JNTUH – Cloud & DevOps

AWS Assignment-2 - Oct 27th, 2022

Arul Raj Natraj Rajgopal (arulraj.04@gmail.com)

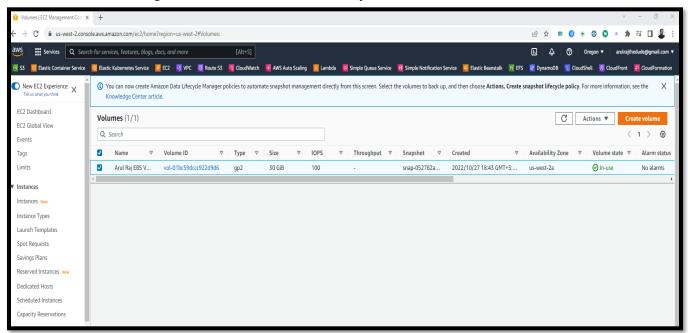
Assignment × 1. EC2 instances (2 machines - 1st machine - name, 2nd machine - sur name) 2. EBS volume 3. Snapshot 4. AMI 5. Load Balancer 6. VPC with 2 public subnets & 2 private subnet having Internet gateway and NAT gateway 7. VPC Peering Note: Follow the powerpoint for VPC & VPC peering architecture and reiterate. 1. User your names & Sur names with all the practical topics and share the screen shots and step wise information.

1. Create an **EC2 Instance**:

Created EC2 Instance as 'Arul Raj EC2'

🔋 Instances EC2 Managemen	rtG∞ x +
\leftrightarrow \rightarrow C \hat{m} us-west	-2.console.aws.amazon.com/et2/home?region=us-west-2#Instances:
aws iii Services	A Search for services, features, blogs, docs, and more [Alt+5]
🗟 S3 🧕 Elastic Container	Service 🧕 Elastic Kubernetes Service 🧧 EC2 🗃 VPC 🦉 Route 53 🦉 CloudWatch 🦞 AWS Auto Scaling 🦹 Lambda 🦉 Simple Queue Service 👸 Simple Notification Service 🧧 Elastic Beanstalk 🎘 EFS 📓 DynamoDB 📓 CloudShell 😽 CloudFront 🗃 CloudFromation
New EC2 Experience	X Înstances (1) Info
Tell us what you think	Q, Find instance by attribute or tag (case-sensitive)
EC2 Dashboard EC2 Global View	□ Name ▼ Instance ID Instance state ▼ Instance type ▼ Status check Alarm status Availability Zone ▼ Public IPv4 DNS ▼ Public IPv4 ▼ Elastic IP ▼
Events	□ Arul Raj EC2 i-0e5b79f85cd003229 ② Running ④ Q t2.micro ③ Initializing No alarms + us-west-2a ec2-35-92-133-185.us 35.92.133.185 -
Tags	·,
Limits	
▼ Instances	
Instances New	
Instance Types	
Launch Templates	
Spot Requests	

2. Create an Elastic Block Store:



Created EBS Volume along with the EC2 Instance as 'Arul Raj EBS Volume'

3. Create a **Snapshot Screenshot creation:** Created EBS Snapshot with 'Arul Raj EBS Snapshot'

🔋 Snapshots EC2 Management Co 🗙	+ · · · · · · ×
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aws Services Q Search	h for services, features, blags, docs, and more [Alt+5]
3 S3 S3 Elastic Container Service	🧕 Elastic Kubernetes Service 🧕 EC2 🦉 VPC 🧕 Route S3 🧕 CloudWatch 😽 AWS Auto Scaling 📜 Lambda 🥃 Simple Queue Service 👸 Simple Notification Service 🧧 Elastic Beanstalk 🗏 EFS 🖉 DynamoD8 🔞 CloudShell 👸 CloudFornt 👮 CloudFormation
New EC2 Experience X	Snapshots (1) C 🛛 Recycle Bin 🖉 Actions 🔻 Create snapshot
Tell us what you think	Owned by me Q. Search I
EC2 Dashboard EC2 Global View	□ Name
Events	Arul Raj EBS S snap-097d468e63e108a61 30 GiB Arul Raj EC2 Snapshot Standard 🥥 Completed 2022/10/27 19:00 GMT+5 ⊘ Available (100%) Not encrypted -
Tags	
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▼ Instances	
Instances New	
Instance Types	
Launch Templates	
Spot Requests	
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Reserved Instances New	

4. Create AMI Creation:

Created the AMI of my EC2 Instance as 'Arul Raj EC2 AMI'

👔 Images EC2 Management Consc 🗙	s: 🗙 🧃 Target groups EC2 Managemen: 🗴 📔 Your VPCs VPC Management C: 🗴 🔋 Internet gateways VPC Manage: 🗴 🕇	
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Reserved Instances New	Amazon Machine Images (AMIs) (1) Info	EC2 Image Builder Actions 🔻 Launch inst
Dedicated Hosts	Owned by me 🔻 🔍 Find AMI by attribute or tag	
Scheduled Instances	□ Name ▼ AMI ID ▼ AMI name ▼ Source ▼ Owner	▼ Visibility ▼ Status ▼
Capacity Reservations	Arul Raj EC2 AMI ami-0fc84ed5e97ee75a4 Arul Raj AMI EC2 747341298169/Arul Raj AMI EC2 747341298169/Arul Raj AMI EC2	69 Private 📀 Available @ Q
▼ Images	()	
AMIS New		
AMI Catalog		
▼ Elastic Block Store		
Volumes		
Snapshots		
Lifecycle Manager		
▼ Network & Security		
Security Groups	Select an AMI	
Elastic IPs		

5. Create Load Balancer:

Created Load Balancer as 'ArulRajEC2LB'

🎁 EC2 Management Console 🛛 🗙	🔋 Target groups EC2 Management 🗴 🔋 Your VPCs VPC Management Co. 🗴 🔋 👔 Internet gateways VPC Manager 🗴 🕇	v –
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New EC2 Experience X	Create Load Balancer Actions >	
EC2 Dashboard	Q search : ArulRajEC2LB Add filter	< < 1 to 1 of 1 >
EC2 Global View Events	Name NS name VPC ID VPC ID VAulability Zones VIC	✓ Created At ✓ Monitoring
Tags	AruRajEC2LB AruRajEC2LB-d5c8294a82c Provisioning vpc-04bf18d848107b802 us-west-2a network	October 27, 2022 at 7:49:03
Limits		
▼ Instances		
Instances New		
Instance Types		
Launch Templates		
Spot Requests		
Savings Plans		
Reserved Instances New		
Dedicated Hosts Scheduled Instances		
Capacity Reservations		
▼ Images AMIs New	Load balancer: ArulRajEC2LB	88

Load Balancer:

🔋 EC2 Management Console 🛛 🗙	😝 Target groups EC2 Managemen: 🗴 🔋 Your VPCs VPC Management Co 🗴 🔋 Internet gateways VPC Manager: 🗙 🕂
\leftrightarrow \rightarrow C \cong us-west-2.consc	ple.aws.amazon.com/ec2/home?region=us-west-2#LoadBalancers:search=ArulRajEC2LB;sort=loadBalancerName
aws Services Q Searc	h for services, features, blogs, docs, and more [Alt+S]
😨 S3 🛛 🙋 Elastic Container Service	🧕 Elastic Kubernetes Service 🙋 EC2 🧃 VPC 🧕 Route 53 🧧 CloudWatch 🦉 AWS Auto Scaling 🔀 Lambda 🐻 Simple Queue Service 🔞 Simple Notification Service 😢 Elastic Beanstalk
New EC2 Experience X Tell us what you think	Create Load Balancer Actions ~
EC2 Dashboard	Q search : ArulRajEC2LB
EC2 Global View Events	Name DNS name State VPC ID Availability Zones Type
Tags	ArulRajEC2LB ArulRajEC2LB-d5c8294a82c Provisioning vpc-04bf18d848107b802 us-west-2a network
Limits	
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Instances New	
Instance Types	
Launch Templates	
Spot Requests	

AMI:

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S3 6 Elastic Container Service	🥫 Eastic Kubernetes Service 🧕 EC2 🗃 VPC 🦉 Route 53 🦉 CloudWatch 🦉 AWS Auto Scaling 🐰 Lambda 🥘 Simple Queue Service 👸 Simple Notification Service 😒 Elastic Beanstalk 🎉 EFS 📓 DynamoDB 📓 CloudShell 🖏 CloudShell
Reserved Instances New Dedicated Hosts	Amazon Machine Images (AMIs) (1) info C C E2 Image Builder Actions ▼ Launch in Owned by me Q. Find AMI by attribute or tog
Scheduled Instances Capacity Reservations	Name ▼ AMI ID ▼ AMI name ▼ Source ▼ Owner ▼ Visibility ▼ Status ▼ Arul Raj EC2 AMI ami-0fc84ed5e97ee75a4 Arul Raj AMI EC2 747341298169/Arul Raj AMI EC2 747341298169 Private ⊘ Available Q, Q
▼ Images	d
AMIs New AMI Catalog	
Elastic Block Store	
Volumes Snapshots	
Vifecycle Manager	
Security Groups Elastic IPs	= Select an AMI

These are remaining from Assignment – 2.

Create VPC :

I have Created VPC and name with my name –"Arul Raj-vpc"

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	he aws.amazon.com/vpc/nome/region=us-west-2#vpc/eta	[Alt+S]			Er w	A ⑦ Oregon ▼ arulraithedudes0gmail.co
	Elastic Kubernetes Service 20 EC2 10 VPC 20 Route		🛛 Lambda 🛛 🚾 Simole Queue Servi	e 🐻 Simple Notification Service		• • •
New VPC Experience X	VPC > Your VPCs > vpc-04bf18d848107b802					
VPC dashboard	vpc-04bf18d848107b802	/ Arul Raj VPC-vpc				Actions V
Filter by VPC:	Details Info					
Virtual private cloud Your VPCs Subnets Route tables Internet gateways Egress-only internet gateways Carrier gateways DHCP Option Sets	VPC-ID VPC-ID Vpc-04bf18d848107b802 Terancy Default Default VPC: No Network mapping unit metrics Disabled	State OHCP option set dopt-08747672b41c2e518 IPv4 COR 10.0.0.0/16 Route 53 Resolver DN5 Firewal -	En M, rtt IP - 1 rule groups Ov	S hostnames abled -0aa1ef1727541c05 6 pool -reer ID 747341298169	DNS resolutio Enabled Main network acl-0d8U90ce IPv6 CIDR (Ne -	ACL
Elastic IPs Managed prefix lists Endpoints Endpoint services NAT gateways Peering connections	CIDRs Flow logs Tags	CIDR	Network Border Group	Pool	Str	atus
Security Network ACLs Security answer		10.0.0.0/16	-		0	Associated

Your VPCs VPC Management C × ← → C ■ us-west-2.consol	+	- 24-more					e ☆ ■ (- v + 0 0 + # == 1
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New VPC Experience	Your VPCs (2) Info						C	Actions Create VPC
VPC dashboard	Q Filter VPCs							< 1 >
EC2 Global View 🖄 🗤	Name	VPC ID	♥ State		♥ IPv6 CIDR		DHCP option set 🛛 🛡	Main route table 🛛 🛡
Filter by VPC:	Π -	vpc-07bd0f107e6bc23	a 🕢 Available	172.31.0.0/16	-		dopt-087d7672b41c2	rtb-0ce854a75beba5462
Select a VPC 🔻	Arul Raj VPC-vpc	vpc-04bf18d848107bl	802 Ø Available	10.0.0/16	-		dopt-087d7672b41c2	rtb-0aa1ef172754f1c05
Virtual private cloud	4							
Your VPCs								
Subnets								
Route tables								
nternet gateways								
Egress-only internet gateways								
Carrier gateways								
DHCP Option Sets								
Elastic IPs	Select a VPC above							

Create 2 Public Subnets & 2 Pvt Subnets:

I have created 2 Public Subnets and named as "Arul Raj VPC Subnet Public 1 & Arul Raj VPC Subnet Public 2" Also created 2 Private Subnets and named as "Arul Raj VPC Subnet private1 & Arul Raj VPC Subnet Private2"

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	Elastic	Kubernetes Service 🧧 EC2 🧃 VPC 🧕	Route 5	3 🧧 CloudWatch 🦉 AWS Auto	Scaling	Lambda	🧿 Simp	ole Queue Service 🛛 🧱 Simple Notificat	tion Ser	vice 🔛 Elastic Beanstalk	🕅 EFS	F DynamoDB	🔞 CloudShell 🕴	🗧 CloudFront 🛛 🛐 Cloud
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Select a VPC 🛛 🔻		-		subnet-079c73151418d315c		⊘ Available		vpc-07bd0f107e6bc231a		172.31.48.0/20		-		4091
Virtual private cloud		Arul Raj VPC-subnet-private1-us-west-	Za	subnet-049267b5313d37ac7		⊘ Available		vpc-04bf18d848107b802 Ar.		10.0.128.0/20		-		4091
Your VPCs		-		subnet-072d90e0e841af98d		⊘ Available		vpc-07bd0f107e6bc231a		172.31.32.0/20		2		4091
Subnets		Arul Raj VPC-subnet-private2-us-west-	2b	subnet-07276ca9b3ad5b22c		⊘ Available		vpc-04bf18d848107b802 Ar.	2	10.0.144.0/20		-		4091
Route tables		Arul Raj VPC-subnet-public2-us-west-2	ь	subnet-09362ee94d3ad7dcd		⊘ Available		vpc-04bf18d848107b802 Ar.	e	10.0.16.0/20		7		4090
Internet gateways		Arul Raj VPC-subnet-public1-us-west-2	a	subnet-0999590c11f9d2fdb		 Available 		vpc-04bf18d848107b802 Ar.		10.0.0/20		-		4090
Egress-only internet		-		subnet-00c5ca572792ad61d		⊘ Available		vpc-07bd0f107e6bc231a		172.31.16.0/20		-		4090
gateways	-													
Carrier gateways														
DHCP Option Sets														
Elastic IPs	Select	a subnet												

Create Route Table - RT:

I have created the RT and named as "Arul Raj rtb"

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	Elastie	: Kubernetes Service 🛛 🔯 EC2 🧃 VPC 🦉	Route 5	K 🙋 CloudWatch 🚮 AWS	Auto Sci	aling – 💹 Lambda 🧱 Simple Qu	eue Service 🛛 🔞 Simple Noti	fication Service	Elastic Beanstalk 🧮 EFS 🔋	Dynamo	DB 🔂 CloudShell	👿 CloudFront 🧧	Clou
New VPC Experience X	Rout	te tables (5) Info								C	Actions 🔻	Create route ta	able
VPC dashboard	Q	Filter route tables										< 1 >	0
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Select a VPC 🛛 🔻		-		rtb-0aa1ef172754f1c05		-		Yes	vpc-04bf18d848107b802	Ar	747341298169		
Virtual private cloud		Arul Raj VPC-rtb-private2-us-west-2b		rtb-0b07acbca3b84beb4		subnet-07276ca9b3ad5		No	vpc-04bf18d848107b802	Ariti	747341298169		
Your VPCs		Arul Raj VPC-rtb-private1-us-west-2a		rtb-093f096a40894a033	2	subnet-049267b5313d3	-	No	vpc-04bf18d848107b802	Ar	747341298169		
Subnets		Arul Raj VPC-rtb-public		rtb-07bf0bad3cfd58b06		2 subnets	- 2	No	vpc-04bf18d848107b802	Ar	747341298169		
Route tables													
Internet gateways													
Egress-only internet gateways													
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Create Internet Gateway – IGW:

I have created IGW and named as "Arul Raj igw"

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EC2 Global View 🔀 New		Name	V	Internet gateway ID	∇	State	∇	VPC ID	v	Owner							⊽
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Select a VPC 🛛 🔻		-		igw-0dc709be99801be91		O Attached		vpc-07bd0f107e6bc231	a	747341298169							
 Virtual private cloud 																	
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DHCP Option Sets								-							6		
Elastic IPs	Select a	in internet gateway	above														
Managed prefix lists																	

Create Elastic IPs:

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53 🚺 Elastic Container Service	Elastic Kubernete	s Service 🛛 🙀 EC2 🧃 VPC	🔯 Route 5	3 🔞 CloudWatch 👪	AWS Auto Scaling	🔝 Lambda	Simple	Queue Service	G Simple Notificatio	on Service 🧧 Elastic Beanstalk	EFS	🗑 DynamoDB 🔞 Clo	udShell 🔯	CloudFront 🔯	CloudFor
New VPC Experience X	Elastic IP ad	ldresses (2)									C	Actions 🔻	Allocate	Elastic IP addres	55
VPC dashboard	Q Filter Elost	tic IP addresses												< 1 >	۲
EC2 Global View 🛃 🏎	Name		V	Allocated IPv4 add	⊽ Type		Ψ	Allocation ID	~	Reverse DNS record		Associated instance	ID 🗢	Private IP addr	ress
Filter by VPC:	Arul Rai	i VPC-eip-us-west-2a		35.164.155.197	Public IP			eipalloc-0d1b6	38a0d24643d7	-		-		10.0.8.81	
Select a VPC 🛛 🔻	Arul Ra	j VPC-eip-us-west-2b		44.229.200.168	Public IP			eipalloc-0ac628	3fd90f65b081	-		-		10.0.24.221	
Virtual private cloud Your VPCs Subnets Route tables	4														
Internet gateways Egress-only internet gateways															
Carrier gateways															
DHCP Option Sets															
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NAT Gateway:

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🗟 S3 🧕 Elastic Container Service	📴 Elastic Kubernetes Service 🛛 🔯 EC2 🛛 🦉 VPC	🙋 Route 53	CloudWatch	🚰 AWS Auto Scaling	l 🚺 Lambda	Calimple Queue Service	Simple Notification Servic	e 📴 Elastic Beanstalk 🕱 EF	5 🔐 DynamoDB 🔯 CloudShe	🛚 🥳 CloudFront 🛛 🔢 CloudForm
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VPC dashboard	Q Filter NAT gateways									< 1 > ©
EC2 Global View 🔀 New	Name	⊽ N	AT gateway ID		Connectivit	⊽ State		♥ Elastic IP address ⊽	Private IP address ♥	Network interface ID
Filter by VPC:	Arul Raj VPC-nat-public1-us-west-2a	n na	t-Obd29bcfb72a1	44c6	Public	⊘ Available	-	35.164.155.197	10.0.8.81	eni-0f9e35562a39ea2e2 🛙
Select a VPC 🛛 🔻	O Arul Raj VPC-nat-public2-us-west-2t	n	rt-Odac220fb6b4d	2c87	Public	O Available	-	44.229.200.168	10.0.24.221	eni-Oc9dd428792ce5df8 🛙
▼ Virtual private cloud	•									,
Your VPCs										
Subnets										
Route tables										
Internet gateways										
Egress-only internet										
gateways										
Carrier gateways										
DHCP Option Sets	Select a NAT gateway									
Elastic IPs	Select a NAT gateway									

Network ACLs

B Network ACLs VPC Managemer X	+	× - 0
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🗑 S3 🔃 Elastic Container Service	🧱 Elastic Kubernetes Service 🙍 EC2 🔞 VPC 📓 Route 53 🔞 CloudWatch 🔞 AWS Auto Scaling 📕 Lambda 📓 Simple Queue Service 📓 Simple Notification Service 👼 Elastic Beanstalk 🚿 EFS	🗑 DynamoDB 🔞 CloudShell 👸 CloudFront 🧱 CloudForr
Route tables	Network ACLs (1/2) Info	C Actions V Create network ACL
Egress-only internet	Q Filter network ACLs	< 1 > (0)
gateways Carrier gateways	■ Name	Inbound rules count
DHCP Option Sets	Arul Raj NACLs acl-0d8b90ceae04774e2 4 Subnets Yes vpc-04bf18d848107b802 / Arul Raj VPC-vpc	2 Inbound rules 2 Outbound rules
Elastic IPs	- acl-0e6c0a354c6b092fb <u>4 Subnets</u> Yes vpc-07bd0f107e6bc231a	2 Inbound rules 2 Outbound rules
Managed prefix lists		•
Endpoints		
Endpoint services		
NAT gateways		
Peering connections		
▼ Security		
Network ACLs		
Security groups		
▼ Network Analysis	aci-0d8b90ceae04774e2 / Arul Raj NACLs	
Reachability Analyzer		
Network Access Analyzer	Details Inbound rules Outbound rules Subnet associations Tags	

VPC Instances:

instances EC2 Management Co: X	🔋 Subnets VPC Management Con 🗴	+						× - 0
← → C 🖷 us-west-2.conso	le.aws.amazon.com/ec2/home?region=	us-west-2#Instances:					ie 🖈 🖻 🔕 :	* 🛛 🗘 * 🖈 🖬
aws III Services Q Search	h for services, features, blogs, docs, and	more [Alt+5]					▶ \$ Ø Oreg	jon ▼ arulrajthedude@gma
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New EC2 Experience	Instances (4) Info					C Connect Instance stat	e 🔻 🛛 Actions 🔻	Launch instances
	Q. Find instance by attribute or to	g (case-sensitive)						< 1 > @
EC2 Dashboard EC2 Global View	Name	♥ Instance ID	Instance state 🛛 🔻	Instance type	Status check	Alarm status Availability Zone 🛡	Public IPv4 DNS	7 Public IPv4 ♥
Events	Arul Raj EC2 - Public1	i-06827271fc50094cf	⊘ Running ⊕Q	t2.micro	⊘ 2/2 checks passed	No alarms + us-west-2a	ec2-35-92-135-165.us	35.92.135.165
Tags	Arul Raj EC2 - Private1	i-0e5b79f85cd003229		t2.micro	2/2 checks passed	No alarms + us-west-2a	ec2-35-92-133-185.us	35.92.133.185
Limits	Arul Raj EC2 - Private2	i-04061b8b317e2ab2d		t2.micro	Ø 2/2 checks passed	No alarms + us-west-2b	ec2-35-92-209-43.us-w	35.92.209.43
▼ Instances	Arul Raj EC2 - Public2	i-0f97b698d9945c69e	Ø Running @Q	t2.micro	Ø 2/2 checks passed	No alarms + us-west-2b	ec2-34-221-145-143.us	34.221.145.143
Instances New	e -							
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Capacity Reservations								

Target Groups:

EC2 Management Console X	🔋 Target groups EC2 Manageme: 🗴 🔋 Your VPCs VPC Management C: 🗴 🔒 Internet gateways VPC Manage: 🗙 🕇	× -
← → C 🔒 us-west-2.consc	e.aws.amazon.com/ec2/home?region=us-west-2#TargetGroups:	ic 🗙 🛤 🔕 ± 😂 🖸 * 🇯
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New EC2 Experience X	⊘ Successfully created target group: <u>AnulRajRoct</u>	
EC2 Dashboard	EC2 > Target groups	
EC2 Global View Events	Target groups (1) Info	C Actions Create target group
Tags Limits	Q. Search or filter target groups	< 1 > @
▼ Instances	Name V ARN V Port V Protocol V Target type V Load balancer	v VPC ID v
Instances New	AruRajPort 🗗 amawselasticloadbalancin 80 TCP Instance AruRajEC2LB	vpc-04bf18d848107b802
Instance Types Launch Templates		
Spot Requests		
Savings Plans	=	
Reserved Instances New	0 target groups selected	×
Dedicated Hosts Scheduled Instances	Select a target group above.	
Capacity Reservations		