1. Create EC2 instance.

Services Q. Seorch for services, features, blogs, docs, and more	[Alt+S]		Ð	\$ Ø	Cregon 🕶	Rohitha
EC2 > Instances > Launch an instance		▼ Summary				í O
Launch an instance տ		Number of instances Info				
Amazon EC2 allows you to create virtual machines, or instances, that run on the AWS Clor following the simple steps below.	ud. Quickly get started by	1				
Name and tags Inte		Software Image (AMI) Amazon Linux 2 Kernel 5.10 AMIread more ami-od595311db5abb72b				
Name		Virtual server type (instance type)				
e.g. My Web Server	Add additional tags	t2.micro				
Application and OS Images (Amazon Machine Image) Info An ANA is a translate that contains the koftware configuration (operating system, application ser launch your instance. Search or Browse for ANs if you don't see what you are looking for below	ver, and applications) required to	New security group Storage (volumes) 1 volume(s) - 8 GiB				
Q. Search our full catalog including 1000s of application and OS images		Free tier: In your first year includes 750 Hours of 12.micro in the Regions in which 12.micro is the unavailability inclunce usage on five tier				
Quick Start		Cancel Launch instan	ce			

Once instance is created , select and go to connect.

New EC2 Experience	Instances (1/3) Info	C Connec	ct Instance state ▼ Actions ▼ Launch instances ▼
	Q. Find instance by attribute or tag (case-sensitive)		< 1 > @
ECZ Dashboard	Name V Instance ID	Instance state v Instance type v	Status check Alarm status Availability Zone v Public IPv4
Events	Rohitha N I-0d5c77b6d9af6f69e	@Running @.Q. t2.micro	⊘ 2/2 checks passed No alarms + us-west-2c ec2-54-203
Tags	Robitha i-02a7#5360ba950eb8		@ 2/2 checks passed No alarms + us-west-2c ec2-54-184
Limits	N Rohitha i-02b927b442455926a		⊘ 2/2 checks passed No alarms + us-west-2c ec2-18-237
orthorae	1		
Instances new			
nstance Types .aunch Templates	Instance: i-02b921b442455926a (N Rohitha)	=	ΘX
spot Requesta Savings Plans	Details Security Networking Storage	Status checks Monitoring Tags	
teserved instances tww	▼ Instance summary Info		
edicated Hosts cheduled instances	Instance ID Öl i-Ozb921b442455926a (N Rohitha)	Public IPv4 address. D 18.237,210,125 open address 🔀	Private IPv4 addresses D 172.31.8.32
mages	IPv6 address -	Instance state Running	Public IPv4 DNS
AMIS New	T .		ec2-18-237-210-125 us-west-2 compute amazonaws.com
Inack Locking for Discussion	Inchine? find it is the over Disfied Settions 12	0.7	022 Amazon Internet Services Private Ltd. or its affiliates

Go to SSH Client tab and copy SSH key and open windows powershell. Paste the SSH key and connect EC2 instance.

	200										
	dws	Services Q Search for s	ervices, features, blogs, d	ocs, and more	[Alt+S]			Σ	- ¢	0 0	lregon 🔻
	≡	EC2 Instance Connect	Session Manager	SSH client	EC2 serial console						
		Instance ID									
		D i-02b921b442455926a (N Re	ohitha)								
		1. Open an SSH client.									
		2. Locate your private key fi	ile. The key used to launc	th this instance is	Rohitha.pem						
		3. Run this command, if nec	essary, to ensure your ke	ey is not publicly •	viewable.						
		4. Connect to your instance	using its Public DNS:								
		ec2-18-237-210-125.us-	west-2.compute.amazor	aws.com							
		Example:									
		🗇 ssh -i "Rohitha.pem" ec2-use	er@ec2-18-237-210-125	5.us-west-2.comp							
		(i) Note: In most cases, the AMI owner has ch	the guessed user name is langed the default AMI u	s correct. Howeve Iser name.	eck if						
	Foodback	Lasting for long one establish	Tool 14 in the case of the Band Case	ions F A		Capital	8 2022 America late and Cons	ear Dobrates I and an inter offici	the Detur	a Tar	me Cook
	reeuback	Looking for language selection. P	na nai ale new onineo seu	angs 🖸			5 2022, Amazon internet Servi	ces Private Ltd. of its annu	tes. Priva	cy lei	iis Cooki
ዾ ec2-user@ip-172	2-31-8-32	:~									
PS C:\Users\DELL> PS C:\Users\DELL\ The authenticity ECDSA key fingerp Are you sure you Warning: Permanen	cd Des Desktop of host orint is want to otly add	<pre>ktop > ssh -i "Rohitha.pe 'ec2-18-237-210-125 SH4256:wVH64ZQt+DeS continue connecting ed 'ec2-18-237-210-1</pre>	m" ec2-user@ec2 .us-west-2.comp h1xLYqGsMG4CvhT ; (yes/no/[finge 25.us-west-2.cc	2-18-237-21 pute.amazon P10dJ3x1D3 erprint])? mpute.amaz	0-125.us-west-2.compute.a aws.com (18.237.210.125)' Q8ph50. yes onaws.com,18.237.210.125'	amazonaws.com ' can't be es ' (ECDSA) to	tablished. the list of know	n hosts.			
_ _ _) / Ama	zon Linux 2 AMI									

https://aws.amazon.com/amazon-linux-2/ 13 package(s) needed for security, out of 16 available Run "sudo yum update" to apply all updates. [ec2-user@ip-172-31-8-32 ~]\$

<u>ار</u>

2 root@ip-172-31-8-32:/home/ec2-user

[ec2-user@ip-172-31-8-32 ~]\$ uptime [ec2-user@ip-172-31-0-32 ~]\$ uptime
15:56:14 up 17 min, 1 user, load average: 0.42, 0.10, 0.03
[ec2-user@ip-172-31-8-32 ~]\$ sudo su
[root@ip-172-31-8-32 ec2-user]#

2. Create Elastic block storage:

Create a volume storage and attach storage to machine.

	B5 volume to attach to	o any EC2 instance i	in the same Availability Zo	ine.						1 0
100000000000000000000000000000000000000										
Volume setti	ngs									
Volume type Info	a									
General Purpose	e SSD (gp2)									
Size (GiB) Into										
100										
Min. 1 Gib, Max 163	384 GIB. The value must b	e an integer								
KOPS Info										
300 / 3000										
Baseline of 3 IOPS p	ser GB with a minimum of	F 100 10PS, burstable to	a 3000 IOPS.							
Throughput (MiB/	l/s) into									
Not applicable										-
Availability Zone	Info									
us-west-2c			•							
Snapshot ID - out	tional Info									
Don't create uni	lume from a second bot		- 0							
Encryption Info		2.0-100 (NAU) - 11, - 12, W	NUMBER OF STREET	1			~ .		T CAMPANY A	÷
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aws	Services	Q Search for servi	ces, features, blogs, docs, and	l more		[Alt+S]								
=	Attach a voto	ne to an instance to t	ise it as you would a regular	physical nai	ra alsk arive.	6								
	Basic de	tails												
	Volume ID													
	🗗 vol-Od	b3999813939bd47												
	Availabilit	/ Zone												
	us-west-20													
	Instance	nfo												
	i-02b92	b442455926a		•	C									
	Only instand	es in the same Availabilit	y Zone as the selected volume an	e displayed.										
	Device nar	ne Info												
	/dev/sdf													
	Recommend	led device names for Linu	oc /dev/sda1 for root volume. /de	v/sd[f-p] for	data volumes.									
	/de the	v/xvdp internally, even details) is /dev/sdf th	en when the device name en hrough /dev/sdp.	tered here (and shown i	n								
						Cance	L	Attach vol	ume					
G Gmail	🖬 YouTube 🛃 Ma	is 🧔 School of Continuinui 💧	🌐 AWS Management 🌘 Free Cloud	Comput 🥌 H	How to install LAM.									
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New E	C2 Experience X	 Successfully attach 	ed volume <u>vol-0cb3999813939bd47</u>	to instance <u>i-0</u>	269216442455	926a				n Recolution of shall be state				× .
EC2 Das	hboard	You can now create snapshot	ite Amazon Data Lifecycle Manager p lifecycle policy. For more informatio	olicies to auton in, see the Know	nate snapshot m wiedge Center a	ianagement din rticle.	ectly from	m this screen. Sel	ect the	volumes to back	up, and then o	hoose Actions,		×
EC2 Glob	bal View	Volumes (5)								C	Actions	Create	olum	e
Tags		Q. Search									1	< 1	5.	0
Limits		Name	∀ Volume 10	Type 👳	Size	9 IOP5	v	Throughput	v	Snepshot	Created		v	Avai
• Instance	5	0 .	vol-083f7cc4e86259499	gp2	8 GIB	100		1		snap-052782a	2022/10	/25 18:03 GMT+	5:	us-w
Instance	5 time		vol-0f2516de3459e009e	gp2	8 GIB	100		3		snap-052782a	2022/10	/25 19:10 GMT+	5	115×10
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Spot Ret	quests		vol-0cc2f8f0a9938a685	gp2	100 GiB	300		17		8 3	2022/10	/25 23:41 GMT+	5:	US-W
Savings	Plans					1								

Make a file system and mount the file system.

```
https://aws.amazon.com/amazon-linux-2/

[ec2-user@ip-172-31-8-32 ~]$ sudo su

[root@ip-172-31-8-32 ec2-user]# lsdlk

bash: lsdlk: command not found

[root@ip-172-31-8-32 ec2-user]# lsblk

NAME MAJ:MIN RM SIZE RO TYPE MOUNTPOINT

xvda 202:0 0 8G 0 disk

\_xvda1 202:1 0 8G 0 part /

xvdf 202:80 0 100G 0 disk

[root@ip-172-31-8-32 ec2-user]# lsblk

NAME MAJ:MIN RM SIZE RO TYPE MOUNTPOINT

xvda 202:0 0 8G 0 disk

\_xvda1 202:1 0 8G 0 part /

[root@ip-172-31-8-32 ec2-user]# lsblk

NAME MAJ:MIN RM SIZE RO TYPE MOUNTPOINT

xvda 202:0 0 8G 0 disk

\_xvda1 202:1 0 8G 0 part /

[root@ip-172-31-8-32 ec2-user]# lsblk

NAME MAJ:MIN RM SIZE RO TYPE MOUNTPOINT

xvda 202:0 0 8G 0 disk

\_xvda1 202:1 0 8G 0 part /

xvda 202:0 0 8G 0 disk
```

Z root@ip-172-31-8-32:/home/ec2-user

)evice	Start	t 10777	End	Sector	s Size	Туре	. (i)
/dev/xvda /dev/xvda	1 4090 128 2048	3 16777 3 4	182 1 095	204	/ 8G 8 1M	BIOS	boot
Partition	table e	ntries	are r	not in (disk or	rder.	
Disk /dev	/xvdf: 10	00 GiB,	1073	3741824	00 byte	es, 20	09715200 sectors
Units: se	ctors of	1 * 51	.2 = 5	bl2 byt	25	1 54	
Sector S1	ze (logi	cal/pny	sical	12 512	bytes	/ 51	z bytes
1/U size	(minimum,	optima	1): :	12 DYC	es / 51	LZ DY	tes
[root@1p-	172-31-8 172 31 9	-32 ecz	-user	-ј# mка:	ir atta	acn	
mota-data	=/dov/xw	-32 eC2 1f	-user	-]# IIIKI ic	izo=512) s /u	20/2001
meca-uaca	=/ 42 0/ 200			13.	rts7=51	2	attr=2 projid32bit=1
	_			cri	r=1		finobt=1. sparse=0
data	-			bs:	ize=409	96 I	blocks=26214400, imaxpct=25
	-			su	nit=0		swidth=0 blks
naming	=version	2		bs	ize=409	96 a	ascii-ci=0 ftype=1
log	=internal	l log		bs	ize=409	96 I	blocks=12800, version=2
	-			se	ctsz=51	12	sunit=0 blks, lazy-count=1
realtime	=none			ex	tsz=409	96 I	blocks=0, rtextents=0
[root@ip-	172-31-8	-32 ec2	-user	`]# pwd			
/home/ec2	-user						
[root@ip-	172-31-8	-32 ec2	-user]# mou	nt -t >	(fs /o	dev/xvdf /home/ec2-user/attach
[root@ip-	172-31-8	-32 ec2	-user	`]# df ∙	-ht		
dt: optio	n require	es an a	irgume	ent	't'		
Iry df -	-neip' to	or more	10+0	ormation	n. ⊾⊤		
[root@ip-	1/2-31-0 m Tv/	-oz ecz	-user	·]# ar ·	-ni Avail	Uco%	Mounted on
devtmofs	n iyi dev	/tmnfc	A7/N		AVA11 /7/M	05e% 0%	/dev
tmnfs	tm	nfs	483	1 0	483M	0%	/dev/shm
tmofs	tm	ofs	483	416K	482M	1%	/run
tmpfs	tm	ofs	483	1 0	483M	0%	/svs/fs/cgroup
/dev/xvda	1 xf	5	8.00	1.9G	6.2G	23%	/
tmpfs	tm	ofs	971	1 0	97M	0%	/run/user/1000
/dev/xvdf	xf	5	1000	G 135M	100G	1%	/home/ec2-user/attach
[root@ip-	172-31-8	-32 ec2	-user	·]#			

Create some files in the file system and unmount the file system.

[root@ip-172-31-8-32 ec2-user]# lsblk NAME MAJ:MIN RM SIZE RO TYPE MOUNTPOINT xvda 202:0 0 8G 0 disk L_xvda1 202:1 0 8G 0 part / xvdf 202:80 0 100G 0 disk /home/ec2-user/attach [root@ip-172-31-8-32 ec2-user]# cd attach [root@ip-172-31-8-32 attach]# pwd /home/ec2-user/attach [root@ip-172-31-8-32 attach]# touch {1..10}.txt [root@ip-172-31-8-32 attach]# ls 10.txt 1.txt 2.txt 3.txt 4.txt 5.txt 6.txt 7.txt 8.txt 9.txt [root@ip-172-31-8-32 attach]#

[ec2-user@ip-1/2	2-31-8-32	~]\$su	ido su			
[root@ip-172-31-	-8-32 ec2-	user]#	¢ cd s	torage		
bash: cd: storag	ge: No suc	h file	e or d	irector	ry	
[root@ip-172-31-	-8-32 ec2-	user]#	ŧdf -I	hT		
Filesystem T	Type 🛛	Size	Used /	Avail l	Jse%	Mounted on
devtmpfs d	devtmpfs 🚽	474M	0	474M	0%	/dev
tmpfs t	tmpfs -	483M	0	483M	0%	/dev/shm
tmpfs t	tmpfs -	483M	448K	482M	1%	/run
tmpfs t	tmpfs -	483M	0	483M	0%	/sys/fs/cgroup
/dev/xvda1 x	xfs	8.0G	1.9G	6.2G	23%	/
/dev/xvdf x	xfs	100G	135M	100G	1%	/home/ec2-user/attach
tmpfs t	tmpfs	97M	0	97M	0%	/run/user/1000
[root@ip-172-31-	-8-32 ec2-	user]#	‡ 1sb1	k		
NAME MAJ:MIN	RM SIZE	RO TYP	PE MOUI	NTPOIN	г	
xvda 202:0	0 8G	0 dis	sk			
└_xvda1 202:1	0 8G	0 par	rt /			
xvdf 202:80	0 100G	0 dis	sk /hoi	me/ec2·	-user	/attach
[root@ip-172-31-	-8-32 ec2-	user]#	‡cda [.]	ttach		
[root@ip-172-31-	-8-32 atta	ch]# c	d sto	rage		
[root@ip-172-31-	-8-32 stor	age]#	touch	{116	0}.tx	t
[root@ip-172-31-	-8-32 stor	age]#	ls			
10.txt 1.txt 2	2.txt 3.t	xt 4.	txt	5.txt	6.tx	t 7.txt 8.txt 9.txt
[root@ip-172-31-	-8-32 stor	age]#	cd			
bash: cd: comm	mand not f	ound				
[root@ip-172-31-	-8-32 stor	age]#	cd			
[root@ip-172-31-	-8-32 atta	ch]# c	:d			
[root@ip-172-31-	-8-32 ec2-	user]#	tumou	nt /hor	ne/ec	2-user/storage
umount: /home/ec	c2-user/st	orage:	nom	ount po	pint	specified.
[root@ip-172-31-	-8-32 ec2-	user]#	tumoui	nt /hor	ne/ec	2-user/attach
umount: /home/ec	c2-user/at	tach:	targe	t is bu	usy.	
[root@ip-172-31-	-8-32 ec2-	user]#	‡ df -	hT		
Filesystem T	Type 🛛	Size	Used /	Avail l	Jse%	Mounted on
devtmpfs d	devtmpfs 🚽	474M	0	474M	0%	/dev
tmpfs t	tmpfs	483M	0	483M	0%	/dev/shm
tmpfs t	tmpfs	483M	448K	482M	1%	/run
tmpfs t	tmpfs	483M	0	483M	0%	/sys/fs/cgroup
/dev/xvda1 x	xfs	8.0G	1.9G	6.2G	23%	
/dev/xvdf x	xfs	100G	135M	100G	1%	/home/ec2-user/attach
tmpfs t	tmpfs	97M	0	97M	0%	/run/user/1000
[root@ip-172-31-	-8-32 ec2-	user]#				

3. _

		1.410		1				1.6					9		ř.		-
New EC2 Experience Tell us what you think	if ⊴	you need your	ated sna snapsho	apsnot <u>snap-014dc8t5t</u> ot to be immediately av	ailable o	<u>91</u> from v onsider u	ing Fa	<u>voi-ucczrsi</u> st Snapshot	Restore	<u>8a685</u> . 2.				Manage	tast snaps	hot restore	×
EC2 Dashboard	() Y	/ou can now cr	eate Am	azon Data Lifecycle Ma	nager p	olicies to a	utoma	te snapshot	manag	ement dire	ctly fro	m this screen. Select ti	he volumes to back u	p, and th	en choose J	Actions,	×
EC2 Global View		Create snapsh	ot lifecy	cle policy. For more inf	ormatio	n, see the	Knowl	edge Center	article	9							
Events	Vol	umes (8)											C	Action	15 🔻	Create vol	ume
Tags	0	Search														(1)	0
Limits						19422304		10442503					1.200300 (MS				•
▼ Instances		Name	4	Volume ID	4	Туре	Δ	Size	A	IOPS	4	Throughput V	Snapshot V	Creat	ted		
Instances sev	0	-		vol-083f7cc4e86259	499	gp2		8 GiB		100		•	snap-052782a	2022	2/10/25 18	:03 GMT+5:	. US-W
Instance Types				vol-Of2516de3459el	009e	gp2		8 GIB		100		920	snap-052782a	2022	2/10/25 19	:10 GMT+5:	. US-W
Instance Types	П	-		vol-00c11f906ad453	3a75	gp2		8 GiB		100		(a)	snap-052782a	2022	2/10/25 21	08 GMT+5:	, US-W
Launch Templates	0	(*)		vol-0cb3999813939	bd47	gp2		100 GiB		300			5 9 0	2022	2/10/26 21:	06 GMT+5:	us-w
Spot Requests	D.	-		vol-08aa663bf85f00	564	gp2		8 GiB		100		1991	snap-052782a	2022	2/10/27 19	33 GMT+5:	. Ц5-W
Reserved Instances		-		vol-0f9e6ed20f79d1	010	gp2		8 GiB		100			snap-052782a	2022	2/10/27 19	:52 GMT+5:	US-W
Dedicated Hosts	à			vol-0459bc9b55aa3	6f0a	gp2		8 GiB		100		948	snap-052782a	2022	2/10/27 19:	55 GMT+5:	US-W
Scheduled Instances		(=)		vol-Occ2f8f0a9938a	683	gp2		100 GiB		300		(a)	ж.	2022	2/10/25 23	41 GMT+5:	, us-w
Capacity Reservations	¢																
- Later size	-							3	-								
• moges	Sele	ct a volume al	ove														
AMIS New																	

Go to snapshots and verify.

aws III Services	Q Search for	services,	features,	blogs, d	ocs, and more		[Ait+5]					Þ	4	0	Oregon 🔻	Roh	itha 🔻
Reserved Instances	ŝ	napsh	ots (1/1	1)							CZ	Recycle Bin	Action	s 🔻	Create sna	apshot	
Dedicated Hosts		Owned t	y me 🔻	Q	Search										< 1	> (0
Scheduled Instances		N	ame	v	Snapshot ID	V	Size	v	Description	V	Storage v	Snapshot status	v	Starte	d		v
Capacity Reservations	U	R	hitha Sto	va	snap-014dc8f5bcdbc	8b91	100 GiB	i i	Rohitha Storage snapc	hat	Standard	⊘ Completed		2022/	11/01 21:33	GMT+5:	:
 Images 	() ()																- 2
AMIS New																	
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▼ Elastic Block Store																	
Volumes																	
Snapshots																	
Lifecycle Manager																	
▼ Network & Security																	
Security Groups																	
Elastic IPs																	
Placement Groups																	
Key Pairs	s																
Network Interfaces									=						-		
Load Balancing	Sr	napsho	t ID: sna	p-014d	c8f5bcdbc8b91 (Rol	iitha Sto	orage snape	that)									Î
Load Balancers		Details	Pe	rmissior	s Storage tier	Tags											
Toront Comments																	

Create a volume from snapshot.

Settings	
UVer Grant Star	
Snapshot ID	
The ID of the original snapshot that is to be copied.	
snap-014dc8f5bcdbc8b91 (Rohitha Storage snapc	:hat)
New snapshot settings	
Description	
A description for the snapshot copy.	
[Copied snap-014dc8f5bcdbc8b91 from us-west-2] R	Rohitha Storage sn
255 characters maximum.	
Destination Region	
an-northeast-2	-
up normedst-2	
Encryption Info	
Use Amazon EBS encryption as an encryption solution for your	EB5 resources.
Encrypt this snapshot	

4. **AM** :

Create an instance and connect to Ubuntu server.

aws iii Services Q. Sea	rch	[Alt+S]		\$ Ø	Singapore 🔻	Rol	hitha 🔻
New EC2 Experience ×	Instances (1/4) Info	C	onnect Instance state	Actions 🔻 Laun	ich instances		3 j
	Q. Find instance by attribute or tag (case-sensitive)	and a contract of the contract	2040		< 1	> 0	0
EC2 Global View	Name V Instance ID) Instar	nce state 🛛 🛛 🖉 🛛 Instance typ	e 🛛 Status check	Alarm statu	ıs I	Avail
Events	Instance2 I-0082db4t	o3ce5133d2	nning @Q t2.micro	Ø 2/2 checks passed	No alarms	+	ap-so
Tags	Instance1 I-07723507	/Zeb1ə732f 🛛 🞯 Ru	nning @@ t2.micro	Ø 2/2 checks passed	No alarms	+	ap-so
Limits	ApachePHP- Rohitha i-09038748	378e582baa 🛛 🞯 Ru	nning @Q t2.micro	Ø 2/2 checks passed	No alarms	+	ap-so
▼ Instances	Rohitha i-0a3f7a3c	35fb713f0 🔗 Ru	nning @Q t2.micro	Ø 2/2 checks passed	No alarms	+	ap-so
Instances New Instance Types Launch Templates Spot Requests Savings Plans	Instance: i-0903874878e582baa (Apach Details Security Networking Stor	ePHP- Rohitha) age Status checks	= Monitoring Tags		4	9 ×	
Reserved Instances new	Instance ID - 1-0903874878e582baa (ApachePHP- Rohitha)	Public IPv4 address	pen address 🖸	Private IPv4 addresses			
Capacity Reservations Images	IPv6 address _	Instance state Ø Running		Public IPv4 DNS D ec2-54-255-155-254.ap-soi 1.compute.amazonaws.com op	utheast- en address [2	1	

Connect to Apache and PHP server and launch a web application.





