Create load balancer in AWS for Ezeelogin Cluster

680 Nesvin KN February 22, 2024 General 900

How to create load balancer in AWS for Ezeelogin Cluster setup for HA?

1. Login to the <u>AWS account</u> and search for load balancer with EC2 feature.

aws	Services	Q load balancers	×	Ð	\$ Ø	🙆 Mumbai 🔻	manu @ 0211-6552	-3905 🔻
=	Con		Search results for 'load'		to default la	yout + Add	widgets	6
			Features	See all 33 results ► 🔶				G
	# R	Services (15)				Create application	n i	
		Resources New	EC2 feature					
	^ر ي.	Documentation (23,144)						
	8	Knowledge Articles (238)	Load balancers		lications			
	ទីមទី	Marketplace (1,656)	🔞 Lightsail feature			<	1 >	

2. Create new load balancer.

aws Services Q Search	[Alt+S]	ב 👃 🖓 🎯 Mumbai 🕶 manu @ 0211-6552-3905 ע
New	EC2 > Load balancers	0
▼ Images AMIs	Load balancers (3)	C Actions V Create load balancer V
Elastic Block Store Volumes	Elastic Colo Balancing scales your tool balancer capacity acconnection in response to changes in incoming trainc Q. Filter load balancers	< 1 > ©
Snapshots	□ Name ▼ DNS name ▼ State ▼ VPC ID	▼ Availability Zones ▼ Type ▼ Date created ▼
Lifecycle Manager		
Security Groups		
Elastic IPs Placement Groups	4	•

3. Create Network Load Balancer from the three option.



4. In the basic configuration provide load balancer name.

aws	Services	Q Search [Alt+S]	٤	\$	0	۲	Mumbai 🔻	manu @	0211-6552-39	05 🔻
=	balancer rece the default a	ves a connection request, it selects a target based on the protocol and port that are specified in the listener configuration, and the routing rule specified as tion.								٦
	► How	Network Load Balancers work								9
	Basic co	nfiguration								ł
	Load bala Name must	ter name e unique within your AWS account and can't be changed after the load balancer is created.								
	ezeelogi	-gateway								
	Scheme Scheme can Interne An inter	t be changed after the load balancer is created. t-facing net-facing load balancer routes requests from clients over the internet to targets. Requires a public subnet. Learn more 🕐								
	O Interna An inter	I nal load balancer routes requests from clients to targets using private IP addresses.								
	IP address Select the t	type Info pe of IP addresses that your subnets use.								
	IPv4 Recomm	ended for internal load balancers.								
	O Dualst	ck IPv4 ad IPv6 addresses.								
S. Cloud	Networ Shell Feedbac	k mapping Info	© 2024, Amazon V	Web Servio	ices, Inc. or	its affiliate	es. Privacy	Terms	Cookie prefe	• ences

5. Click on **instance tab** with **another browser tab** and check for the **availability zone of the both primary and secondary**.

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EC2 D	ashboard	×	Instances (3) Info			Conn	ect Instance stat	e 🔻 🛛 Action	s 🔻 🛛 Launc	h instances	• ©
EC2 G	lobal View		Q Find Instance by attribu	ute or tag (case-sensitive)		A	ny state 🔻			$\langle 1 \rangle$	0
Event	s		□ Name 🖌 🔻	Instance ID	Instance state 🛛 🔻	Instance type 🔻	Status check	Alarm status	Availability Zo	ne 🔻 Pul	olic IPv4
▼ Instar	ıces										
Insta	nces		secondary	i-Oef61f47ab8aad9ff	⊘Running @ Q	t2.micro	⊘ 2/2 checks passed	View alarms +	ap-south-1a	ec2	-3-109-
Instar	nce Types		primary	i-0d6f2e9ffc07949af	⊘Running @ Q	t2.micro	⊘ 2/2 checks passed	View alarms +	ap-south-1a	ec2	-65-0-1
Laund	h Templates		4								•
Spot	Requests										
Savin	gs Plans										
Reser	ved Instances										
Capac	ity Reservations										
New											
aws		O Saard	h		[Alt+c]				L Mumbri -		FF2 7005 -
<u>_</u>	Services	C Searci			[All+3]					manu @ 0211-0	552=3505 ¥
=											٤
	The load bal	c mappin ancer routes t	IG Info traffic to targets in the selected subr	nets, and in accordance with your IP a	ddress settings.						9
	VPC	ntual antuata e	eloud (VDC) for your targets or you s		uith an internet enterror are a	nabled for colorian The c	closted VDC contribution	l after			
	the load bala	ancer is create	ed. To confirm the VPC for your target	ets, view your target groups 2.	vitn an internet gateway are e	nabled for selection. The s	elected VPC can't be changed	arter			
	- vpc-4a0f55	522				▼ C					
	IPv4: 172.3	1.0.0/16									
	Mappings										
	Select at leas Availability 2	st one Availab Iones. Zones t	pility Zone and one subnet for each z that are not supported by the load b	one. We recommend selecting at lea alancer or VPC can't be selected. Sub	st two Availability Zones. The nets can be added, but not re	load balancer will route tra moved, once a load balanc	affic only to targets in the sel er is created.	ected			
	🗸 ap-sou	th-1a (aps1	-az1)								
	Subnet										
	subne	t-88c989e0)			•					
	IPv4 ad	dress									
	Assign	ed by AWS		•							
		th-16 (arc1	-272)								
		ui-in (absi	1-423)								
	ap-sou	th-1c (aps1	-az2)								
کا Cloud	IShell Feedback	k					© 2024, Amazon Web	Services, Inc. or its affil	liates. Privacy	Terms Cooki	e preferences

6. Create target group using the link below Default action.

aws	Services	Q Search	[Alt+S]	D	¢	0	۲	Mumbai 🔻	manu @ C	0211-6552-39	05 🔻
=											<u>،</u> (
	Listener A listener is to its registe	rs and routing Info a process that checks for cor ered targets.	nection requests using the port and protocol you configure. The rules that you define for a listener determine how the load bala	ncer routes r	equests						0
	▼ List	ener TCP:80		Remo	ve						
	Protoco	ol Port	Default action Info Forward to Select a target group Create target group Image: Create target group	C							J
	Listen Conside Ada You can	er tags - optional r adding tags to your listener d listener tag add up to 50 more tags.	Tags enable you to categorize your AWS resources so you can more easily manage them.								
	Add lis	stener									
D cloud	► Load	balancer tags - op	ional	Amore 11/0	b Convice	s las or	its officiat	tos Debuseu	Torme	Cookio profe	-

a) In **basic configuration** select **Instances**, provide a **group name** and **specify port number**.

aws Services Q Search	[Alt+S]	۵	¢	0	۲	Mumbai 🔻	manu @ 0211-6552-3905 🔻
≡ EC2 > Target groups > Create ta Step 1 Specify group details	arget group Specify group details Your load balancer routes requests to the targets in a target group and performs health checks on the targets.						0
Step 2 Register targets	Basic configuration Settings in this section can't be changed after the target group is created.						
	Choose a target type Instances Supports load balancing to instances within a specific VPC. Facilitates the use of <u>Amazon EC2 Auto Scaling (2)</u> to manage and scale your EC2 capacity.						
	Target group name excloginargetgroup 						

b) In **Health checks** select **protocol** from drop down option and click on next.

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=		Health checks The associated load balancer periodically sends requests, per the settings below, to the registered targets to test their status. Health check protocol HTTP						0	•
		Health check path Use the default path of '/" to perform health checks on the root, or specify a custom path if preferred. /							
		Auvanced nearth these seconds							
		• Certain default attributes will be applied to your target group. You can view and edit them after creating the target group.							
		Tags - optional Consider adding tags to your target group. Tags enable you to categorize your AWS resources so you can more easily manage them. Cancel Next				-			

c) Select both the primary and secondary instances and click on Include as pending below and create target group.

aws	Services Q Search		[Alt+S]		ک \	0 0	Mumbai 🔻	manu @ 0211-6552-3905 🔻
Ξ	EC2 > Target groups > Create target g Step 1	roup Register targets This is an optional step to create a targ	et group. However, to ensure that	your load balancer routes traffic to this ta	arget group you must register your targ	ets.		© -
	Step 2 Register targets	Available instances (2/3) Q. Filter instances					< 1	0
		i-Od6f2e9ffc07949af	Name secondary primary	▼ State ⊘ Running ⊘ Running	Security groups launch-wizard-190 launch-wizard-189	▽	Zone ap-south-1a ap-south-1a	▼
		 ∢		2 solution				
				Ports for the selected instances Ports for routing traffic to the selected instance 80 1-65535 (separate multiple ports with common	ces. is)			
Σ. α.	udShell Feedback			Include as pending below	© 2024, Amazon Web Services,	, Inc. or its affilia	ates. Privacy	Terms Cookie preferences

7. Click on **refresh icon** and select the **new target group name**. Create **new listeners** if you need to map more ports and scroll down to the bottom and click on **create load balancer**.

Listener TCP:80		Remove	
Protocol Port	Default action Info		
TCP ▼ : 80	Forward to ezeelogintargetgroup Target type: Instance, IPv4	тср С	
1-0222	Create target group 🔀		
Listener tags - optional			
Consider adding tags to your listener.	Tags enable you to categorize your AWS resources so you can more easily mar	hage them.	

8. In the load balancer click on the Listeners tab and click on target group name.

aws Services Q Search	[Alt+S]	ב לא מי אונגע א גער אונגע
EC2 Dashboard X EC2 Global View Events	<pre>C2 > Load balancers > exeelogin-gateway ezeelogin-gateway</pre>	C Actions V
▼ Instances	▼ Details	
Instance Types Launch Templates Spot Requests Savings Plans Reserved Instances	Load balancer type Status Network \bigcirc Provisioning Scheme Hosted zone Internet-facing ZVDDRBQ08TROA	VPC IP address type vpc-4a0f5522 IPv4 Availability Zones Date created subnet-88c989e0 ap-south-1a (aps1-az1) February 22, 2024, 10:46 (UTC+05:30)
Dedicated Hosts Capacity Reservations New	Load balancer ARN D am:aws:elasticloadbalancing:ap-south-1:021165523905:loadbalancer/net/ezeelogin-gateway/a8c445317e0 d2	DNS name Info DN
▼ Images AMIs AMI Catalog	Listeners Network mapping Security Monitoring Integrations Attributes	ags
Elastic Block Store Volumes Snapshots Lifecycle Manager	Listeners (1) A listener checks for connection requests using the protocol and port that you configure. Traffic received by a Network Load Balanc Q. Filter listeners	er listener is forwarded to the selected target group.
Network & Security Security Groups Elastic IPs	□ Protocol:Port ▼ Default action ▼ ARN ▼ Security policy □ TCP:80 Forward to target group • excelogintargetgroup [2] □ ARN ▼ Not applicable	v Default SSL/TLS certificate v ALPN policy v Tags v Not applicable None <u>0 tags</u>
Placement Groups		© 2024, Amazon Web Services, Inc. or its afflicites. Privacy Terms Cookle prefere

9. In target groups click on **Attributes** and then **edit** attributes.

aws Services	Q Search		[Alt+S]			<u>ه</u> ک	Mumbai 🔻 manu @ 0211-6552-3905 👻
EC2 Dashboard EC2 Global View Events	×	EC2 > Target groups > ezeelogin ezeelogintargetgro	utargetgroup DUD				Actions V
 Instances Instance Types Launch Templates 		Details	rth-1:021165523905:targetgroup/ezee	logintargetgroup/dd3dbb651250220	8		
Spot Requests Savings Plans Reserved Instances Dedicated Hosts		Target type Instance Load balancer ezeelogin-gateway [7]	Protocol : Port TCP: 80		VPC vpc-4a0f5522	IP address type IPv4	
Capacity Reservations New Timages		Total targets	Healthy ② 2	Unhealthy O 	Unused \bigcirc 0	Initial	Draining O 0
AMI Catalog		 Distribution of targets by A Select values in this table to see correlation 	Availability Zone (AZ) esponding filters applied to the Registe	red targets table below.			
Snapshots Lifecycle Manager		Targets Monitoring H	ealth checks Attributes	Tags			Edit
DioudShell Feedback	•					© 2024, Amazon Web Services, Inc. or its affiliates.	Privacy Terms Cookie preferences

10. Enable stickiness and Cross-zone load balancing to off and save changes.

aws	Services Q Search [Alt+S]				۶.	¢	0	٥	Mumbai 🔻	manu @	0211-6552-3	905 🗸
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	Proxy protocol v2 Before you enable proxy protocol v2, make sure that your application targets can process proxy protocol headers otherwise your application might break.											9
	Preserve client IP addresses Preserve client IP addresses and ports in the packets forwarded to targets.											
	Target selection configuration											
	Stickiness Info Stickiness allows the load balancer to bind a user's session to a specific target within the target group.											ų
	Itum on stickiness Not compatible with the Weighted random routing algorithm. Can't be turned on if Cross-zone load balancing is off.											
	Cross-zone load balancing Info Cross-zone load balancing can be configured for each target group or inherited from the load balancer.											
	Off The load balancer sends traffic to targets in each zone independently.											
	Target group health requirements Info Specify the target group health requirements and the resulting actions when the minimum is not met.											
	Cancel Save changes	•	-									
S. Cloud	ihell Feedback			© 2024, Ar	mazon We	eb Service	es, Inc. or	its affiliates.	Privacy	Terms	Cookie pref	rences

11. In the load balancers, **copy the DNS name and access the link with a browser**. It will direct to the primary or secondary node based on the server load.

aws Services Q Searc	h [Alt+S]
EC2 Dashboard X EC2 Global View Events	EC2 > Load balancers > ezeelogin-gateway ezeelogin-gateway C Actions ▼
▼ Instances	▼ Details
Instance Types Launch Templates Spot Requests Savings Plans Reserved Instances Dedicated Hosts	Load balancer type Status VPC IP address type Network Provisioning ypc-4a0/5522 IP IP address type IP addr
Capacity Reservations New Images AMIs	y/asc445317e016fd2 Listeners Network mapping Security Monitoring Integrations Attributes Tags
AMI Catalog Elastic Block Store Volumes	Listeners (1) C Actions V Add listener
Snapshots Lifecycle Manager • Network & Security	Q. Filter listeners < 1 > ⊚ □ Protocol:Port ▼ Default action ▼ ARN ▼ Security policy ▼ Default SSL/TLS certificate ▼ ALPN policy ▼ Tags
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Online URL:

https://www.ezeelogin.com/kb/article/create-load-balancer-in-aws-for-ezeelogin-cluster-680.html