

CREATE VOLUME USING LINUX CONSOLE:

Step1:linux instance launch

Name and tags [Info](#)

Name
linux [Add additional tags](#)

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An AMI is a template that contains the software configuration (operating system, application server, and applications) required to launch your instance. Search or Browse for AMIs if you don't see what you are looking for below

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Number of instances [Info](#)
1

Software Image (AMI)
Amazon Linux 2 Kernel 5.10 AMI...[read more](#)
ami-0cca134ec43cf708f

Virtual server type (instance type)
t2.micro

Firewall (security group)
New security group

Storage (volumes)
1 volume(s) - 8 GiB

Free tier: In your first year includes 750 hours of t2.micro (or t3.micro in the Regions in which t2.micro is unavailable) instance usage on free tier

Cancel **Launch instance**

Instances (1/1) [Info](#)

Find instance by attribute or tag (case-sensitive)

Instance ID = i-0cbf9db3e4c8fe408 [Clear filters](#)

<input checked="" type="checkbox"/>	Name	Instance ID	Instance state	Instance t...	Status check	Alarm status	Availability Zone	Public IPv4 DNS
<input checked="" type="checkbox"/>	linux	i-0cbf9db3e4c8fe408	Running	t2.micro	2/2 checks passed	No alarms	ap-south-1a	ec2-13-233-17-244

Linux console launch completed.

Step2:open putty gen and key generate --->copy linux console public ip and put
putty host ---->ssh--->auth--->coonect ppk file -->open putty

Find instance by attribute or tag (case-sensitive)

Instance ID = i-0cbf9db3e4c8fe408 X Clear filters

Name	Instance ID	Instance state	Instance t...	Status check	Alarm status	Availability Zone	Public IPv4 DNS
linux	i-0cbf9db3e4c8fe408	Running	t2.micro	2/2 checks passed	No alarms	ap-south-1a	ec2-13-233-17-

Instance: i-0cbf9db3e4c8fe408 (linux)

Filter block devices

Volume ID	Device name	Volume size (GiB)	Attachment status	Attachment time	Encrypted	KMS key ID
vol-08fda301368567f4e	/dev/xvda	8	Attached	Wed Dec 21 2022 22:31:59 ...	No	-

Recent root volume replacement tasks

This 8gb will increase

STEP3:Volume increase (8GB TO 10GB)

Click box--->actions--->modify volume

Volumes (1/1)

Search

Name	Volume ID	Type	Size	IOPS	Throughput	Snapshot
-	vol-0d201011f75c29a36	gp2	8 GiB	100	-	snap-0764eb2...

Volume ID: vol-0d201011f75c29a36

Details Status checks Monitoring Tags

Details

Actions

- Modify volume
- Create snapshot
- Create snapshot lifecycle policy
- Delete volume
- Attach volume
- Detach volume
- Force detach volume
- Manage auto-enabled I/O
- Manage tags

STEP4:increase size(8gb—10gb)---modify

Modify volume Info

Modify the type, size, and performance of an EBS volume.

Volume details

Volume ID

vol-0d201011f75c29a36

Volume type Info

General Purpose SSD (gp2)

Size (GiB) Info

10

Min: 1 GiB, Max: 16384 GiB. The value must be an integer.

IOPS Info

100/3000

Baseline of 3 IOPS per GiB with a minimum of 100 IOPS, burstable to 3000 IOPS.

Cancel Modify

Requested volume modification for volume vol-0d201011f75c29a36.
The volume is being modified.

Volumes (1)

Search

	Name	Volume ID	Type	Size	IOPS	Throughput	Snapshot	Created	Avail
<input type="checkbox"/>	-	vol-0d201011f75c29a36	gp2	10 GiB	100	-	snap-0764eb2...	2022/12/22 22:05 GMT+5:...	ap-5

Size wil increase

STEP5:open linux --->login ec2-user

#sudo file -s /dev/xvd*

#lsblk

#sudo growpart /dev/xvda 1

#lsblk

#sudo yum install xfsprogs

#sudo xfs_groefs -d /

#df -h ----->(adding disk show)

```
/dev/xvda: x86 boot sector; partition 1: ID=0xee, startsector 1, 16777215 sectors, extended partition table (last)\011, code offset 0x63
/dev/xvda1: SGI XFS filesystem data (blksiz 4096, inosz 512, v2 dirs)
[ec2-user@ip-172-31-36-241 ~]$ lsblk
NAME        MAJ:MIN RM SIZE RO TYPE MOUNTPOINT
xvda        202:0    0 10G  0 disk
└─xvda1    202:1    0  8G  0 part /
[ec2-user@ip-172-31-36-241 ~]$ sudo growpart /dev/xvda 1
CHANGED: partition=1 start=4096 old: size=16773087 end=16777183 new: size=20967391 end=20971487
[ec2-user@ip-172-31-36-241 ~]$ lsblk
NAME        MAJ:MIN RM SIZE RO TYPE MOUNTPOINT
xvda        202:0    0 10G  0 disk
└─xvda1    202:1    0 10G  0 part /
[ec2-user@ip-172-31-36-241 ~]$ sudo yum install xfsprogs
Loaded plugins: extras_suggestions, langpacks, priorities, update-motd
amzn2-core
Package xfsprogs-5.0.0-10.amzn2.0.1.x86_64 already installed and latest version
Nothing to do
[ec2-user@ip-172-31-36-241 ~]$ sudo xfs_grows -d /
sudo: xfs_grows: command not found
[ec2-user@ip-172-31-36-241 ~]$ sudo xfs_growfs -d /
meta-data=/dev/xvda1          isize=512    agcount=4, agsize=524159 blks
=                               sectsz=512   attr=2, projid32bit=1
=                               crc=1      finobt=1, sparse=0, rmapbt=0
=                               reflink=0   bigtime=0 inobtcount=0
data      =                       bsize=4096   blocks=2096635, imaxpct=25
=                               sunit=0     swidth=0 blks
naming    =version 2           bsize=4096   ascii-ci=0, ftype=1
log        =internal log     bsize=4096   blocks=2560, version=2
=                               sectsz=512   sunit=0 blks, lazy-count=1
realtime  =none              extsz=4096   blocks=0, rtextents=0
data blocks changed from 2096635 to 2620923
[ec2-user@ip-172-31-36-241 ~]$ df -h
Filesystem      Size  Used Avail Use% Mounted on
devtmpfs        474M   0  474M   0% /dev
tmpfs           483M   0  483M   0% /dev/shm
tmpfs           483M 408K  482M   1% /run
tmpfs           483M   0  483M   0% /sys/fs/cgroup
/dev/xvda1      10G  1.6G   8.5G  16% /
tmpfs           97M   0   97M   0% /run/user/1000
[ec2-user@ip-172-31-36-241 ~]$
login as: ec2-user
Authenticating with public key "imported-openssh-key"
Last login: Thu Dec 22 02:19:29 2022 from 49.37.217.123

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