igw-058f2007229b3ee5c (VPC-UDAY-IGW)				Alter Ma

## 11. As a VPC requires a dedicated security group. Create a new security group with the name "**VPC-UDAY-SG**" for the above VPC **"VPC-UDAY".** Allow all traffic

are decarta						
ecurity oroug name						
VPC-UDAY-SG						
eme cannot be edited after creation.						
escription info						
VPC-UDAY-SG						
PC torfa						
Q, vpc-0c85da6ed826f1dc8		×				
ibound rules Info						
			This security group	has no inbound rules.		
			187 <sub>2</sub> , 1)			
Add rule						
utbound rules Info						
Putbound rules Info	Protocol	rfo Port range Info	Destination Info		Description - optional Infe	( Relation
Type tots SSH	Protocol TCP	ris Port range into	Destination Infe Custom V	Q	Description - optional infe	Delete
Type Info SSH	Protocol TCP	vis Portrange twise 22	Destination Infe Custom V	Q	Description - optional total	Delete
ALLICMP - 1944	Protocol     TCP     ICMP	els Portrange Inde 22 All	Destination Infe Custom V Anywhere-IPv4 V	Q. 0.0.0.0/0 X Q.	Description - optional w/w	Delete
butbound rules into Type into SSH All ICMP - IPV4	Protocol TCP TCP ICMP	efe Portrange terfe 22 All	Destination Infe Custern V Anywhere-IPu4 V	Q 0.0.0.0/0 X 0.0.0.0/0 X	Description - optional lofe	Delete
ALLICHP - IPv4	Protocol     TCP     TCP     ICMP     TCP     TCP	vie Portzange torie 22 All 0 - 65535	Destination toric Custom • Anywhere-IPv4 •	Q 0.0.0.0/0 X 0. 0.000/0 X	Description - optional inde	Delete Delete
All TCP	Protocol     TCP     TCP     TCP     TCP	ele Portrange sele 22 All 0 - 65535	Destination torie Custem V Anywhere-IPv4 V Anywhere-IPv4 V	Q 0.00.0/0 X 0.00.0/0 X 0.00.0/0 X 0.00.0/0 X	Description - optional tore	Delete Delete Delete
All TCP	Protocol     TOP     TOP     ICMP     TOP     TOP	de Portrange sels 22 All 0-65535	Destination twiv Custom V Anywhere-IPv4 V Anywhere-IPv4 V	Q 0.0.0.00 X 0.0.0.00 X	Description - optional toda	Delete Delete Delete
Att ICP	Protecel     TOP     TOP     ICMP     TOP     TOP	de Portrange twie 22. All 0-655555	Destination Infe Custom V Anywhere-IPv4 V Anywhere-IPv4 V	Q 0.0.0.00 X 0.0.0.00 X Q 0.0.0.00 X	Description - optional toda	Delete Delete Delete

12. Create an EC2 instance **"EC2-UDAY-Pub1"** in the public subnet and one EC2 instance **"EC2-UDAY-Prv1"** in the private subnet in the above VPC and Security Group

the second se	Info		Munches of Francisco -
azon EC2 allows you to create virtual owing the simple steps below.	I machines, or instances, that run on the	AWS Cloud. Quickly get started by	Number of instances Info
			Software Image (AMI)
Name and tags Info			Canonical, Ubuntu, 22.04 LTS,read ami-06984ea821ar0a879
Name			Virtual server type (instance type)
EC2-UDAY-Pub1		Add additional tags	t2.micro
			Firewall (security group)
<ul> <li>Application and OS Imag</li> </ul>	es (Amazon Machine Image)	nfo	Storage (volumes)
An AMI is a template that contains the launch your instance. Search or Browse	software configuration (operating system, app for AMIs If you don't see what you are looking	lication server, and applications) required to for below	1 volume(s) - B GiB
·			Free tier: In your first year includes
Q. Search our full catalog includ	ling 1000s of application and OS images		hours of t2.micro (or t3.micro in the Regions in which t2.micro is unavail
Quick Start			instance usage on free tier AMIs per month, 30 GIB of EBS storage, 2 mi
			Ds, 1 GB of snapshots, and 100 GB bandwidth to the internet.
Amazon macOS	Ubuntu Windows Red Ha	4 Q	
aws		Browse more AMIs	Cancel
Mac	upuncu" Microsoft	AWS, Marketplace and the Community	
Amazon Machine Image (AMI)	121 45.048		
Ubuntu Server 22.04 LTS (HVM), ami-06984ea821ac0a879 (64-bit (i88	, SSD Volume Type 5)) / ami-0920b0a391ffd8c95 (64-bit (Arm))	Free tier eligible	
Virtualization: hvm ENA enabled: tr	nie Root device type: ebs		
Description			
Canonical, Ubuntu, 22.04 LTS, am	d64 jammy image build on 2023-01-15		
Architecture Al	ni-06984ea821ac0a879	ffied provider	
34-Dit (X66) T			
<ul> <li>Key pair (login) Info You can use a key pair to securely conn the instance</li> </ul>	ect to your instance. Ensure that you have acce	ss to the selected key pair before you launch	
<ul> <li>Key pair (login) Info You can use a key pair to securely conv the instance.</li> </ul>	ect to your instance. Ensure that you have acce	ss to the selected key pair before you launch	
Key pair (login) ture     Vou can use a key pair to securely conn     the instance.	ect to your instance. Ensure that you have acce	ss to the selected key pair before you baunch	
Key pair (login) Infe You can use a key pair to securely conn the instance.     Key pair name - required uday-mumbai-key-pair	ect to your instance. Ensure that you have acce	es to the selected key pair before you launch	
Key pair (login) ture     You can use a key pair to socurity com     the instance.     Key pair name - required     uday-mumbai-key-pair      Network settings ture	est to your instance. Ensure that you have acce	ss to the selected key pair before you launch	
Key pair (login) toris     You can use a key pair to socurity can     the instance.      Cey pair name - required     uday-mumbai-key-pair      Network settings info     /PC - required info	ect to your instance. Ensure that you have acce	ss to the selected key pair before you launch	
Key pair (login) take     You can use a key pair to socurely can     the instance.      Cey pair name - required     uday-mumbai-key-pair      Network settings take     PC - required take     Yop-Co655528932765977 (VPC-UDL)     Soc name	ect to your instance. Ensure that you have acce	C Create new key pair	
Key pair (login) take     You can use a key pair to security can     the instance.     You can use a key pair to security can     the instance.     You can use a key pair to security     uday-mumbai-key-pair     Vetwork settings take     PC - required take     yop-o665520832/855977 (VPC-UD)     152.186.00/16     Juhnet take	ect to your instance. Ensure that you have acce	C Create new key pair	
Key pair (login) Inte You can use a key pair to socurely com the instance.  Cay pair name - required uday-mumbai-key-pair  Network settings Inte Network settings Inte PC - required Infe vpc-0655528932/6597 (Vpc-Up) 132168.0.0716 Subnet-067/d9565627281.ab9	ect to your instance. Ensure that you have acce AV)	C Create new key pair     C Create new key pair     C Create new key pair	
Key pair (login) Inte You can use a key pair to socurely com the instance.  Key pair name - required uday-mumbai-key-pair  Network settings Inte Network settings Inte PC - required Infe vpc - 0655520832/1659/7 (VPC-UD/ 132.168.0.016 Subnet Infe Subnet Cof/3055652733.1ab0 Wer's - vpc 0455551351837	ect to your instance. Ensure that you have acce NY) VPC-UDAY-PubS 6477177905682 mass available: 251 CIDR: 192.168.2.0(24)	ss to the safected key pair before you baunch C Create new key pair C Create new subnet [2]	
Key pair (login) two     We can use a key pair to society cont the instance.     Second	ect to your instance. Ensure that you have acce NY) VPC-UDAY-PubS 6477177905682 msss available: 251 CIDR: 192.168.2.0/24]	ss to the safected key pair before you baunch C Create new key pair C Create new subnet [2]	
Key pair (login) Inte You can use a key pair to socurely com the instance.     Cay pair name - required uday-mumbai-key-pair     Network settings Inte Network	ect to your instance. Ensure that you have acce NY) VPC-UDAY-PubS 647717909682 msss available: 251 CIDR: 192.168.2.0/24)	ss to the safected key pair before you baunch C Create new key pair C Create new subnet [2] V	
Key pair (login) inte You can use a key pair to socurely com the instance.  key pair name - required uday-mumbai-key-pair Network settings inte PC - required infs vgc-0655528932/f65977 (VPC-UD) 132.168.0.7/8 iabnet tofs subnet-067455656272781a05 WyC-vgc-065552893278597 OPC-UD 132.168.0.7/8 iabnet tofs subnet-067455656272781a05 WyC-vgc-06555289329378597 OPC-UD 132.168.0.7/8 iabnet tofs subnet-067455656272781a05 WyC-vgc-06555629329378597 OPC-UD 132.168.0.7/8 iabnet tofs subnet-06745565627281a05 WyC-vgc-06555829329378597 OPC-UD 132.168.0.7/8 iabnet tofs subnet-06745565627281a05 WyC-vgc-0655562939378597 OPC-UD 132.168.0.7/8 iabnet tofs subnet-06745565627281a05 WyC-vgc-06555829329378597 OPC-UD 132.168.0.7/8 iabnet tofs subnet-06745566672781a05 WyC-vgc-06555697100 WyC-vgc-065556567781 iabnet tofs subnet-067455667778 iabnet tofs subnet-06745566778 iabnet tofs subnet-0674556778 iabnet tofs subnet-0674556778 iabnet tofs subnet-0674556778 iabnet tofs subnet-0674556778 iabnet tofs subnet-0674556778 iabnet tofs iabnet tofs subnet-0674556778 iabnet tofs subnet-07455778 iabnet	ect to your instance. Ensure that you have acce NY) VPC-UDAY-PubS 6877817909682 reses available: 251 CIDR: 192.168.2.0(24) at control the traffic for your instance. Add role	It is the safected key pair before you baunch   Image: Comparison of the safected key pair        Image: Comparison of the safected key pair	
Key pair (login) into We can use a key pair to society cann the instance.	ect to your instance. Ensure that you have acce where the power instance is a second of the power instance is a second of the power instance is a second of the power instance. Add note at control the traffic for your instance. Add note is clear to a second of the power instance. Add note	es to the selected key pair before you baunch             •         •         •	
Key pair (login) ture     Wou can use a key pair to security can     the instance.     Key pair name - required     uday-mumbai-key-pair     Network settings turk     P Network settings     I Network settings     P Network settings     I Network settings     P Network settings     P Network settings     I Network settings     P Network settings     I Network setting     I Network setting     I Network settings     I Network setting	ect to your instance. Ensure that you have acce with the second	es to the selected key pair before you baunch          C       Create new key pair         Image: C       Create new subnet [2]         Image: C       Create new subnet [2]         Image: D       C         Image: D       C <t< td=""><td></td></t<>	
Key pair (login) inte We can use a key pair to socurity can the instance.     An equivalent of the socurity can the instance.     An equivalent of the socurity can Metwork settings into Network settings into Ne	ect to your instance. Ensure that you have acce WY WPC-UDAY-PubS G87817209882 msss available 251 CIDR: 192.16E.2.0(24) at control the traffic for your instance. Add role	es to the selected key pair before you baunch C Create new key pair C Create new subnet [2] es to allow specific to reach your oup	
Key pair (login) inte We can use a key pair to security com the instance.     An equivalent of the security com the instance.     An equivalent of the security com whether the security of the security com P. Network settings into P. Network	ect to your instance. Ensure that you have acce W/ WPC-UDAY-PubS 687817209882 ST CDR: 192.168.2.0(24) at central the traffic for your instance. Add rule Select existing security gr work interfaces. The name carrt be added after % papers, and/DM-@B==6.(3*)	es to the selected key pair before you baunch          Image: C       Create new key pair         Image: C       C         Image: N       C         Image: C       Create new subnet [2]         Image: C       C         Image: C <td></td>	
Key pair (login) two     We can use a key pair to socurely com     the instance.      You can use a key pair to socurely com     the instance.      Key pair name - required     uday-mumbai-key-pair      Network settings into     //C - required info	ect to your instance. Ensure that you have acce WY	es to the selected key pair before you baunch          Image: C       Create new key pair         Image: C       C	
Key pair (login) two     Wex can use a key pair to securely com     the instance.      You can use a key pair to securely com     the instance.      You can use a key pair to securely com     the instance.      You can use a key pair to securely com     the secure secur	ect to your instance. Ensure that you have acce W/ WPC-UDAY-PubS 607817209882 at central the traffic for your instance. Add rule at central the traffic for your instance. Add rule Select existing security gr work interfaces. The name carrt be added after 19, space. Add2/BL@E=46.05* SITT7-49:39.8882	es to the selected key pair before you baunch          Image: C       Create new key pair         Image: C       C	
Key pair (login) intermediate the security group in the instance.  Key pair name - required unday-mumbai-key-pair  Key pair name - required unday-mumbai-key-pair  Key pair name - required intermediate the security group part of the security group is a set of freewall unday the security group is a set of freewall under the stance.  Cey pair name - required intermediates the stanc	ect to your instance. Ensure that you have acce W/ WPC-UDAY-PubS G07817209882 more available 251 CDR: 192.16E.2.0(24) at control the traffic for your instance. Add rule Select existing security gr work interfaces. The name carrt be added after 192.98882	es to the selected key pair before you baunch       Image: C       C    <	
Key pair (login) two     We can use a key pair to securely core     the instance.     Security group rule a security core     the instance required     uday-mumbai-key-pair     Network settings inte     VPC - required inte     vpc-o6655220832/859/7 (VPC-UD)     192.168.0.0/16     Subnet-tof     subnet-tof     subnet-tof     subnet-tof     subnet-tof     subnet-tof     subnet-tof     subnet-tof     costspan=tof     the security groups inte     VPC-UDAY-S6     Enable     Inscreme - required     Information -	ect to your instance. Ensure that you have acce why instance Ensure that you have acce accentration of the second of the secon	es to the selected key pair before you baunch	
Key pair (login) intermediate the security creme the instance.      You can use a key pair to security creme the instance.      You can use a key pair to security creme the instance.      You can use a key pair to security creme the instance.      Network settings intermediate the security creme the security creme the security groups is a set of firewall network setting to the security group is a set of firewall network setting the security groups is a set of firewall network setting to the security group is a set of firewall network setting to the security groups is a set of firewall network setting to the security groups is a set of firewall network setting to the security group and the security group and the security group and the security groups rules      * Security group rule 1 (TCP, 22 type infe	ect to your instance. Ensure that you have acce why instance Ensure that you have acce accentration of the second of the secon	es to the selected key pair before you baunch	
Key pair (login) inte You can use a key pair to security com the instance.     Security group have a security com the instance.     You can use a key pair to security com the instance.     You can use a key pair to security com the security group have to security com Security group have - required When the security group is a set of firewall nakes the stands of the security group is a set of firewall nakes the stands of the security group is a set of firewall nakes the stands of the security group is a set of firewall nakes the stands of the security group is a set of firewall nakes the stands of the security group is a set of firewall nakes the stands of the security group is a set of firewall nakes the stands of the security group is a set of firewall nakes the stands of the security group is a set of firewall nakes the stands of the security group is a set of firewall nakes the stands of the security group is a set of firewall nakes the stands of the security group is a set of firewall nakes the stands of the security group is a set of firewall nakes the stands of the security group is a set of firewall nakes the stands of the security group is a set of firewall nakes the security group nakes a set of firewall nakes the security group nakes a security group is a set of firewall nakes the security group nakes a security group is a set of firewall nakes the security group nakes a security group is a security gro	ect to your instance. Ensure that you have acce NY) VPC-UDAY-PubS 687817909682 mss available: 231 CIDR: 192.168.2.0/24) at control the traffic for your instance. Add rold th	es to the selected key pair before you baunch	
Key pair (login) intermediate the security control to securit	ect to your instance. Ensure that yoo have acce VPC-UDAY-PubS 6877817909682 mess available: 251 CIDR: 192, 168,2,0/24] at control the traffic for your instance. Add rold at control the traffic for your instance. Add rold Select existing security gr work interfaces. The name cart be added after H9, spaces, and/08,40(==6,05* Select existing security gr solution of the select existing security gr solution of the	es to the selected key pair before you baunch	
Key pair (login) intermediate the security control to secontrol to security control to security control to security contr	ect to your instance. Ensure that yoo have acce VPC-UDAY-PubS 6877817909682 mess available: 251 CIDR: 192, 168.2.0/24) at control the traffic for your instance. Add rold soft interfaces. The name cart be added after 19. spaces, and/08.40[4=40,09* STIT7-49-39.8882 C.O.O.0/0) Protocol. infe TCP Source infe 	es to the selected key pair before you baunch	
Key pair (login) intermediate of the security control in the instance.  Key pair name - required uday-mumbai-key-pair  Network settings intermediate of the security control intermediate of the se	ect to your instance. Ensure that you have acce W/ WPC-UDAY-PubS GATR17909682 month interfaces. The nume cart be edited after at control the traffic for your instance. Add role Select existing security gr work interfaces. The nume cart be edited after papers, and/DB_02=4,03° Source info CD Source info Add CDDR, prefix list or security DD 0/0 X	es to the selected key pair before you baunch	
Key pair (login) initial Key pair (login) initial Key pair name - required uday-mumbai-key-pair  Network settings initia  Network settings initia  Network settings initia  Network settings initia  Cracessign public IP initia Enable Enable Enable Enable Craces security groups in tech initiation of the society of the soc	ect to your instance. Ensure that you have acce W/ WPC-UDAY-PubS GR78177998822 at control the traffic for your instance. Add role at control the traffic for your instance. Add role Select existing security gr work interfaces. The name cart be added after 9, 9, 900000 Entity - 40,00° Entity - 40,00° Source infe CDP Source infe CDP Source infe	es to the selected key pair before you baunch	

- 13. Now try to do SSH from public EC2 to Private EC2
- 14. Create a NAT Gateway in the public subnet to allow access to private subnet from outside. Allocate an elastic IP.

VPC > NAT gateways > Create NAT gateway

### Create NAT gateway Info

A highly available, managed Network Address Translation (NAT) service that instances in private subnets can use to connect to services in other VPCs, on-premises networks, or the internet.

	1 1 11 1			
reate a tag with a key of 'Name' an	d a value that y	ou specify.		
NAT-GW-UDAY	<i>a</i> .			
he name can be up to 256 characte	ers long.			
ubnet elect a subnet in which to create th	e NAT gateway.			
subnet-067d9565627281ab9	(VPC-UDAY-	PubSN1)	•	
Connectivity type ielect a connectivity type for the NA	T gateway.			
Public				
) Private				
Elastic IP allocation ID Info Assign an Elastic IP address to the N	AT gateway.			
eipalloc-0a0d73e388445eaet	2		•	Allocate Elastic IP
Additional settings Fags A tag is a label that you assign to an your resources or track your AWS cost	AWS resource.	Each tag consists of a key and an opt	cional value. You ca	n use tags to search and filter
_				
(ey		Value - optional	100.000	
Q Name	×	Q NAT-GW-UDAY	×	Remove

15. Now, edit the private route table to allow internet access by editing the routes and adding the 0.0.0.0 and NAT GW created above.