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<u>AWS</u>

Here we discuss 4 type of Amazon Web Service component:

• EC2 (Here we discuss Instance, AMIs, Load balancer (+ target group), Auto Scaling (+ Template))



• S3 (Here we discuss only S3 bucket. In bucket Charge applicable to file view, download)



Remember:

- In EC2 when we create *instance*, *load balancer*, *target group* and *auto scaling (sir said free)* which will be charged by aws but AMIs (Image), Launch Template are free
- When need to terminate instance check also volume terminate or not (otherwise charged will be apply)
- When need to terminate AMIs then also check snapshot terminate or not (otherwise charged will be apply)

(I) EC2 How to create an **EC2** instance:

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New EC2 Experience X Tell us what you think X EC2 Dashboard EC2 Global View Events V Instances	Instances Info Q. Find instance by attribute or tag (case-sensitive) Name Instance ID	C Connect 1. Select here to Ci Instance state Instance type No instances You do not have any instances in this Launch instances	Instance state V Acti reate new instan pe V Status check s region	ons V Launch instances V CC ©
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▼ Images				
CloudShell Feedback Lan	iguage	© 2023, Am	azon Web Services, Inc. or its affiliat	tes. Privacy Terms Cookie preferences
		next		
EC2 > Instances > La	aunch an instance		Summary	
Launch an in	stance Info 3. Sele	ect 1 instance (more ins	stance more cost	t)
Amazon EC2 allows you t	o create virtual machines, or instances, that run on the AWS	Cloud. Quickly get started by	1	
following the simple step	is below.			
Name and tags	4. Give a name here	Add additional tags	Software Image (AMI) Canonical, Ubuntu, 22. ami-053b0d53c279acc90 Virtual server type (ins t2.micro	.04 LTS,read more
		next	Firewall (security group	p)
		next		
Q Search our	full catalog including 1000s of applice	ation and OS images		
Quick Start		S		
Amazon	macOS Ubunta Win	dows Red Hat	SUSE Li	0
Linux		icrosoft de Red Hat	SUS	Browse more AMIs Including AMIs from AWS, Marketplace and
Amazon Machine	e Image (AMI)			the Community
Ubuntu Server ami-053b0d53c2 Virtualization: hv	22.04 LTS (HVM), SSD Volume Type 79acc90 (64-bit (x86)) / ami-0a0c8eebcdd6 m ENA enabled: true Root device type:	6dcbd0 (64-bit (Arm)) ebs		Free tier eligible
Description Canonical, Ubun	ntu, 22.04 LTS, amd64 jammy image b	ouild on 2023-05-16		
Architecture	AMI ID			
64-bit (x86)	▼ ami-053b0d53c279a	acc90 Ver	ified provider	

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next

Instance type Info

t2.micro			Free tier eligible	
Family: t2 1	vCPU 1 GiB Memory	Current generation: true		All generations
On-Demand V	Vindows base pricing: 0.0)162 USD per Hour		,
On-Demand S	USE base pricing: 0.0116	5 USD per Hour		Compare instance types
On-Demand R	HEL base pricing: 0.0716	5 USD per Hour		compare instance types
On-Demand L	inux base pricing: 0.0116.	5 USD per Hour		

▼ Key pair (login) Info

You can use a key pair to securely connect to your instance. Ensure that you have access to the selected key pair before you launch the instance.

Key pair name - required	6. Create Key
vockey	C Create new key pair

Create key pair	×
Key pair name Key pairs allow you to connect to your instance securely.	
The name can include upto 255 ASCII characters. It can't include	ude leading or trailing spaces.
Key pair type Give name and then create	
RSA RSA encrypted private and public key pair	ED25519 ED25519 encrypted private and public key pair
Private key file format	
.pem For use with OpenSSH	
O .ppk For use with PuTTY	
When prompted, store the private key in a so your computer. You will need it later to com more 2	ecure and accessible location on nect to your instance. Learn
	Cancel Create key pair

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 Network settings 	Info	Edit	▼ Summary
Notwork Info		11. If need launch-wizrd-1	I rename the click <i>Edit</i>
Wetwork into			Number of instances Info
vpc-00c42fa39a377da23			1
Subnet Info			
No preference (Default sub	net in any availability zone)		Software Image (AMI)
Auto-assign public IP Info			Canonical, Ubuntu, 22.04 LTS,read more
Enable			ami-053b0d53c279acc90
Enable			
Firewall (security groups)	Info		Virtual server type (instance type)
A security group is a set of firew instance.	all rules that control the traffic for your instance. Add rules to	allow specific traffic to reach your	t2.micro
			Eirewall (security group)
 Create security group 	 Select existing security group 	,	New security group
We'll create a new security	proup called 'launch-wizard-1' with the following rul	est	iter scarty group
	9. Select this three		Storage (volumes)
Allow SSH traffic from	Anywhere _		1 volume(s) - 8 GiB
Helps you connect to your in	istance 0.0.0/0		
Allow HTTPS traffic from	n the internet		
To set up an endpoint, for e	cample when creating a web server		G Free tier: In your first year includes X
	the oternat		750 hours of t2.micro (or t3.micro in
To set up an endpoint, for e	cine internet comple when creating a web server		the Regions in which t2.micro is
and an anaparity for a			unavailable) instance usage on free
A Pules with source of	0.0.0.0/0 allow all IP addresses to access your instan	ce. We recommend setting	tier AMIs per month, 30 GIB of EBS
security group rules	to allow access from known IP addresses only	ce. we recommend secting	storage, 2 million IOs, 1 GB of
security group rules	to atom access from known in addresses only.		bandwidth to the internet
			bandwidth to the internet.
			10. Click Launch
 Configure storage 	Info	Advanced	Cancel Launch instance
			cancer Cabier Instance
1x 8 GiB	Root volume (Not encryo	oted)	Review commands
	, , , , , , , , , , , , , , , , , , ,		
		next	
aws III Services Q Seau	ch	next [Alt+5]	🔈 👌 ⊘ N. Virginia 🔻 devskill 🔻
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WS Iff. Services Q. Soot EC2 New EC2 Experience Tell us what you think X EC2 Dashboard EC2 G. Soot EC2 Dolahoard EC2 Global View X EC2 Global View Events X Instances Instances Instances Instance Types Launch Templates X EC2 Dashboard EC2 Services X EC2 Calobal View Events X EC2 EC2 Calobal View Events X EC2 EC2 Obalboard EC2 Global View X EC2 EC2 Dashboard EC2 Global View X EVents Instances Instances Instances Instances Instance Types Launch Templates Spot Requests Savings Plans Reserved Instances Dedicated Hosts Capacity Reservations Understances Dedicated Hosts Capacity Reservations X Images	ch Instances (1) info Find instance by attribute or tag (case-sensitive) Instance ID Linux i-08446ec5c66fe9101 Vait Select an instance Ch C Instances (1/1) info C Find instance by attribute or tag (case-sensitive) Table V Instance ID Linux i-08446ec5c66fe9101 Instance: i-08446ec5c66fe9101 (Linux) Details Security Networking Storage V Instance ID Instance ID Instance ID Instance ID Instance ID Instance ID Instance Security Networking Storage V Instance ID Instance Security Networking Storage	next (Alt+5) C Connect Instance Instance state Pending Pending Pending Instance type Pending Instance state Instance Instance<	Image: Status check Alarm status Availability Zone Status check Alarm status Availability Zone No alarms + us-east-1c Image: Status check Alarm status Availability Zone Image: Status check Alarm status Availability Zone Image: Status check Alarm status Availability Zone Image: Status check Alarm status Availability Zone Image: Status check Alarm status Availability Zone Image: Status check Alarm status Availability Zone Image: Status check Alarm status Availability Zone Image: Status check Alarm status Availability Zone Image: Status check Alarm status Availability Zone Image: Status check Alarm status Availability Zone Image: Status check Alarm status Availability Zone Image: Status check Alarm status Availability Zone Image: Status check Alarm status Availability Zone Image: Status check Alarm status Availability Zone Image: Status check Alarm status Availability Zone Image: Status check Alarm status

If we select Win click connect. W	dows OS then it will show this type of page after
click connect. W	<i>и</i> 10
Session Manager RDP client EC2 serial co	'e will select <i>RDP</i> nsole
Instance ID	
D i-0e83546c847fea988 (Demo)	
Connection Type	
Connect using RDP client	Connect using Fleet Manager
Download a file to use with your RDP dent and retrieve	To connect to the instance using Fleet Manage
	with SSM Agent 🔀
You can connect to your Windows instance using a remote de	sktop client of your choice, and by downloading and
running the RDP shortcut file below:	
running the RDP shortcut file below:	
running the RDP shortcut file below:	
running the RDP shortcut file below: Image: Download remote desktop file When prompted, connect to your instance using the following) details:
running the RDP shortcut file below: Image: Download remote desktop file When prompted, connect to your instance using the following Dublic DNS	g details:
running the RDP shortcut file below: Download remote desktop file When prompted, connect to your instance using the following Public DNS R ec2-54-167-140-166 compute-1 amazonaws com	g details: User name
running the RDP shortcut file below: Image: Download remote desktop file When prompted, connect to your instance using the following Public DNS Image: Performance of the state of the s	details: User name D Administrator

Instance ID		
🗇 i-0e83546c847fea988 (D	emo)	
(ey pair associated with this	instance	
🗇 demo		
Private key		
Either upload your private key file	or copy and paste its contents into the field below.	
🕅 Upload private key f	le	
Private key contents - option	¹ We upload private key pair what we create before	
Private key contents		
Through the second second		

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aws	Services	Q Search	[Alt+S]		D 4	0	N. Virginia 🔻	devskill
EC2								
Ξ	Instance II Di-0e83 Connectio) 546c847fea988 (Demo) п Туре	Windows Security Enter your credentials These credentials will be used to connect to er2-54-167-140-166 compute 1 amazonaws com	×				
	O Con Dowr your	nect using RDP client nload a file to use with your RDP client and retrieve password.	Administrator Then Enter pas	sword				
	You can co running th	nnect to your Windows instance using a rem ie RDP shortcut file below:	Remember me					
	신 Dov	wnload remote desktop file	OK Cancel					
	When pro	mpted, connect to your instance using the fol	L					
	Public DN	S	User name					
	பி er2-5	4-167-140-166 compute-1 amazonaws com	日 Administrator					



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🙆 EC2										
Ξ	EC2 > Insta	nces > i-08446ec5c66fe9101 >	Connect to instance							Â
	Connee	ct to instance տ								
	Connect to yo	our instance i-08446ec5c66fe9101	(Linux) using any of these options							
	EC2 Instar	ice Connect Session Manage	er SSH clight EC2 serial	console						
	Instance ID)	L4. Select SSH (Nov	v we back what happer	when conne	ectio	on w	ill be	2	
	🗗 i-0844	6ec5c66fe9101 (Linux)	on linux)							
	1. Ope	n an SSH client.								
	2. Loca	ate your private key file. The key us	ed to launch this instance is demo.p	em						
	3. Run	this command, if necessary, to ens chmod 400 demo.pem	ure your key is not publicly viewabl	e.						
	4. Con	nect to your instance using its Publ	ic DNS:							
	Ø	ec2-52-6-168-45.compute-1.amaz 15. CC	ppy example from h	ere: ubuntu@ec2-52 .	.computer-1	.am	azoı	naws	s.com	
<	Example:	"demo.pem" ubuntu@ec2-52-6-16	8-45.compute-1.amazonaws.com	>						~

B putty.exe	key lik key th	e this (If I have a en ignore this st	already have a specific priva ten)	te and public	
	Key ch	Public key for pastin	ig into OpenSSH authorized_keys file:		
		ssh-rsa AAAAB3NzaC1yc2 hWlhnwKNOTeB8- +G5E8r1SjtFIMgw N7tEij6BMMzxPQG	EAAAADAQABAAABAQCBENtyRQDFYX ISNcRndDWR0zXmSiRpZLS3gbyTkFeki Kpl80R8YMKMN5Zw8yXZcCaMXdcZTL icoQmbif91NcQwwS5jfbfAWdpNOSil0Imji	KPS2yKN79R7871r9mRbc wN4dIZLZcS90/mzQQmnI DY9As5VuI9PTFKGZ82Fblc GTBkNXXQjNJOc47j02F11	SucFwWEGZc1QsmjLp Bag YbcDvsHW4658/ABTD 0NA211pGwMqtPcSUo2
		Key fingerprint:	ssh-rsa 2048 SHA256 sUk AePIW2Xb+r	diXk5AQHcA6mqLeZD1Tki	Gv2OPBsNr6w
		Key comment:	imported-openssh-key		
		Key passphrase:			
		Confirm passphrase			
		Actions			
		Generate a public/p	rivate key pair		Generate
		Load an existing priv	vate key file		Load
		Save the generated	key	Save public key	Save private key
		Parameters			45
		Type of key to gene RSA	rate: ODSA OECDSA	OEdDSA	O SSH-1 (RSA)
		Number of bits in a	generated key:		2048
,	Colo Connect Data Prox SSH MSent Teln	ura ion a y al et	efault Settings lick this <i>SSH</i>	Load Save Delete	

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€ ec2-52-6-168-45.co	ompute-1.amazonaws.com - PuT	TTY CONTRACTOR	- 0	×
PuTTY	Security Alert		×	≥aed using
	The host key is not cached for th ec2-52-6-168-45.compute-1 ama You have no guarantee that the The server's ssh-ed25519 key fin	nis server: zonaws.com (port 22) server is the computer you think it is. ngerprint is:		
	ssh-ed25519 255 SHA256;d4VR If you trust this host, press "Accer connecting. If you want to carry on connectin "Connect Once". If you do not trust this host, press	1974gIYSoFixtc30/zVuFHXKvu9WNG+zgogYkdio spt" to add the key to PuTTY's cache and carry or rig just once, without adding the key to the cache. a "Cancel" to abandon the connection. 22. Click Accept	n press	×.
res H	elp More info Credenti GSSAPI TTY X11 ¥	Accept Connect Once	Tancel	
Abo	kut Help	Open Ca	ancel	

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sudo su apt-get update apt-get install -y apache2 cd var/www/html ls

vim hello.html i Press Esc and write :wq (We can see all directory using this) (Using this commad we update linux) (Using this commad we install apache) (We go to html directory) (We can see existing html here)

(We create a file using vim)
(press i for insert text)
(For exit vim)

Proot@ip-172-31-39-171: /var/www/html	_		\times
<html> <body> <hl>Hello World</hl></body></html>			^
 24. Write some html and exit from vim like this 			
			~
		- • •	-

🌣 Most Visited 💊 Getting Started 💊 Gettin	ng Started 🛛 🕀 Carnival::Selfcare Dash	C Other Bookmarks
** ** *** **	25. Now we search with hello.html then we will like	
Hello World	this	

🌣 Most Visited 💊 Getting Started 💊 Ge	etting Started 🕀 Carnival::Selfcare Dash						C Otl	her Bookmarks
aws Services Q Search		[Alt+S]		D	¢	⑦ N. Virg	jinia 🔻	devskill 🔻
0 EC2								
New EC2 Experience X	EC2 > Instances > i-08446ec5c66fe9101	26. Now	we Create a i	image fro	om a	instance		Â
EC2 Dashboard	Instance summary for i-08446ec5c66fe Updated less than a minute ago	29101 (Linux) Info	C Co	nnect	tance st	tate 🔻 🗛	ctions 4	\supset
EC2 Global View	Instance ID	Public IPv4 address		Private IPv4 a	Manag	ge instance state	2	
Events	i-08446ec5c66fe9101 (Linux)	52.6.168.45 open addr	ress 🗹	172.31.3	Instan	ice settings		F.
▼ Instances	IPv6 address	Instance state		Public IPv4 D	Netwo	orking		F
Instances	-			D ec2-52-6	Secur	ity		F.
Instance Types			Createrimage 🚽		Image	and templates		•
Launch Templates	Hostname type	Private IP DNS name (IPv4 o	Create template from	n instance	Monit	or and troubles	hoot	•
Spot Requests	IP name: Ip-172-31-39-171.ec2.internal	□ ip-172-31-39-171.ec2.ii	Launch more like this	5				_
Savings Plans	Answer private resource DNS name	Instance type		Elastic IP addr	esses			
Reserved Instances	IPv4 (A)	t2.micro		-				
Dedicated Hosts	Auto-assigned IP address	VPC ID		AWS Compute	Optimiz	er finding		
Capacity Reservations	D 52.6.168.45 [Public IP]	vpc-81497cfa (default)	2	Opt-in to A ndations.	WS Com	pute Optimizer	for recom	nme
▼ Images				Learn more	2			
AMIs 🗸	IAM Role	Subnet ID		Auto Scaling G	roup na	me		~

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🙆 EC2									
=	An image (also referred to as an AM	I) defines the programs and se	ttings that are appl	ied when you launch an EC2	instance. You can create a	n image from the co	nfiguration of an	existing instance	^
	Instance ID Di-08446ec5c66fe9101 (Linux 28. Give a ir Image name	nage name							
<	demo Maximum 127 characters. Can't be mo	dified after creation.							
	Image description - optional			4					
	Image description								- 1
	Maximum 255 characters								
	No reboot								
	Enable								
	Instance volumes								
	Storage type Device	Snapshot	Size	Volume type	IOPS	Throughput	Delete on termination	Encrypted	~
<									>
>- CloudSi	hell Feedback Language				© 2023, Amazon Web Serv	vices. Inc. or its affiliates	. Privacv Ter	ms Cookie pref	ferences

aws	Services	Q Search	ţ	lt+S]	٥	0 4 C) N. Virginia 🔻	devskill 🔻
EC2								
id volun	/dev/	▼ Create new snapshot fr ▼	8 0 EBS General P	arpose S ▼ 100 0	C 🗹 E	nable 🔛	Enable	
During optiona	the image cr l nat you assign	eation process, Amazon EC2 creates a sn	apshot of each of the above volumes	sarch and filter your resources or track y	our AWS costs.			
Tag ima Tag the ir	ge and snaps nage and the s	hots together napshots with the same tag.		O Tag image and snapshots Tag the image and the snapsh	separately ots with different tags.			
gs associ I d new t n add up t	ated with the	e resource.			27. Now	v click cre	ate a imag	je
						c	Cancel Crea	ate image

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🙆 EC2						
▼ Insta	ances	^	Amazon Machine Images (AMIs) (1) Inf	fo C C Recycle Bin	☑ EC2 Image Builder Actions ▼	Launch instance from AMI
Insta	ances ance Types		Owned by me 🔻 🔍 G. Find AMI by attribute of	or tag		< 1 > ©
Laur	ich Templates	- 6	🗌 Name 🖉 🛛 🔻 🛛 AMI ID		▼ Source	▼ Owner
Spot	Requests		ami-Offa00be243faa	ae97 demo	847888492411/demo	847888492411
Savi	ngs Plans	-				>
Rese	erved Instances					
Dedi	icated Hosts					
Capa	acity Reservations			6 -		
▼ Imag	jes		Select an AMI	_		⊚ ×
	29	. In Al	//Is we see our created image	ge and in AMI		
APT	catalog	Cate	<i>log</i> we can publish image			
▼ Elast	tic Block Store					
Volu	mes					
Snap	oshots					
Lifeo	ycle Manager	~				

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aws Services Q Searc	:h	[Alt+S]	🔈 💠 🕜 N. Virginia 🔻 devskill 🔻
🧧 EC2			
New EC2 Experience Tell us what you think EC2 Dashboard	Instances (1/1) Info Q Find instance by attribute or tag (case-sensitive) Instance ID Ins	C Connect Instance Stop inst Start inst	state ▲ Actions ▼ Launch instances ▼ Actions ■ Actions ▼ Actions ■ Actions
EC2 Global View Events	✓ Linux i-08446ec5c66fe9101	ORDER ORDER ORDER Reboot in Hibernat ORDER QQ t2.micro Hibernat	stance spassed No alarms + us-east-1c e instance
▼ Instances	33. Now we wil	Il terminate this instance (Chr	e instance Seck Volume auto shut or not)
^{Ins} ටීරී ^T රී ව් lect this (I Launch Templates	have already a image so we do Instance: i-08446ec5c66fe9101 (Linux)	n't need this) =	• ×
Spot Requests Savings Plans	Details Security Networking Storag	e Status checks Monitoring Tags	
Reserved Instances Dedicated Hosts	▼ Instance summary Info		
Capacity Reservations	Instance ID i-08446ec5c66fe9101 (Linux)	Public IPv4 address	Private IPv4 addresses
▼ Images AMIs ✓	IPv6 address -	Instance state O Running	Public IPv4 DNS ec2-52-6-168-45.compute-1.amazonaws.com





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The load balancer routes traffic to targets in the selected subnets, and in a	ccordance with your IP address settings.
default vpc-8149 36. Set a name IPv4: 172.31.0.0/16	Tranget groups 2.
Mappings Info lelect at least two Availability Zones and one subnet per zone. The load ba salancer or the VPC are not available for selection.	alancer routes traffic to targets in these Availability Zones only. Availability Zones that are not supported by the load
Mappings Info ielect at least two Availability Zones and one subnet per zone. The load ba aalancer or the VPC are not available for selection. us-east-1a (use1-az2) 38. Check both	alancer routes traffic to targets in these Availability Zones only. Availability Zones that are not supported by the load
Mappings Info ielect at least two Availability Zones and one subnet per zone. The load ba alancer or the VPC are not available for selection. us-bast-1a (use1-az2) 38. Check both us-east-1c (use1-az6)	alancer routes traffic to targets in these Availability Zones only. Availability Zones that are not supported by the load

Security group37 of Select previously created security group

A security group is a set of firewall rules that control the traffic to your load balancer. Select an existing security group, or you can create a new security group 🖄



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curity groups			
elect up to 5 security groups		• C]
unch winned 7	~		, ,
a-0b7924c8001f5d1e7 VPC: vpc-81497cfa	^		

• details equests to the targets in a target group and performs health checks on the targets.				^
• details equests to the targets in a target group and performs health checks on the targets.				
n be changed after the target group is created. P. Create a target group d balancing to instances within a specific VPC. th is Amazon EC2 Auto Scaling C to manage and scale your EC2 capacity. C addresses and network interfaces on the same instance. ity with microservice based architectures, simplifying inter-application communication. ts targets, enabling end-to-end IPv6 communication, and IPv4-to-IPv6 NAT.				
	be changed after the target group is created.	be changed after the target group is created.	be changed after the target group is created.	be changed after the target group is created. C. Create a target group balancing to instances within a specific VPC. this Amazon EC2 Auto Scaling C to manage and scale your EC2 capacity. Dalancing to VPC and on-premises resources. ting to multiple IP addresses and network interfaces on the same instance. Ity with microservice based architectures, simplifying inter-application communication. targets, enabling end-to-end IPv6 communication, and IPv4-to-IPv6 NAT.

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aws	Services	Q Search	[Alt+5]	0	N. Virginia	• devskill ▼
🛃 EC2						
=			 Offers the flexibility for a Network Load Balancer to accept and foute TCP requests within a specific VPC. Facilitates using static IP addresses and PrivateLink with an Application Load Balancer. 			ŕ
			Target group name 42. Set a name			
		\langle	DemoLB_TG			
			A maximum of 32 alphanumeric characters including hyphens are allowed, but the name must not begin or end with a hyphen.			
			Protocol Port			
			HTTP 🔻 : 80 💿			
			1-65535			
			VPC Select the VPC with the instances that you want to include in the target group.			
			default			
			vpc-81497cfa IPv4: 172.31.0.0/16			
			Protocol version			
			O HTTP1			
			Send requests to targets using HTTP/1.1. Supported when the request protocol is HTTP/1.1 or HTTP/2.			
			○ HTTP2			
እ. Cloud	Shell Feedbac	k Language	Sand converte to taxante verino. HTTD/2. Supported when the request centered is HTTD/2 as aDDC © 2023, Amazon Web Services. Inc. or its affiliates.	Privacy	Terms C	Cookie preferences

This is an optional step to create a target group. However, to ensure that your load balancer routes traffic to this target group you must register your targets.

Q Fitter resources by prope	ty or value		< 1 > @
Instance ID	▼ Name	▼ State	▼ Security groups
1-047412706ffa69c8	b Linux Server	⊘ Running	launch-wizard-3
 43. Set like this to te i-0b3315e5cc9a0811 	st (Optional) and then go to nex 6 Linux Server	xt page ⊘Running	launch-wizard-3
	2 sel Ports for the selected ii	lected	

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1-65535 (separate multiple ports with commas)	44. Select all instance and click Include
---	---



2 selections are now pending below. Include more or register targets when ready.

Review targets

Targets (2)				Show of the second s	only pending	Remove all pending
Q Filter r	esources by property or v	value					< 1 > ©
Remove	Health status 🔻	Instance ID	∇	Name	Port ⊽	State ⊽	Security groups ⊽

Review targets	2 selections are now pending below. Include more or register targets when ready. Review targets				
Targets (2) Q Filter resources by property	or value		Show or	nly pending	Remove all pending
Remove Health status ⊽	Instance ID ∇ N	Name	Port ⊽	State ⊽	Security groups
X Pending	i-047412706ffa69c8b L i-0b3315e5cc9a081f6 L	Linux Server	80	 ⊘ Running ⊘ Running 	launch-wizard-3
<		45	. Finally	press cr	eate

▼ Listener HTT	P:80			48 After creating To	raet Group cor	Remove
				here then read ar	nd select	ne
Protocol	Port	Default action	Info		(
HIP V	1-65535	Create tarnet	O I	a target group		
		A You must set	Demo	LBTG	HTTP	
Listener tags -	optional		Target	ype: Instance, IPv4		
Consider adding tag	s to your listener. Tags enab	ole you to categorize your A	AWS reso	urces so you can more easily manage them.		
Add listener	tag					
You can add up to 5	0 more tags.					
IOLB	• la	aunch-wizard-3		VPC vpc-81497cfa 🖸	• HTTP:80 defau	lts to
 Internet-facing 	S	g-0b7924c8001f5d1e7	Z	default	DemoLBTG 🔀	
• IPv4				us-east-1a subpat-0764433bd0b858656		
				subnet-0/10452b00b658655		
				 us-east-1c 		
				subnet-1fd02e43 🔀 default_public		
d-on services. ^E	dit			Tags ^{Edit}		
1				None		
the start of						
ributes						
Certain default	attributes will be applie	ed to your load balance	r. You c	an view and edit them after creating th	e load balancer.	
				47. P	ress create	
				Can	cel Create	load balancer
						70
) lead below	ré.					
> Load balance	rs					
> Load balance	rs : (1)					
Load balancers Load balancers Elastic Load Balancing	rs (1) scales your load balancer cap	acity automatically in respon	ise to cha	nges in incoming traffic.		
> Load balances Load balancers Elastic Load Balancing C Action	rs (1) scales your load balancer cap s Create load	acity automatically in respons	ise to cha	nges in incoming traffic.		
Load balancers Load balancers Load balancers C Action Q Filter by proper	rs (1) scales your load balancer cap s Create load ty or value	acity automatically in responsional statements of the second statement of the second statements	ise to cha	nges in incoming traffic.		(1)@
Load balancers Load balancers Clastic Load Balancing C Action Q Filter by proper	rs (1) scales your load balancer cap s Create load i ty or value	acity automatically in response balancer v 46.	ise to cha	nges in incoming traffic. t 2-3 minute to change statu	15	(1)@
Load balancers Load balancers Lastic Load Balancing C Action: Q Filter by proper Name	rs (1) scales your load balancer cap s Create load rty or value v DNS	acity automatically in response balancer 46. name	. Wai	nges in incoming traffic. t 2-3 minute to change statu State v VPC ID	JS ▼ Availabi	(1) @

0 load balancers selected

Select a load balancer above.

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New EC2 Experience	▼ Details			
	Load balancer type	Status	VPC	IP address type
EC2 Dashboard	Application	⊘ Active	vpc-81497cfa 🔼	IPv4
EC2 Global View	Scheme	Hosted zone	Availability Zones	Date created
Events	Internet-facing	Z35SXDOTRQ7X7K	subnet-	September 9, 2023, 21:11
r Instances			07fd432bd0b858655 🔀 us- east-1a (use1-az2)	(UTC+06:00)
Instances			subnet-1fd02e43 🖸 us-east-1c	
Instance Types			(use1-az6)	
Launch Templates	Load balancer ARN		DNS name lefe	
Spot Requests	arn:aws:elasticloadbalance	ing:us-east-1:847888492411:loadbalance	r/a DemoLB-487749586.us-east-1.e	lb.amazonaws.com (A Record)
Savings Plans	pp/DemoLB/51f3792cb0c15a	45 40 Now con	w this link and pasto this i	n browcor as a result
Reserved Instances		49. NOW COP	y this link and paste this i	in browser as a result
Dedicated Hosts		public ca	nnot understand which se	erver thay have
Capacity Reservations	Listeners and rules Net	twork mapping Security Mor	itoring Integrations Attributes	
Images				10
AMIE	Listeners and rules (1)	Info		

aws Services	Q Search	[Alt+S]	▶ 💠 ⊘ N. Virginia ▼ devskill ▼
EC2			
New EC2 Experience	×	Instances (2/2) Info C Connect Instance state	e 🔺 Actions 🔻 Launch instances 🔻 🏠
Text us whet you make		Q Find instance by attribute or tag (case-sensitive) Stop instance	< 1 > @
EC2 Dashboard		☑ Name ▼ Instance ID Instance state ▼ Instance	Alarm status Availability Zone
EC2 Global View		☑ Linux Server i-047412706ffa69c8b ⊘ Running @ Q t2.micro	s passed No alarms + us-east-1c
Events		☑ Linux Server i-0b3315e5cc9a081f6 ⊘ Running	s passed No alarms + us-east-1c
▼ Instances	<	c Terminale inst	ance
Instances	- 1	50. Remove all instance (Instance wil	I be auto create if we set
Instance Types		auto scaling)	
Launch Templates		Instances: i-047412706ffa69c8b (Linux Server), i-0b3315e5cc9a081f6 (Linux Server)	⊚ ×
Spot Requests			
Savings Plans	_	Monitoring	
Reserved Instances			
Dedicated Hosts			
Capacity Reservations			
▼ Images			
AMIs	~		~
Feedback Language		© 2023, Amazon Web Service	es, Inc. or its affiliates. Privacy Terms Cookie preferences

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EC2							
New EC2 Experience Tell us what you think	×	EC2 > Launch templates	51. Now we d	create launch template	for auto	scaling	© ^
EC2 Dashboard EC2 Global View		Launch templates Info		C Actions V	Create launch	template	
Events		Q Filter by tags or properties or search by k	eyward		< 1	> ⊚	
▼ Instances		Launch template ID				⊽ La	
Instance Types				I	⊾ Load	ling launch temp	
Launch Templates Spot Requests Savings Plans Reserved Instances Dedicated Hosts Capacity Reservations		Select a launch template	=			⊚ ×	
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Feedback Language				© 2023, Amazon Web Services, Inc. or its affil	iates. Privacy	Terms Cook	ie preferences

Page **19** of **43**

aws	Services	Q Search	[Alt+S]	D	N. Virginia 🔻	devskill 🔻
EC2						
=	EC2 > Laur	hch templates > Create launch template	▼ Su	mmary		١
	Creating a law a later time, T	launch template unch template allows you to create a saved instance configuration that car femplates can have multiple versions.	n be reused, shared and launched at	re Image (AMI) server type (instance type)	^	
	Launch	template name and description	- Firewal	ll (security group)	- 11	
	Launch ter DemoLT Must be unio	que to this account. Max 128 chars. No spaces or special characters like '&', ''', '@'.	- Storage	e (volumes)		
	A prod we Max 255 cha	ebserver for MyApp	3	Free tier: In your first year includes 750 hours of t2.micro (or t3.micro in the Regions in which	×	
	Auto Scali Select this if	ng guidance Info f you intend to use this template with EC2 Auto Scaling e guidance to help me set up a template that I can use with EC2 Auto	Can	icel Create launch te	emplate	

Recents My AMIs Quick Start	Summary
O Don't include in launch template O Owned by me Shared with me Amazon Machine Image (AMI)	Software Image (AMI) - Browse more AMIs Including AMIs from AWS, Marketplace and the Community Firewall (security group) -
demo ami-Offa00be243faae97 2023-09-09T 01:48.000Z Virtualization: hvm ENA enabled: true Root	device type: ebs
Instance type Info	Free tier: In your first year includes 750 hours of t2.micro (or t3.micro in the Regions in which

nce type		6	-17
nicro	54. Keep t2.micro	Free tier eligible	
ily: t2 1 vCPU 1	GiB Memory Current generation: true		All generations
Demand Windows b Demand SUSE base	ase pricing: 0.0162 USD per Hour pricing: 0.0116 USD per Hour	*	
Demand RHEL base	pricing: 0.0716 USD per Hour		Compare instance types
Demand SUSE base Demand RHEL base Demand Linux base	pricing: 0.0116 USD per Hour pricing: 0.0716 USD per Hour pricing: 0.0116 USD per Hour		Compare insta

Page **20** of **43**

You can use a key pai	r to securely connect to your instance. Ensure that you	have access to the selected key pair
before you launch the	e instance.	
Key pair name		
demo	56. Select existing key	Create new key pair
Firewall (security gr	oups) Info	
A security group is a set of instance.	of firewall rules that control the traffic for your instance. Add ru	les to allow specific traffic to reach your
 Select existing 	security group O Create security group	
Constitution of the		
Select security areas	16	-
Select security group		Compare security
laurnth-wizard-3 se	g-0b7924c8001f5d1e7 X	group rules
VPC: vpc-81497cfa	55. Select existing s	security group
Advanced network	rk configuration	
Advanced netwo	rk configuration	
selected AMI contains more insi mes from the AMI will be access	tance store volumes than the instance allows. Only the first 0 instance store sible from the instance	Free tier: In your first year includes 750 hours of t2.micro (or
selected AMI contains more insi mes from the AMI will be access Resource tags info	tance store volumes than the instance allows. Only the first 0 instance store sible from the instance	 Free tier: In your first year includes 750 hours of t2.micro (or 57. Press on create
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selected AMI contains more insi mes from the AMI will be access Resource tags info if Services Q Search ic Block Store mes shots ycle Manager rork & Security	tance store volumes than the instance allows. Only the first 0 instance store sible from the instance (Att+S] Amazon EC2 Auto Scaling helps maintain the	Gerstarted with EC2 Auto Scaling by creating an <u>Auto Scaling by creating an <u>Auto Scaling by creating an </u> </u></u></u></u></u></u>
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selected AMI contains more inst imes from the AMI will be access Resource tags info if Services Q Search is bots ycle Manager rork & Security rity Groups ic IPs ement Groups Pairs rork Interfaces Balancing Balancers et Groups 59. Now we Scaling	tance store volumes than the instance allows. Only the first 0 instance store sible from the instance [Att+S] Amazon EC2 Auto Scaling helps maintain the availability of your applications Auto Scaling groups are collections of Amazon EC2 instances that enable automatic scaling and fleet management features. These features help you maintain the health and availability of your applications. will create auto scaling group	Image: State of the state
selected AMI contains more insi imes from the AMI will be access Resource tags info iii Services Q Search ic Block Store mes ishots yde Manager vork & Security rity Groups ic IPs ement Groups Pairs vork Interfaces Balancers et Groups 59. Now we Scaling Scaling	tance store volumes than the instance allows. Only the first 0 instance store sible from the instance	Free tier: In your first year includes 750 hours of t2.micro (or 57. Press on create Cancel Create launch templ Create Auto Scaling group 8. Select here Bet started with EC2 Auto Scaling by creating an Auto Scaling group Create Auto Scaling group Description:

EC2 > Auto Scaling groups > Create Auto Scaling group

Step 1 Choose launch template or configuration	Choose launch template or co Specify a launch template that contains settings common to you currently use launch configurations, you might consider	nfiguration Info all EC2 instances that are launched by this Auto Scaling group. If migrating to launch templates.
Step 2 Choose instance launch options	Name	
Step 3 - optional Configure advanced options	60. Set a name Auto Scaling group name Enter a name to identify the group.	
Step 4 - optional Configure group size and scaling policies	Must be unique to this account in the current Region and no more	than 255 characters.
Step 5 - optional Add notifications	Launch template Info	Switch to launch configuration
Step 6 - optional	Launch template Choose a launch template that contains the instance-level settings security groups.	5, such as the Amazon Machine Image (AMI), instance type, key pair, and
Launch template	Info	Switch to launch configuration
Launch template Choose a launch template security groups.	that contains the instance-level settings, such as to 63. Select launch template what we	he Amazon Machine Image (AMI), instance type, key pair, and
DemoLT	created before	• C
Create a launch templ	ate 🖸	

Step 5 - optional	Create a VPC C 62 Select all	
Add notifications	Availability Zones and subnets Define which Availability Zones and subnets your Auto Scaling group can use in the chosen V	VPC.
Step 6 - optional	Select Availability Zones and subnets	
Add tags	ds-east-1a subnet-07fd432bd0b858655 (subnet X	
Step 7	172.31.16.0/20	
Review	us-east-1c subnet-1fd02e43 (default_public) × 172.31.32.0/20 Default	
	us-east-1c subnet-083cc24762f6badc3(subnet3) ×	
	172.31.64.0/20	2
	Instance type requirements Info	
	Instance type requirements info You can keep the same instance attributes or instance type from your launch template, or you choose to override the launch template by specifying different instance attributes or manual	ou can Ily adding
61	Instance type requirements Info You can keep the same instance attributes or instance type from your launch template, or yo choose to override the launch template by specifying different instance attributes or manual Attach an existing load balancer (but	ou can Ily adding
61	Instance type requirements info You can keep the same instance attributes or instance type from your launch template, or yo choose to override the launch template by specifying different instance attributes or manual 1. Attach an existing load balancer (but aws not show exact load balancer	ou can ily adding
61	Instance type requirements info You can keep the same instance attributes or instance type from your launch template, or yo choose to override the launch template by specifying different instance attributes or manual Attach an existing load balancer (but aws not show exact load balancer name)	ou can ily adding
61	Instance type requirements Info You can keep the same instance attributes or instance type from your launch template, or yo choose to override the launch template by specifying different instance attributes or manual 1. Attach an existing load balancer (but aws not show exact load balancer name)	ou can Ily adding
O No load balancer	Instance type requirements info You can keep the same instance attributes or instance type from your launch template, or yo choose to override the launch template by specifying different instance attributes or manual 1. Attach an existing load balancer (but aws not show exact load balancer name) Attach to an existing load	ou can Ily adding
O No load balancer Traffic to your Auto Scaling group	Instance type requirements info You can keep the same instance attributes or instance type from your launch template, or yo choose to override the launch template by specifying different instance attributes or manual Attach an existing load balancer (but aws not show exact load balancer name) Attach to an existing load balancer Attach to a new loa balancer	ity adding
No load balancer Traffic to your Auto Scaling group will not be fronted by a load balancer	Instance type requirements info You can keep the same instance attributes or instance type from your launch template, or yo choose to override the launch template by specifying different instance attributes or manual Attach an existing load balancer (but aws not show exact load balancer name) Attach to an existing load balancer Choose from your existing load Choose fr	u can Ily adding
 No load balancer Traffic to your Auto Scaling group will not be fronted by a load balancer. 	Instance type requirements Info You can keep the same instance attributes or instance type from your launch template, or yo choose to override the launch template by specifying different instance attributes or manual Attach an existing load balancer (but aws not show exact load balancer name) Attach to an existing load balancer Choose from your existing load balancer Quickly create a basic I balancer to attach to y Scaling orgin.	u can Ily adding Id Ioad Ioad

Attach to an existing load balancer



	lealth checks
0	eaith checks increase availability by replacing unhealthy instances. When you use multiple health checks, all are evaluated, and it ne fails, instance replacement occurs.
E	C2 health checks
0	Always enabled
65	5 Turn on
A	dditional health check types - optional Info
A	dditional health check types - optional Info Tun on Elastic Load Balancing health checks Recommended
A	dditional health check types - optional Info Tury on Elastic Load Balancing health checks Recommended Elastic Load Balancing monitors whether instances are availaple to handle requests. When it reports an unhealthy instance, EC Scaling can replace it on its next periodic check.
	dditional health check types - optional Info Tup on Elastic Load Balancing health checks Recommended Elastic Load Balancing monitors whether instances are available to handle requests. When it reports an unhealthy instance, EC Scaling can replace it on its next periodic check. Image: Second Scaling will start to detect and act on health checks performed by Elastic Load Balancing. To

furn on VPC Lattice health checks

Group size - optional Info Specify the size of the Auto Scaling group by changing the desired capacity. You can also specify minimum and maximum capacity limits. Your desired capacity must be within the limit range. Desired capacity 66. Set how many instance auto create \$ 2 Minimum capacity

Maximum capacity 1

1

3

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	 Target racking scaling poli- Choose a desired outcome and I policy to add and remove capac that outcome. 	cy eave it to the scaling ity as needed to achieve	○ None		
Sc	aling policy name				
T	larget Tracking Policy				
Me Me	k etric type Info anitored metric that determines if res tter scaling performance.	ource utilization is too low or h	igh. If using EC2 metrics, i	consider enabling detailed mo	onitoring for
A	Average CPU utilization		•		
	50 67. Make	this 80%			
▼ Noti	fication 1			Remove	
Choose an	c SNS topic to use to send notifications	i			
aspnetb	o6topic (jalal.exe@gmail.com)		•		
Creat	e a topic	Opt	ion: This is for mail ifiation		
Notify sub: Launce Termi	scribers whenever instances th inate				
 Fail to Fail to 	o launch vo o terminate				
Add noti	ification				
		Cancel	Skip to review	Previous Ne	xt
		[Alt+S	1	► ♦ Ø	N. Virginia 🔻 d
Servi	ices Q Search				
C2 EC2 >	Auto Scaling delete instance acc	alling. If we idently or			
c2 EC2 > Auto	Auto Scaling groups,(1) info	alling. If we idently or o scaling	s Launch templates 🗹	Actions 🔻 Create Auto S	caling group
C2 EC2 > Auto	Q Search 69. Here is our auto sc Auto Scaling delete instance acc manuauly, this auto o Scaling groups (1) defo Created new instance Search your Auto Scaling groups	alling. If we idently or o scaling Ices C Launch configuration	Launch templates 🖸	Actions V Create Auto S	caling group
C2 EC2 > Auto	Auto Scaling groups (1) the manually, this auto Scaling groups (1) the manually, this auto Scaling groups (1) the manually Created new instant Search your Auto Scaling groups Name v	alling. If we cidently or o scaling ICes C Launch configuration Launch template/configuration Z マ	Instances V Status	Actions ▼ Create Auto S	<mark>caling group</mark> (1)

(II) <u>S3</u> How to create an **S3** bucket:

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Amazon S3	× ^	Amazon	53	1.8					6
Buckets Access Points		► Ac	count snapshot rage lens provides visibility into storage	usage and activity trends. Learn more	[View Stor	age Lens dasi	hboard ct this	
Multi-Region Access Po Batch Operations IAM Access Analyzer fo	oints or S3	Bucket	tets (11) Info s are containers for data stored in S3. <u>Les</u> <i>Find buckets by name</i>	rn more 🖸	py ARN Empty	Delete	Create	bucket	>
Block Public Access set	ttings for		Name 🔺	AWS Region 🗢	Access	▽	Creation da	ite ⊽	
 This account Storage Lens 		0	batch4new	Europe (Frankfurt) eu- central-1	Bucket and objects not	public	December 9 22:48:56 (U	9, 2022, TC+06:00)	
Dashboards		0	devskill-dev-private-bucket	US East (N. Virginia) us-east-1	Bucket and objects not	public	October 2, 2 16:52:16 (U	2022, TC+06:00)	
AWS Organizations set	ttings	0	devskill-dev-public-bucket	US East (N. Virginia) us-east-1	A Public		October 2, 2 16:52:42 (U	2022, TC+06:00)	
Easture cootlight	~			© 2023,	Amazon Web Services, Inc. or i	ts affiliates.	Docombor 6 Privacy Te	erms Cookie	e preferences

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SEC2								
	Buckets are co General Pocket nam spnetbB Bucket name AWS Regio US East (P Copy settin Only the buc Choose	entainers for data stored in a. configuration 3. Se a	S3. Learn more 2 t a name bal namespace and follow the bucket ptional nfiguration are copied.	naming rules. <u>See rules for bucket nam</u>	ing 🖸	4. Se	t region glo	ه bal
E Cloud	Shell Feedback	k			© 2023, Amazon Web S	ervices, Inc. or its affiliates.	Privacy Terms	Cookie preferences

S' Tun	ning this setting on is the same as turning on all four settings below. Each of the following settings are independent of one anothe
	5. Uncheck all otherwise no work will be done
-0	3 will block public access to buckets and objects granted through <i>new</i> access control lists (ACLS) 3 will block public access permissions applied to newly added buckets or objects, and prevent the creation of new public access ACLs for existing buckets and objects. This setting doesn't change any existing permissions that allow public access to S3 resource using ACLs.
- 0	Block public access to buckets and objects granted through any access control lists (ACLs)
	S3 will ignore all ACLs that grant public access to buckets and objects.
- 🗆	Block public access to buckets and objects granted through <i>new</i> public bucket or access point policies 33 will block new bucket and access point policies that grant public access to buckets and objects. This setting doesn't change any existing policies that allow public access to S3 resources.
La	Block public and cross-account access to buckets and objects through <i>any</i> public bucket or access point
	policies S3 will ignore public and cross-account access for buckets or access points with policies that grant public access to buckets and objects.

optional (0)
se bucket tags to track storage costs and organize buckets. Learn more
associated with this bucket.
tag
It encryption Info le encryption is automatically applied to new objects stored in this bucket.
on type Info
er-side encryption with Amazon S3 managed keys (SSE-S3)
er-side encryption with AWS Key Management Service keys (SSE-KMS)
-Layer server-side encryption with AWS Key Management Service keys (DSSE-KMS) e your objects with two separate layers of encryption. For details on pricing, see DSSE-KMS pricing on the Storage tab of the on S3 pricing page.
7 Set encrytion also disable (if enable we can not see
53 Bucket Key for SSE-KMS reduces encryption costs by lowering calls to AWS KMS. S3 Bucket Keys aren't supported for DSSE-
see, charged applicable for
this, ony use this when client want)
lvanced settings
: Lock bjects using a write-once-read-many (WORM) model to help you prevent objects from being deleted or overwritten for a fixed to f time or indefinitely. Learn more [2]
able
able manently allows objects in this bucket to be locked. Additional Object Lock configuration is uired in bucket details after bucket creation to protect objects in this bucket from being deleted overwritten.

ġ	EC2						
≡	⊘ Suc To	ccessfully created bucket "aspnetb8" upload files and folders, or to configure additional bu	cket settings choose View details .			View details	×
		Storage lens provides visibility into storage usage and acti	vity trends. Learn more 🔀				
		Buckets (12) Info Buckets are containers for data stored in S3. Learn more		C Opy ARN Empty	Delete	Create bucket	r -
		Q Find buckets by name				< 1 > @	
		9. Now enter this bucket	AWS Region .	Access +	Creation date		~
		aspnetb8	US East (N. Virginia) us-east-1		September 16, 2 (UTC+06:00)	2023, 19:36:00	

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EC2									
=	Objects	Properties Permissions	Metrics Management Access Points						٢
	Objects Objects are	(0) the fundamental entities stored in Amazon	S3. You can use <u>Amazon S3 inventory </u> to get a list of all objects in your bucket. For o	thers to 100 ss 611 Ck	on c	reat	te fol	der	
	C	Copy S3 URI Copy U	RL 🗄 Download Open 🖾 Delete Actions	Create folder		T Up	load		
	Q. Find	objects by prefix					<	1 > @	
	N	ame 🔺 T	ype ♥ Last modified ♥ Siz	ze	~	St	orage cla	ass 🔻	-
			No objects						
			You don't have any objects in this bucket.						
			Lt uplead						
2000									
Cloud	iShell Feedbac	k	© 2023, Ama	zon Web Services, Inc. or i	ts affiliate	5.	Privacy	Terms Coo	kie preferences
aws	Services	Q Search	[Alt+S]	Ŀ	¢	0	۲	Global 🔻	devskill 🔻
EC2									0
_	Amazon S3	<u>Buckets</u> > <u>aspnetb8</u> > Create	folder						Ŭ
	Create	folder Info							
	Use folders to followed by a	group objects in buckets. When you slash (/). This object then appears as	create a folder, S3 creates an object using the name that you specify folder on the console. Learn more						
	If you gran	r bucket policy might block folder c bur bucket policy prevents uploading ntees, you will not be able to create a figuration to upload an empty folder	reation objects without specific tags, metadata, or access control list (ACL) folder using this configuration. Instead, you can use the upload and specify the appropriate settings.						
	Folder								
	11. Set	a name	Le contra c						
	Enter fold	der name	/						
	Folder name	s can't contain */". <u>See rules for naming</u> 🔽							
Cloud	Shell Feedback	k	© 2023, Amaz	on Web Services, Inc. or it	s affiliate	s. F	Privacy	Terms Cool	de preferences

rve	r-side encryption protects data at rest.
0) The following encryption settings apply only to the folder object and not to sub-folder objects.
erv	er-side encryption
D	o not specify an encryption key
Т	he bucket settings for default encryption are used to encrypt the folder object when storing it in Amazon S3.
s	pecify an encryption key
Т	he specified encryption key is used to encrypt the folder object before storing it in Amazon S3.
L	If your bucket policy requires objects to be encrypted with a specific encryption key, you must specify the same encryption key, when you create a folder. Otherwise, folder creation will fail
	same end yption key when you create a folder. Otherwise, folder creation with fait.
	12. Press on create

Page **27** of **43**

9 :	Successfully c	reated folder " <u>images</u>	5							
	aspnet	b8 Info								
	Objects	Properties F	ermissions Me	etrics Manag	Access Points					
	Objects	(1)								
	Objects Objects are t permissions.	(1) the fundamental entities s Learn more 🖸	tored in Amazon S3. You	i can use <u>Amazon S3 i</u>	nventory 🛛 to get a list of all object	ts in your bucket. For others t	to access your objects, ;	you'll need to exp	plicitly gra	nt them
	Objects Objects are to permissions.	(1) the fundamental entities s Learn more 🗗	tored in Amazon S3. You	a can use <u>Amazon S3 i</u>	nventory 🗹 to get a list of all object	ts in your bucket. For others i	to access your objects, Create folder	you'll need to exp	plicitly gra	int them
	Objects are t permissions.	(1) the fundamental entities s Learn more 2 Copy S3 URI	tored in Amazon S3. You	u can use <u>Amazon S3 i</u> U Download	nventory 🕻 to get a list of all object	ts in your bucket. For others I	to access your objects,	you'll need to exp	plicitly gra ad < 1	nt them
	Objects Objects are t permissions.	(1) the fundamental entities st Learn more 2 Copy S3 URI objects by prefix ame13.	tored in Amazon S3. You	u can use <u>Amaxon S3 i</u>	væntory 🗹 to get a list of all objec Open 🖾 Deleta V Last modified	ts in your bucket. For others i a Actions ▼ Size	to access your objects,	you'll need to exp	plicitly gra ad < 1 age class	s

Objects Properties

Objects (0) Objects are the fundamental entit	ties stored in Amazon S3. You can use	Amazon S3 inventory 🔀 to get a list of all objecte	in your bucket. For others to access y	13. Upload file our objects, you'll need to explicitly grant them	
C Copy S3 URI	① Copy URL 단	Download Open 🖾 Delete	Actions ▼ Creat	e folder	
Q Find objects by prefix				< 1	> @
Name	▲ Туре		▼ Size		
		No objects	his folder		
		Du don chave any objects in t	ins longer.		

		14. Add fi	e
(0)	Remove	Add files	Add folder
table will be uploaded.			
			< 1
▼ Folder	▼ Type		
	(O) table will be uploaded. v Folder	(O) Remove table will be uploaded. ▼ Folder ▼ Type	(0) table will be uploaded. ▼ Folder ▼ Type ▼ Size

Destination

Destination	
s3://aspnetb8/images/	
Destination details	
Bucket settings that impact new objects stored in the specified destination.	
Permissions	
Grant public access and access to other AWS accounts.	
This bucket has the bucket owner enforced setting applied for Object Ov access. Learn more 2	wnership. Use bucket policies to control
Properties	15. Press on upload
Specify storage class, encryption settings, tags, and more.	Cancel

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E FC							
_							
=	Upload succe	eded					
	view details t	Selow.	(uncertainty)		Collect		
	s3://aspn	eth8/images/		0.000(1)	Failed		
	55.7765pm	cubo, mages,	○ 1 file, 77.5 KB (100)	.00%)	O files, 0 B (0%)		
	Files and	folders Con	nguration				
	Files an	nd folders (1 T	otal, 77.5 KB)				
	Q Find	by name					< 1 >
16.	Click file						
	Name		Folder 🗢 Type		▼ Status		∇
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Step 3: Generate Policy

A policy is a document (written in the Access Policy Language) that acts as a container for one or more statements.

Add one or more statements above to generate a policy.

Page 30 of 43

"Id": "Policy1694871925695", "Version": "2012-10-17", "Statement": [
{ "Sid": "Stmt1694871922798", "Action": [25. We get auto generate json what shoud
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	Encryption	type Info			
	Server-side	e encryption with Amazon S3 managed keys (SSE-S3)			

0	Standard	Frequently accessed data (more than once a month) with milliseconds access	≥ 3 This is sa	ve storage type wł	nere we
0	Intelligent- Tiering	Data with changing or unknown access patterns	store file bill wil de	like this format. A epend on it	s a resu
0	Standard-IA	Infrequently accessed data (once a month) with milliseconds access	≥ 3	30 days	1
0	One Zone- IA	Recreatable, infrequently accessed data (once a month) stored in a single Availability Zone with milliseconds access	1	30 days	1
0	Glacie] Instant Retrieval	Long-lived archive data accessed once a quarter with instant retrieval in milliseconds	≥ 3	90 days	1
0	Glacier Flexible Retrieval (formerly	Long-lived archive data accessed once a year with retrieval of minutes to hours	≥ 3	90 days	-

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=	Amazon 53 > Bue	i <mark>kets</mark> > as	pnetb8								
	aspnetb8						We can se	t lifecycle. We ca	an move	file	
							one serve	r to another serv	er if we	set	
	Objects P	operties	Permissions	Metrics	Management	Access Points	at is				
						67					
	Lifecycle rul Use lifecycle rules t	es (0) o define actio	ns you want Amazon S	3 to take during ar	n object's lifetime such as	transitioning object	to another storage clas	s, archiving them, or deleting them	after a specified	period of time. <mark>Le</mark>	am
	C Vi	ew details	Edit	Delete	Actions 🔻 🕻 Cr	eate lifecycle ru	e				
	Lifecycl name	e rule	Status	Scope	Current vers actions	ion Nor acti	icurrent versions ons	Expired object delete markers	Incom uploa	plete multipar ds	t
						No lifecycle rule:					
					There are no	lifecycle rules fo	r this bucket.				
					C	reate lifecycle ru	le				

Page **32** of **43**

	Storage lens provides visibility into storage usage and	activity trends. <u>Learn more</u>		
E E [Buckets (12) Info Buckets are containers for data stored in S3. <u>Learn more</u> Q. Find buckets by name	2	C C Copy ARN Empty 28. If we want to delete we need to empty it first	Delete Create bucket e bucket then st < 1 > @
	Name 🔺	AWS Region	▼ Access ·	Creation date
(o aspnetb8	US East (N. Virginia) us-east-1	Objects can be public	September 16, 2023, 19:36:00 (UTC+06:00)
(O batch4new	Europe (Frankfurt) eu-central-1	Bucket and objects not public	December 9, 2022, 22:48:56 (UTC+06:00)
(O devskill-dev-private-bucket	US East (N. Virginia) us-east-1	Bucket and objects not public	October 2, 2022, 16:52:16 (UTC+06:00)
(O devskill-dev-public-bucket	US East (N. Virginia) us-east-1	A Public	October 2, 2022, 16:52:42 (UTC+06:00)
(O devskill-stage-private-bucket	US East (N. Virginia) us-east-1	Bucket and objects not public	December 6, 2022, 15:56:03 (UTC+06:00)
Ⅲ : 2	Services Q. Search	[Alt+S) 🗘 🕜 🎯 Global 🕶
	Storage lens provides visibility into storage usage and	activity trends. Learn more 🔽		1
B	Buckets (12) Info Juckets are containers for data stored in S3. <u>Learn more [</u> 2	5	C C copy ARN Empty	Create bucket
В				
B.	Q Find buckets by name]	delete bucket	v then we can able to
B.	Q. Find buckets by name Name	AWS Region	delete bucket ▼ Access ·	Creation date
в [_	Q Find buckets by name Name aspnetb8	AWS Region US East (N. Virginia) us-east-1	delete bucket	Creation date _h ▼ September 16, 2023, 19:36:00 (UTC+06:00)
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(III) <u>SIMPLE QUEUE SERVICE (SQS)</u> How to create **SQS**:

aws services O

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C2 EC2					
Ξ		Application integration			٩
		Amazon SQS		Get started	
		A message queuing servi	се	Learn how to use Amazon SQS by creating a queue, sending a message to the queue, and receiving and	
		Amazon SQS provides queues for high-throughput, system-to-system messag queues to decouple heavyweight processes and to buffer and batch work. Ama	ing. You can use azon SQS stores	processing the message.	
		messages until microservices and serverless applications process them.		I. Selet this	
				Pricing (US)	
		How it works		You can get started with Amazon SQS for free. All customers can make 1 million Amazon SQS requests for free each month. Some applications might be able to	
E Cloud	iShell Feedb	ack		© 2023, Amazon Web Services, Inc. or its affiliates. Privacy Terms Cookie pr	references

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At-least once delivery Best-effort ordering	not maintain serial, if need	 First-in-first-out delivery Exactly-once processing 		
	serial use FIFO)			
You can't change the que	eue type after you create a queue.		C ₂	
Name				
MyQueue 3.	Set a name			
A queue name is case-sensitive and ca	an have up to 80 characters. You can use alphanumeric c	haracters, hyphens (-), and underscores	s (_).	
Configuration Info				
Set the maximum message size, visibi	lity to other consumers, and message retention.			
Visibility timeout Info		Message retention perio	od Info	
30	Seconds 🛛	4	Davs	
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Amazon SQS / Queues / aspnetos		
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(IV) <u>DYNAMODB</u>

How to create DynamoDB:

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Here we use command Line instead of user interface to use AWS.



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Identity and Access Management (IAM)	×	User created successfully You can view and download the use	ser's password and email inst	ructions for signing in to	the AWS Management	Console.	View user 🛛 🗙
Q Search IAM		IAM > Users					
Dashboard		Users (3) Info An IAM user is an identity with long	-term credentials that is used to i	nteract with AWS in an acco	unt.	C Delete	Create user
 Access management 		Q Search. Click o	n user (What is c	reate someth	ings before)		< 1 > ©
User groups		User name	A Path	⊽ Group: ⊽	Last activity	▼ MFA ▼	Password age ▼
Roles		D promethe	1	0			
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60 EC2			
Identity and Acc Management (IA	ess ×	Created Last console sign-in September 29, 2023, 20:04 (UTC+06:00) - 11. Select security	
Q Search IAM		Permissions Groups Tags Security credentials Access Advisor	
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User groups		Filter by Type Q. Search All types Image: Comparison of the search of	۲
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Identity providers	O Grant	AmazonDynamoDBFullAccess AWS managed Directly	
EC2	Q Search		devskill 🕈
Identity and Acc Management (IA	ess × M)	No MFA devices. Assign an MFA device to improve the security of your AWS environment Assign MFA device	٢
Q Search IAM		10. Click on accesskey Access keys (0)	
Dashboard Access management		Use access keys to send programmatic calls to AWS from the AWS CLI, AWS Tools for PowerShell, AWS SDKs, or direct AWS API calls. You can have a maximum of two access keys (tertime or inactive) at a time. Learn more C Create access keys (tertime or inactive) at a time. Learn more C	
User groups Users		No access keys. As a best practice, avoid using long-term credentials like access keys. Instead, use tools which provide short term credentials. Learn more 🛂	
Roles Policies		Create access key	
Identity providers Account settings		SSH public keys for AWS CodeCommit (0)	
 Access reports Access analyzer 	÷	Actions V Upload SSH public key	



□
E AmazonAppStreamService AWS managed 0
Set permissions boundary - optional
Set a permissions boundary to control the maximum permissions for this user. Use this advanced feature used to delegate permission management to others. Learn more 🖸
Use a permissions boundary to control the maximum permissions You can select one of the existing permissions policies to define the boundary. 8. Click Next
Cancel Previous Nexting

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<u></u> EC2				
=	Permissions summary			< 1 > ③
	Name [2]	▲ Туре	▼ Used as	~
	AmazonDynamoDBFullAccess	AWS managed	Permissions policy	
	AmazonS3FullAccess	AWS managed	Permissions policy	
	AmazonSQSFullAccess	AWS managed	Permissions policy	
	Tags - optional Tags are key-value pairs you can add to AWS resources to	help identify, organize, or search for resources	s. Choose any tags you want to associa	te with this user.
	No tags associated with the resource.			
	Add new tag You can add up to 50 more tags.		12. Create	user now
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Identity providers	Use MFA to increase the security of your AWS environment.	Signing in with MFA requires an authentication	on code from an MFA device. Each use	r can have a maximum of
	8 MFA devices assigned. Learn more 12			
Step 1 Access key best practices & alternatives Step 2 - optionat Set description tag Step 3 Retrieve access keys	Set description to The description for this access key Description tag value Describe the purpose of this access confidently later. Maximum 256 characters. Allowed	ag - optional Info y will be attached to this user as a t key and where it will be used. A good de characters are letters, numbers, spaces r Cancel	tag and shown alongside the escription will help you rotate this epresentable in UTF-8, and: 15. Click hel Previous Crea	access key. access key = + - @ te access key
_				1.5
50 EC2				
Access key created				
This is the only time that the secret	access key can be viewed or downloaded. You o	cannot recover it later. However, you	u can create a new access key	any time.
Step 3 Retrieve access keys	Access key	Secret access key SQvglwbrQvavU4RktZkcB	8Ki+lD6jHOsSMmXSFTco <u>Hi</u> a	<u>le</u>
	Access key best practices			
	Never store your access key in p	plain text, in a code repository, or in	code.	
	Disable or delete access key wh	en no longer needed.		
	Enable least-privilege permission	ons.		
	Rotate access keys regularly.	14. We sho	uld download pass	word file
	For more details about managing a	access keys, see the best practices fo	or managing AWS access keys	5.
		(Download . Tile	Done

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