

Web Hosting on AWS EC2 with EBS Volume Backup

Launched and configured an EC2 instance to host a static website

EC2

>

Instances

Instances (1/2)

Info

Last updated 3 minutes ago

Refresh

Connect

Instance state

Actions

Launch instances

Find Instance by attribute or tag (case-sensitive)

All states

<

1

>

Settings

	Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public IPv4 DNS	Public IPv4 ...
<input checked="" type="checkbox"/>	webserverdemo	i-029ade9ba73c7d1dd	Running	t2.micro	2/2 checks passed	View alarms +	ap-south-1b	ec2-65-0-32-156.ap-so...	65.0.32.156
<input type="checkbox"/>	web-server	i-0485326ged0da30eb	Running	t2.micro	2/2 checks passed	View alarms +	ap-south-1b	-	65.1.134.188

Connected to the server using Git terminal (SSH)

[illegible]

Installed Apache Web Server to host a default webpage

```
ec2-user@ip-172-31-9-131:~
[ec2-user@ip-172-31-9-131 ~]$ sudo yum update -y
Amazon Linux 2023 Kernel Livepatch repository                               149 kB/s | 17 kB    00:00
Dependencies resolved.
Nothing to do.
Complete!
[ec2-user@ip-172-31-9-131 ~]$ sudo yum install httpd -y
Last metadata expiration check: 0:00:27 ago on Wed Jun 18 12:42:21 2025.
Dependencies resolved.

=====
Package                Architecture Version                Repository            Size
=====
Installing:
httpd                  x86_64        2.4.62-1.amzn2023     amazonlinux            48 k
Installing dependencies:
apr                    x86_64        1.7.5-1.amzn2023.0.4  amazonlinux            129 k
apr-util              x86_64        1.6.3-1.amzn2023.0.1  amazonlinux            98 k
generic-logos-httpd   noarch        18.0.0-12.amzn2023.0.3 amazonlinux            19 k
httpd-core            x86_64        2.4.62-1.amzn2023     amazonlinux            1.4 M
httpd-filesystem       noarch        2.4.62-1.amzn2023     amazonlinux            14 k
httpd-tools           x86_64        2.4.62-1.amzn2023     amazonlinux            81 k
libbrotli             x86_64        1.0.9-4.amzn2023.0.2  amazonlinux            315 k
mailcap               noarch        2.1.49-3.amzn2023.0.3 amazonlinux            33 k
Installing weak dependencies:
apr-util-openssl      x86_64        1.6.3-1.amzn2023.0.1  amazonlinux            17 k
mod_http2             x86_64        2.0.27-1.amzn2023.0.3 amazonlinux            166 k
mod_lua               x86_64        2.4.62-1.amzn2023     amazonlinux            61 k
=====
Transaction Summary
=====
Install 12 Packages

Total download size: 2.3 M
Installed size: 6.9 M
Downloading Packages:
(1/12): apr-util-openssl-1.6.3-1.amzn2023.0.1.x86_64.rpm                393 kB/s | 17 kB    00:00
(2/12): apr-1.7.5-1.amzn2023.0.4.x86_64.rpm                            2.5 MB/s | 129 kB    00:00
(3/12): apr-util-1.6.3-1.amzn2023.0.1.x86_64.rpm                       1.7 MB/s | 98 kB    00:00
(4/12): generic-logos-httpd-18.0.0-12.amzn2023.0.3.noarch.rpm          898 kB/s | 19 kB    00:00
(5/12): httpd-2.4.62-1.amzn2023.x86_64.rpm                             2.1 MB/s | 48 kB    00:00
(6/12): httpd-core-2.4.62-1.amzn2023.x86_64.rpm                         37 MB/s | 1.4 MB    00:00
(7/12): httpd-filesystem-2.4.62-1.amzn2023.noarch.rpm                  440 kB/s | 14 kB    00:00
(8/12): httpd-tools-2.4.62-1.amzn2023.x86_64.rpm                       2.9 MB/s | 81 kB    00:00
(9/12): mailcap-2.1.49-3.amzn2023.0.3.noarch.rpm                       1.5 MB/s | 33 kB    00:00
(10/12): libbrotli-1.0.9-4.amzn2023.0.2.x86_64.rpm                     8.6 MB/s | 315 kB    00:00
(11/12): mod_http2-2.0.27-1.amzn2023.0.3.x86_64.rpm                   4.6 MB/s | 166 kB    00:00
(12/12): mod_lua-2.4.62-1.amzn2023.x86_64.rpm                          2.5 MB/s | 61 kB    00:00
=====
Total                               12 MB/s | 2.3 MB    00:00
Running transaction check
Transaction check succeeded.
Running transaction test
Transaction test succeeded.
Running transaction
  Preparing      :                                1/1
  Installing     : apr-1.7.5-1.amzn2023.0.4.x86_64                1/12
  Installing     : apr-util-openssl-1.6.3-1.amzn2023.0.1.x86_64    2/12
  Installing     : apr-util-1.6.3-1.amzn2023.0.1.x86_64            3/12
  Installing     : mailcap-2.1.49-3.amzn2023.0.3.noarch             4/12
```

```

Installing      : httpd-tools-2.4.62-1.amzn2023.x86_64          5/12
Installing      : libbrotli-1.0.9-4.amzn2023.0.2.x86_64        6/12
Running scriptlet: httpd-filesystem-2.4.62-1.amzn2023.noarch    7/12
Installing      : httpd-filesystem-2.4.62-1.amzn2023.noarch    7/12
Installing      : httpd-core-2.4.62-1.amzn2023.x86_64          8/12
Installing      : mod_http2-2.0.27-1.amzn2023.0.3.x86_64        9/12
Installing      : mod_lua-2.4.62-1.amzn2023.x86_64            10/12
Installing      : generic-logos-httpd-18.0.0-12.amzn2023.0.3.noarch 11/12
Installing      : httpd-2.4.62-1.amzn2023.x86_64              12/12
Running scriptlet: httpd-2.4.62-1.amzn2023.x86_64              12/12
Verifying       : apr-1.7.5-1.amzn2023.0.4.x86_64              1/12
Verifying       : apr-util-1.6.3-1.amzn2023.0.1.x86_64         2/12
Verifying       : apr-util-openssl-1.6.3-1.amzn2023.0.1.x86_64 3/12
Verifying       : generic-logos-httpd-18.0.0-12.amzn2023.0.3.noarch 4/12
Verifying       : httpd-2.4.62-1.amzn2023.x86_64              5/12
Verifying       : httpd-core-2.4.62-1.amzn2023.x86_64         6/12
Verifying       : httpd-filesystem-2.4.62-1.amzn2023.noarch    7/12
Verifying       : httpd-tools-2.4.62-1.amzn2023.x86_64        8/12
Verifying       : libbrotli-1.0.9-4.amzn2023.0.2.x86_64        9/12
Verifying       : mailcap-2.1.49-3.amzn2023.0.3.noarch         10/12
Verifying       : mod_http2-2.0.27-1.amzn2023.0.3.x86_64      11/12
Verifying       : mod_lua-2.4.62-1.amzn2023.x86_64            12/12

Installed:
apr-1.7.5-1.amzn2023.0.4.x86_64          apr-util-1.6.3-1.amzn2023.0.1.x86_64
apr-util-openssl-1.6.3-1.amzn2023.0.1.x86_64 generic-logos-httpd-18.0.0-12.amzn2023.0.3.noarch
httpd-2.4.62-1.amzn2023.x86_64          httpd-core-2.4.62-1.amzn2023.x86_64
httpd-filesystem-2.4.62-1.amzn2023.noarch httpd-tools-2.4.62-1.amzn2023.x86_64
libbrotli-1.0.9-4.amzn2023.0.2.x86_64   mailcap-2.1.49-3.amzn2023.0.3.noarch
mod_http2-2.0.27-1.amzn2023.0.3.x86_64  mod_lua-2.4.62-1.amzn2023.x86_64

Complete!
ec2-user@ip-172-31-9-131 ~]$ sudo systemctl start httpd
ec2-user@ip-172-31-9-131 ~]$ sudo systemctl enable httpd
Created symlink /etc/systemd/system/multi-user.target.wants/httpd.service → /usr/lib/systemd/system/httpd.service.
ec2-user@ip-172-31-9-131 ~]$ ~

```



It works!

Uploaded HTML code using the terminal and viewed the hosted webpage in the browser via public IP.



Mounted and formatted the EBS volume using terminal

```
[ec2-user@ip-172-31-9-131 ~]$ lsblk
NAME        MAJ:MIN RM  SIZE RO TYPE MOUNTPOINTS
xvda        202:0    0   8G  0 disk
├─xvda1     202:1    0   8G  0 part /
├─xvda127   259:0    0   1M  0 part
└─xvda128   259:1    0  10M  0 part /boot/efi
xvdf        202:80   0   1G  0 disk

[ec2-user@ip-172-31-9-131 ~]$ sudo mkfs -t ext4 /dev/xvdf
mke2fs 1.46.5 (30-Dec-2021)
Creating filesystem with 262144 4k blocks and 65536 inodes
Filesystem UUID: 288c7396-5afb-456d-91aa-5a8314d995b2
Superblock backups stored on blocks:
    32768, 98304, 163840, 229376

Allocating group tables: done
Writing inode tables: done
Creating journal (8192 blocks): done
Writing superblocks and filesystem accounting information: done

[ec2-user@ip-172-31-9-131 ~]$ sudo mkdir /mnt/ebs
[ec2-user@ip-172-31-9-131 ~]$ sudo mount /dev/xvdf /mnt/ebs
[ec2-user@ip-172-31-9-131 ~]$ df -h
Filesystem      Size  Used Avail Use% Mounted on
devtmpfs        4.0M   0  4.0M   0% /dev
tmpfs           475M   0  475M   0% /dev/shm
tmpfs           190M  464K  190M   1% /run
/dev/xvda1      8.0G  1.7G  6.3G  21% /
tmpfs           475M   0  475M   0% /tmp
/dev/xvda128    10M  1.3M  8.7M  13% /boot/efi
tmpfs           95M   0   95M   0% /run/user/1000
/dev/xvdf       974M  24K  907M   1% /mnt/ebs
[ec2-user@ip-172-31-9-131 ~]$
```

Created an EBS Snapshot from the AWS Console for backup

Snapshots (1) Info

Last updated 5 minutes ago

Recycle Bin

Actions

Create snapshot

Owned by me

Search

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<input type="checkbox"/>	Name	Snapshot ID	Full snapshot size	Volume size	Description	Storage tier	Snapshot status
<input type="checkbox"/>		snap-02c5c96182111bec2	51.5 MiB	1 GiB	ec2-ebs-backup	Standard	Completed