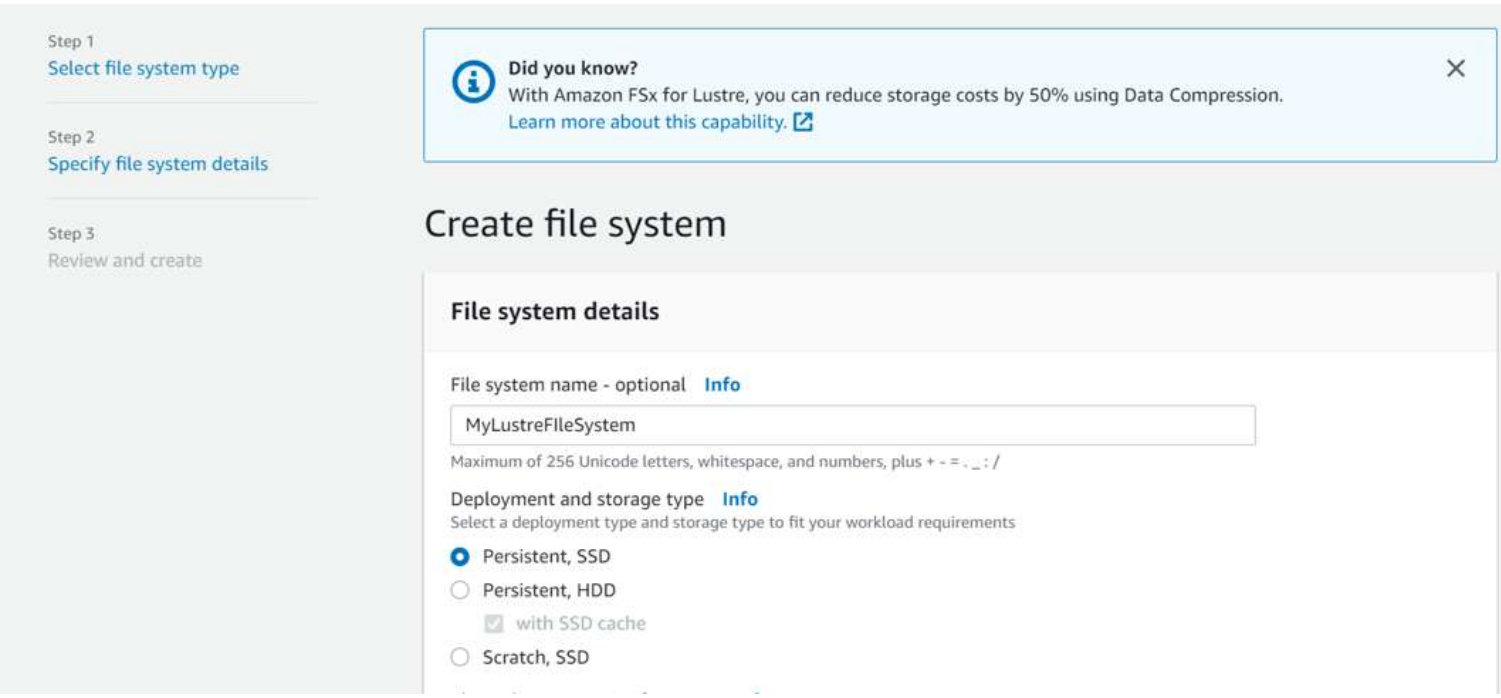
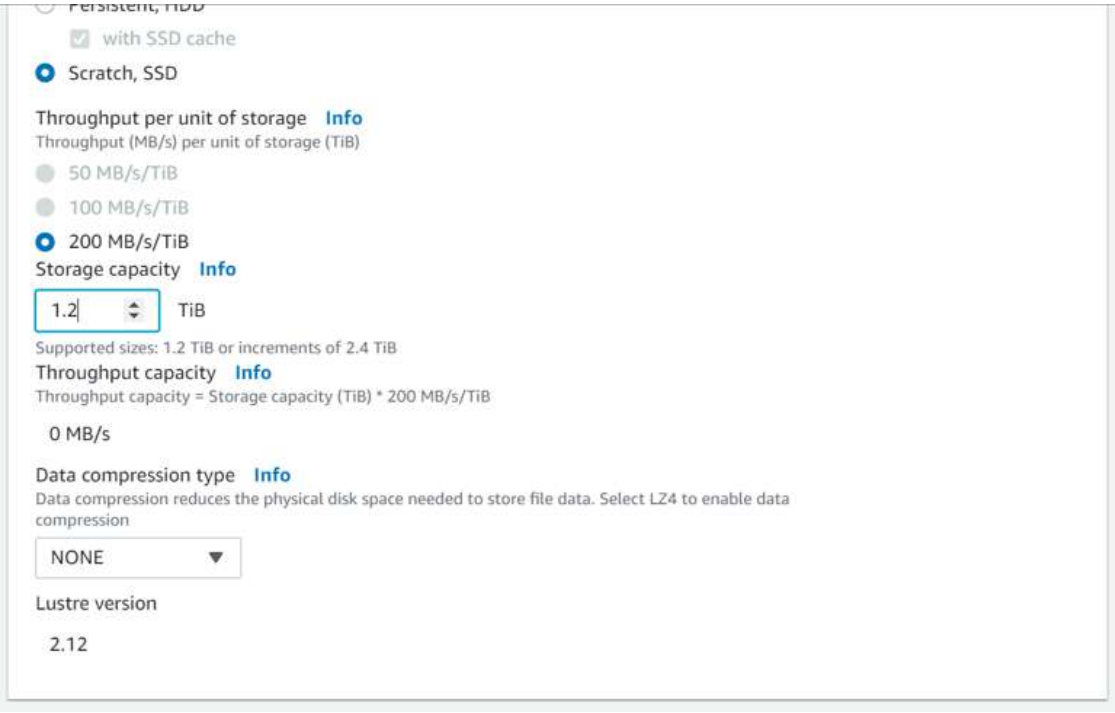

Step 1
Select file system type
Step 2
Specify file system details
Step 3
Review and create
Did you know?
With Amazon FSx for Lustre, you can reduce storage costs by 50% using Data Compression.
Learn more about this capability.
Create file system
File system details
File system name - optional Info
MyLustreFIleSystem
Maximum of 256 Unicode letters, whitespace, and numbers, plus + - = . _ : /
Deployment and storage type Info
Select a deployment type and storage type to fit your workload requirements
Persistent, SSD
Persistent, HDD
with SSD cache
Scratch, SSD


Persistent, HDD
with SSD cache
Scratch, SSD
Throughput per unit of storage Info
Throughput (MB/s) per unit of storage (TiB)
50 MB/s/TiB
100 MB/s/TiB
200 MB/s/TiB
Storage capacity Info
1.2
TiB
Supported sizes: 1.2 TiB or increments of 2.4 TiB
Throughput capacity Info
Throughput capacity = Storage capacity (TiB) * 200 MB/s/TiB
0 MB/s
Data compression type Info
Data compression reduces the physical disk space needed to store file data. Select LZ4 to enable data compression
NONE
Lustre version
2.12

Network & security

Virtual Private Cloud (VPC) **Info**
Specify the VPC from which your file system is accessible.

Default VPC | vpc-3ab53747

VPC Security Groups **Info**
Specify VPC Security Groups to associate with your file system's network interface.

Choose VPC security group(s)

sg-0362179d88cdcee19 (SSH SG) ×

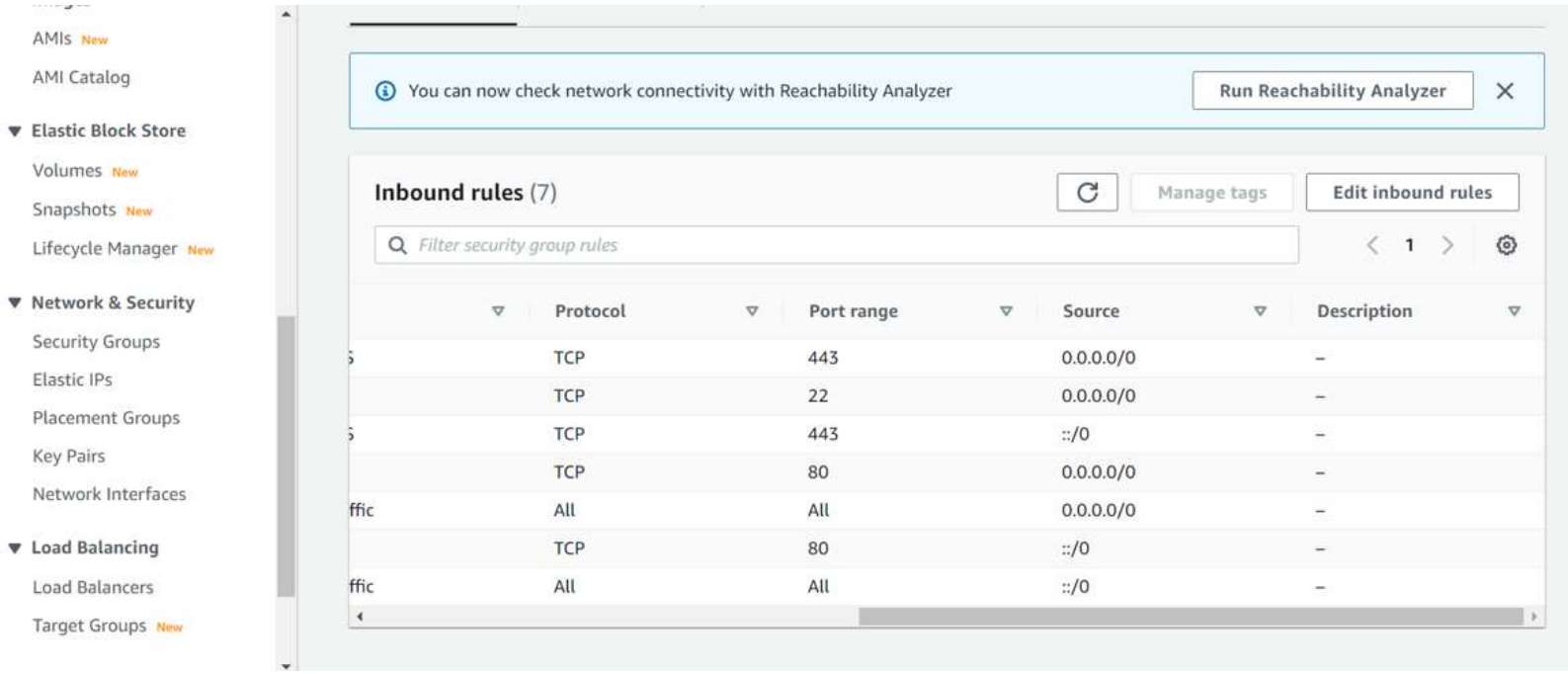
The VPC Security Groups associated with your file system's network interfaces must allow inbound Lustre traffic (TCP ports 988, 1021-1023).

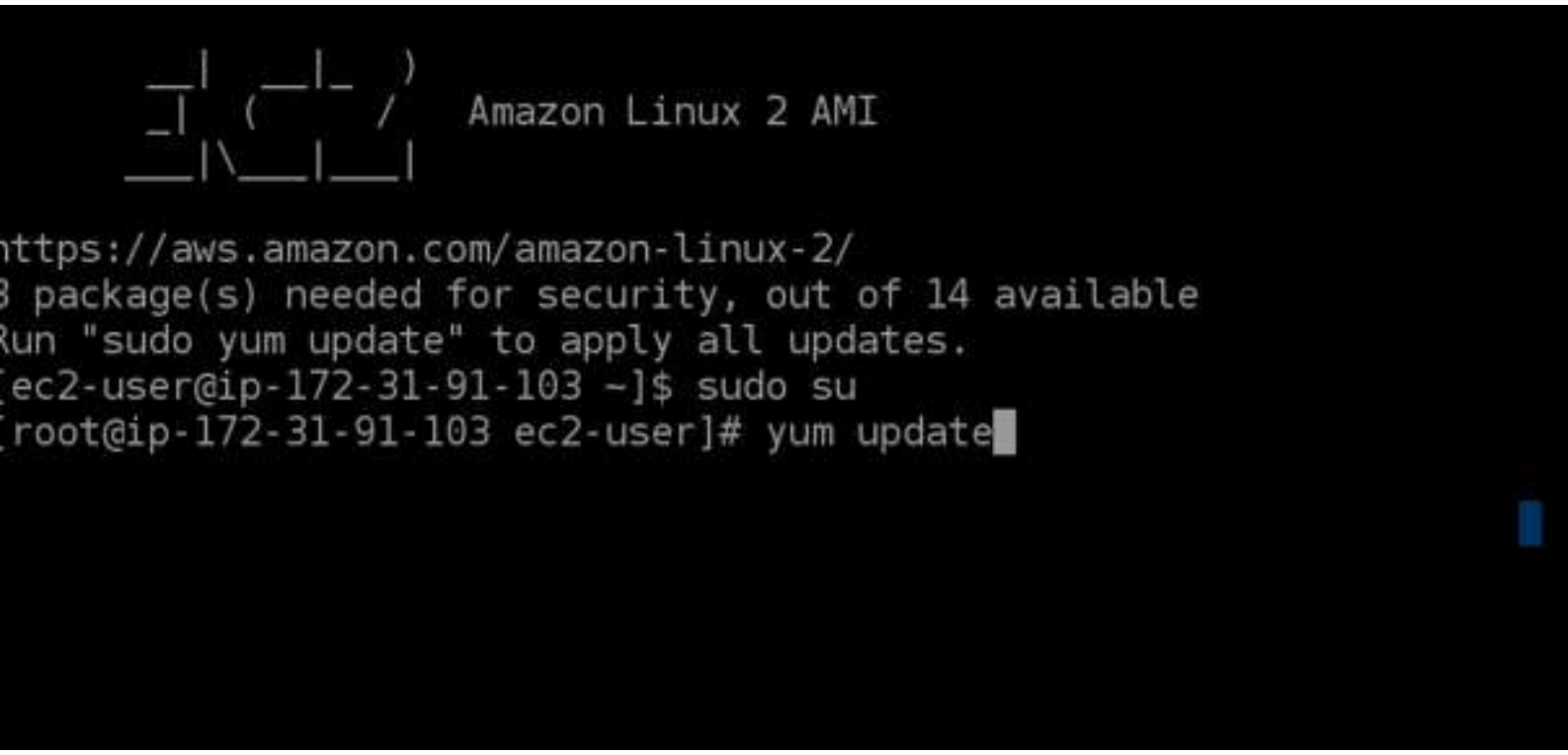
Subnet **Info**
Specify the subnet in which your file system's network interface resides.

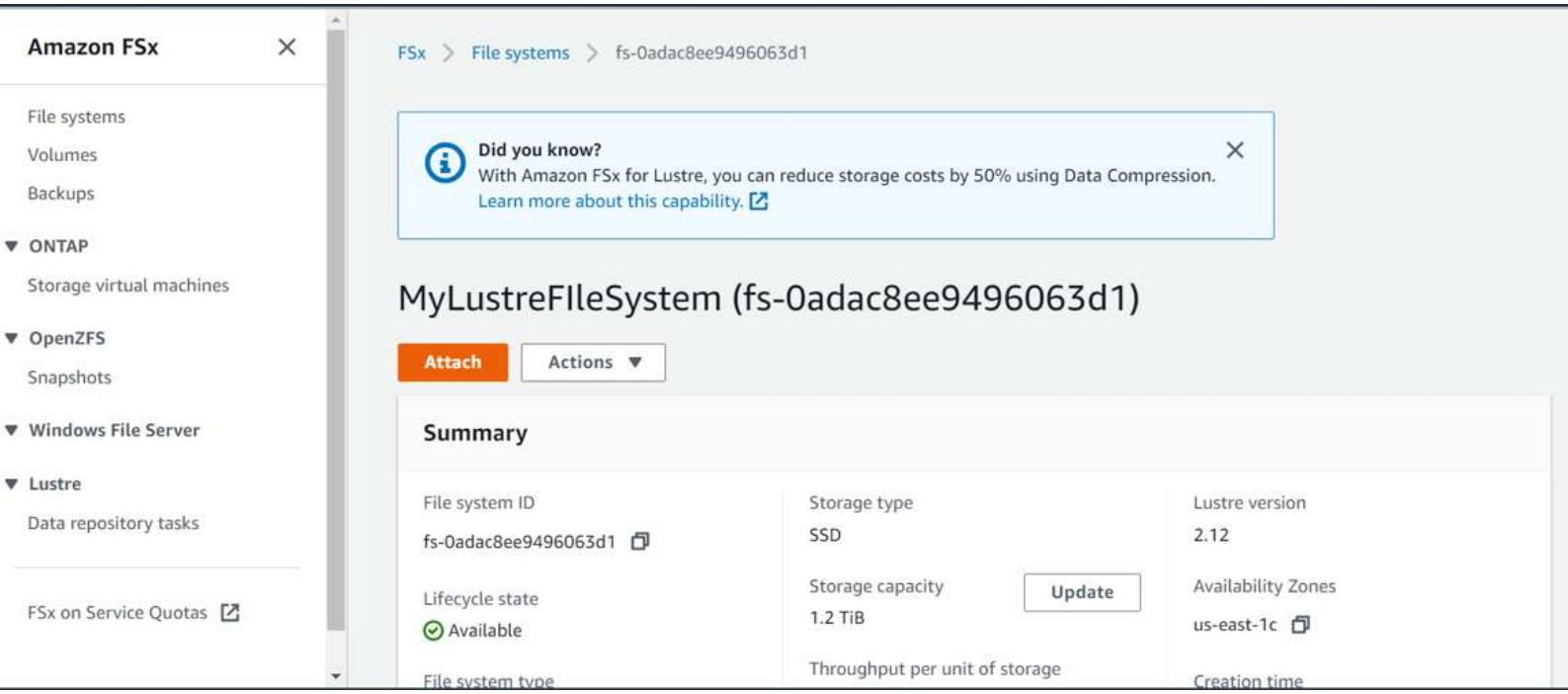
subnet-87d3aea6 (us-east-1c)

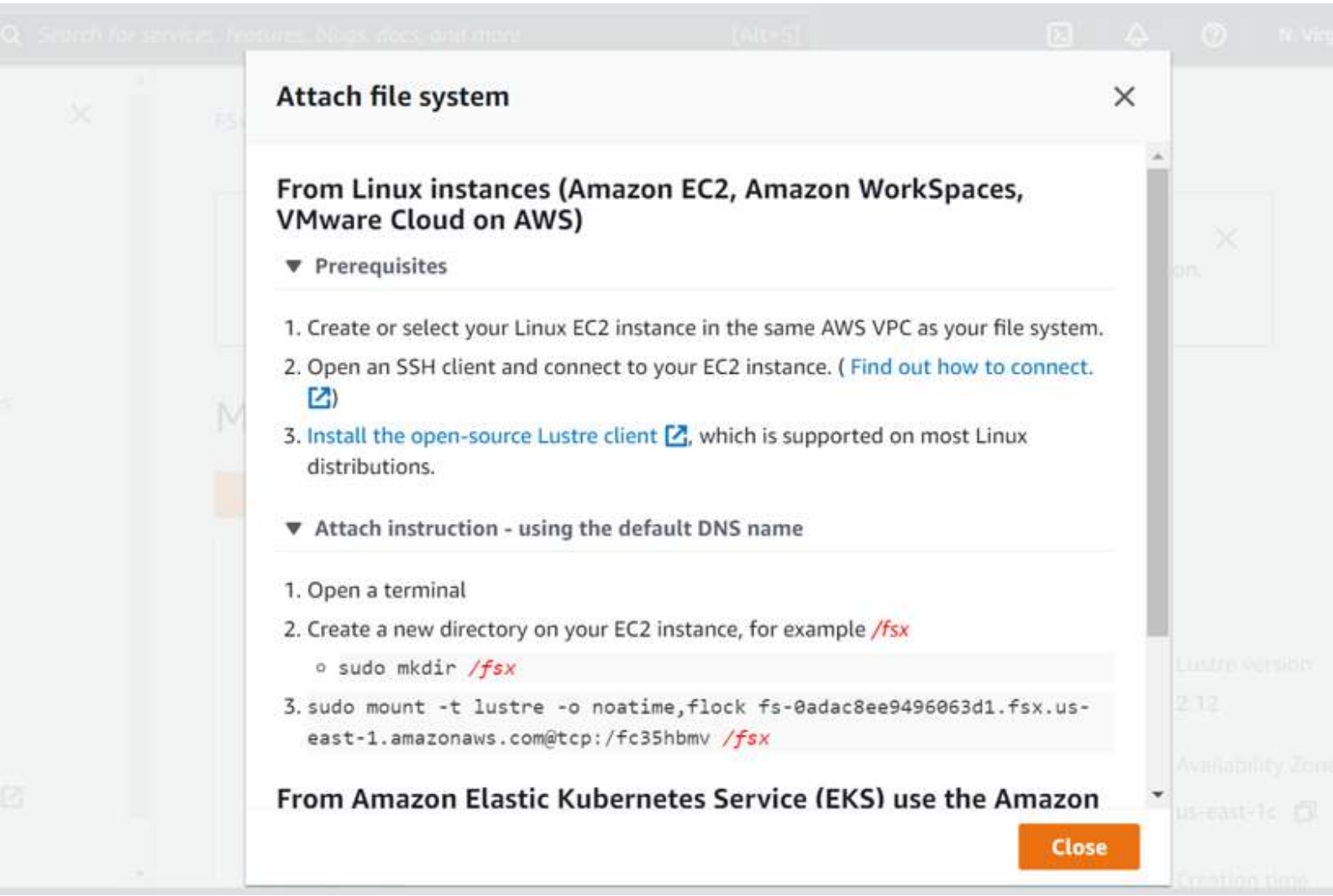
Encryption

For scratch file systems, data is encrypted at rest with keys managed by FSx using an XTS-AES-256 block cipher. Data in-transit is encrypted automatically when accessed from supported instance types in supported regions.


AMIs New
AMI Catalog
Elastic Block Store
Volumes New
Snapshots New
Lifecycle Manager New
Network & Security
Security Groups
Elastic IPs
Placement Groups
Key Pairs
Network Interfaces
Load Balancing
Load Balancers
Target Groups New
You can now check network connectivity with Reachability Analyzer
Run Reachability Analyzer
Inbound rules (7)
Manage tags
Edit inbound rules
Filter security group rules
1
Protocol
Port range
Source
Description
TCP 443 0.0.0.0/0 –
TCP 22 0.0.0.0/0 –
TCP 443 ::/0 –
TCP 80 0.0.0.0/0 –
All All 0.0.0.0/0 –
TCP 80 ::/0 –
All All ::/0 –


__| __|_)
_| (/   Amazon Linux 2 AMI
___|___|___|
https://aws.amazon.com/amazon-linux-2/
3 package(s) needed for security, out of 14 available
Run "sudo yum update" to apply all updates.
[ec2-user@ip-172-31-91-103 ~]$ sudo su
[root@ip-172-31-91-103 ec2-user]# yum update


Amazon FSx
File systems
Volumes
Backups
ONTAP
Storage virtual machines
OpenZFS
Snapshots
Windows File Server
Lustre
Data repository tasks
FSx on Service Quotas
FSx > File systems > fs-0adac8ee9496063d1
Did you know?
With Amazon FSx for Lustre, you can reduce storage costs by 50% using Data Compression.
Learn more about this capability.
MyLustreFIleSystem (fs-0adac8ee9496063d1)
Attach
Actions
Summary
File system ID
fs-0adac8ee9496063d1
Lifecycle state
Available
File system type
Storage type
SSD
Storage capacity
1.2 TiB
Update
Throughput per unit of storage
Lustre version
2.12
Availability Zones
us-east-1c
Creation time


Attach file system
From Linux instances (Amazon EC2, Amazon WorkSpaces, VMware Cloud on AWS)
Prerequisites
1. Create or select your Linux EC2 instance in the same AWS VPC as your file system.
2. Open an SSH client and connect to your EC2 instance. (Find out how to connect.)
3. Install the open-source Lustre client, which is supported on most Linux distributions.
Attach instruction - using the default DNS name
1. Open a terminal
2. Create a new directory on your EC2 instance, for example /fsx
sudo mkdir /fsx
3. sudo mount -t lustre -o noatime,flock fs-0adac8ee9496063d1.fsx.us-east-1.amazonaws.com@tcp:/fc35hbmv /fsx
From Amazon Elastic Kubernetes Service (EKS) use the Amazon
Close

```
[root@ip-172-31-91-103 ec2-user]# sudo mkdir /fsx
sudo: mkdir /fsx: command not found
[root@ip-172-31-91-103 ec2-user]# mkdir /fsx
[root@ip-172-31-91-103 ec2-user]# mount -t lustre -o noatime,flock fs-0adac8ee9496063d1.fsx.us-east-1.amazonaws.com@tcp:/fc35hbmv /fsx
[root@ip-172-31-91-103 ec2-user]#
```

```
Last login: Wed Feb 23 17:28:26 2022 from ec2-18-206-107-26.compute-1.amazonaws.com

       __|  __|_  )
       _|  (     /   Amazon Linux 2 AMI
      ___|\___|___|

https://aws.amazon.com/amazon-linux-2/
[ec2-user@ip-172-31-91-103 ~]$ lsblk
NAME    MAJ:MIN RM SIZE RO TYPE MOUNTPOINT
xvda    202:0    0   8G  0 disk
└─xvda1 202:1    0   8G  0 part /
[ec2-user@ip-172-31-91-103 ~]$ df -T
Filesystem                     Type      1K-blocks    Used  Available Use% Mounted on
devtmpfs                       devtmpfs     485568       0     485568   0% /dev
tmpfs                          tmpfs        494340       0     494340   0% /dev/shm
tmpfs                          tmpfs        494340     400     493940   1% /run
tmpfs                          tmpfs        494340       0     494340   0% /sys/fs/cgroup
/dev/xvda1                     xfs         8376300 1593156    6783144  20% /
172.31.83.125@tcp:/fc35hbmv lustre   1168351232    7936 1168341248   1% /fsx
tmpfs                          tmpfs         98872       0      98872   0% /run/user/1000
[ec2-user@ip-172-31-91-103 ~]$
```

```
Get:20 http://us-east-1.ec2.archive.ubuntu.com/ubuntu focal-updates/multiverse amd64 Packages [23.7 kB]
Get:21 http://us-east-1.ec2.archive.ubuntu.com/ubuntu focal-updates/multiverse Translation-en [7312 B]
Get:22 http://us-east-1.ec2.archive.ubuntu.com/ubuntu focal-updates/multiverse amd64 c-n-f Metadata [580 B]
Get:23 http://us-east-1.ec2.archive.ubuntu.com/ubuntu focal-backports/main amd64 Packages [42.0 kB]
Get:24 http://us-east-1.ec2.archive.ubuntu.com/ubuntu focal-backports/main Translation-en [10.0 kB]
Get:25 http://us-east-1.ec2.archive.ubuntu.com/ubuntu focal-backports/main amd64 c-n-f Metadata [864 B]
Get:26 http://us-east-1.ec2.archive.ubuntu.com/ubuntu focal-backports/restricted amd64 c-n-f Metadata [116 B]
Get:27 http://us-east-1.ec2.archive.ubuntu.com/ubuntu focal-backports/universe amd64 Packages [22.0 kB]
Get:28 http://us-east-1.ec2.archive.ubuntu.com/ubuntu focal-backports/universe Translation-en [15.2 kB]
Get:29 http://us-east-1.ec2.archive.ubuntu.com/ubuntu focal-backports/universe amd64 c-n-f Metadata [728 B]
Get:30 http://us-east-1.ec2.archive.ubuntu.com/ubuntu focal-backports/multiverse amd64 c-n-f Metadata [116 B]
Get:31 http://security.ubuntu.com/ubuntu focal-security/main amd64 Packages [1265 kB]
Get:32 http://security.ubuntu.com/ubuntu focal-security/main Translation-en [221 kB]
Get:33 http://security.ubuntu.com/ubuntu focal-security/main amd64 c-n-f Metadata [9624 B]
Get:34 http://security.ubuntu.com/ubuntu focal-security/restricted amd64 Packages [764 kB]
Get:35 http://security.ubuntu.com/ubuntu focal-security/restricted Translation-en [109 kB]
Get:36 http://security.ubuntu.com/ubuntu focal-security/restricted amd64 c-n-f Metadata [504 B]
Get:37 http://security.ubuntu.com/ubuntu focal-security/universe amd64 Packages [679 kB]
Get:38 http://security.ubuntu.com/ubuntu focal-security/universe Translation-en [116 kB]
Get:39 http://security.ubuntu.com/ubuntu focal-security/universe amd64 c-n-f Metadata [13.1 kB]
Get:40 http://security.ubuntu.com/ubuntu focal-security/multiverse amd64 Packages [20.7 kB]
Get:41 http://security.ubuntu.com/ubuntu focal-security/multiverse Translation-en [5196 B]
Get:42 http://security.ubuntu.com/ubuntu focal-security/multiverse amd64 c-n-f Metadata [500 B]
Fetched 21.9 MB in 4s (5687 kB/s)
Reading package lists... Done
root@ip-172-31-83-241:/home/ubuntu#
```

```
Get:35 http://security.ubuntu.com/ubuntu focal-security/restricted Translation-en [109 kB]
Get:36 http://security.ubuntu.com/ubuntu focal-security/restricted amd64 c-n-f Metadata [504 B]
Get:37 http://security.ubuntu.com/ubuntu focal-security/universe amd64 Packages [679 kB]
Get:38 http://security.ubuntu.com/ubuntu focal-security/universe Translation-en [116 kB]
Get:39 http://security.ubuntu.com/ubuntu focal-security/universe amd64 c-n-f Metadata [13.1 kB]
Get:40 http://security.ubuntu.com/ubuntu focal-security/multiverse amd64 Packages [20.7 kB]
Get:41 http://security.ubuntu.com/ubuntu focal-security/multiverse Translation-en [5196 B]
Get:42 http://security.ubuntu.com/ubuntu focal-security/multiverse amd64 c-n-f Metadata [500 B]
Fetched 21.9 MB in 4s (5687 kB/s)
Reading package lists... Done
root@ip-172-31-83-241:/home/ubuntu# wget -O - https://fsx-lustre-client-repo-public-keys.s3.amazonaws.com/fsx-ubuntu-public-key.asc | su
do apt-key add -
--2022-02-23 17:48:13--  https://fsx-lustre-client-repo-public-keys.s3.amazonaws.com/fsx-ubuntu-public-key.asc
Resolving fsx-lustre-client-repo-public-keys.s3.amazonaws.com (fsx-lustre-client-repo-public-keys.s3.amazonaws.com)... 52.216.114.195
Connecting to fsx-lustre-client-repo-public-keys.s3.amazonaws.com (fsx-lustre-client-repo-public-keys.s3.amazonaws.com)|52.216.114.195|:
443... connected.
HTTP request sent, awaiting response... 200 OK
Length: 3819 (3.7K) [text/plain]
Saving to: 'STDOUT'

-                                   100%[=================================================================>]   3.73K  --.-KB/s    in 0s

2022-02-23 17:48:13 (175 MB/s) - written to stdout [3819/3819]

OK
root@ip-172-31-83-241:/home/ubuntu#
```

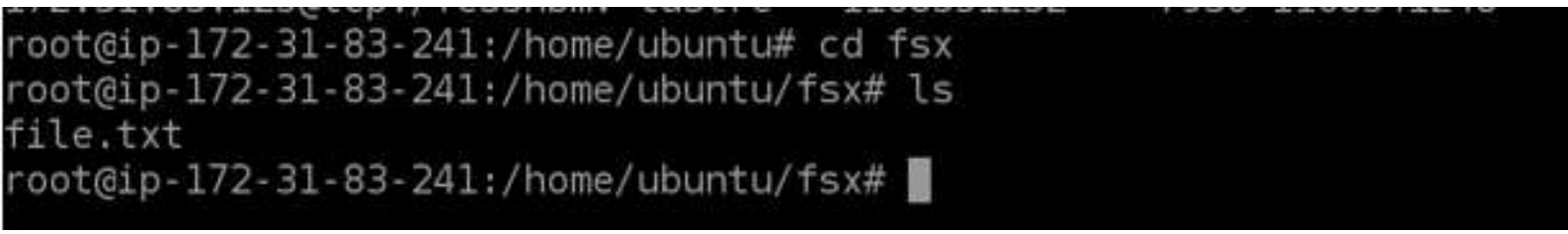
```
--2022-02-23 17:48:13--  https://fsx-lustre-client-repo-public-keys.s3.amazonaws.com/fsx-ubuntu-public-key.asc
Resolving fsx-lustre-client-repo-public-keys.s3.amazonaws.com (fsx-lustre-client-repo-public-keys.s3.amazonaws.com)... 52.216.114.195
Connecting to fsx-lustre-client-repo-public-keys.s3.amazonaws.com (fsx-lustre-client-repo-public-keys.s3.amazonaws.com)|52.216.114.195|:
443... connected.
HTTP request sent, awaiting response... 200 OK
Length: 3819 (3.7K) [text/plain]
Saving to: 'STDOUT'

-                                   100%[=============================================================>]   3.73K  --.-KB/s    in 0s

2022-02-23 17:48:13 (175 MB/s) - written to stdout [3819/3819]

OK
root@ip-172-31-83-241:/home/ubuntu# sudo bash -c 'echo "deb https://fsx-lustre-client-repo.s3.amazonaws.com/ubuntu focal main" > /etc/ap
t/sources.list.d/fsxlustreclientrepo.list && apt-get update'
Hit:1 http://us-east-1.ec2.archive.ubuntu.com/ubuntu focal InRelease
Hit:2 http://us-east-1.ec2.archive.ubuntu.com/ubuntu focal-updates InRelease
Hit:3 http://us-east-1.ec2.archive.ubuntu.com/ubuntu focal-backports InRelease
Get:4 https://fsx-lustre-client-repo.s3.amazonaws.com/ubuntu focal InRelease [3274 B]
Hit:5 http://security.ubuntu.com/ubuntu focal-security InRelease
Get:6 https://fsx-lustre-client-repo.s3.amazonaws.com/ubuntu focal/main amd64 Packages [13.3 kB]
Fetched 16.5 kB in 0s (36.1 kB/s)
Reading package lists... Done
root@ip-172-31-83-241:/home/ubuntu# uname -r
5.11.0-1022-aws
root@ip-172-31-83-241:/home/ubuntu#
```

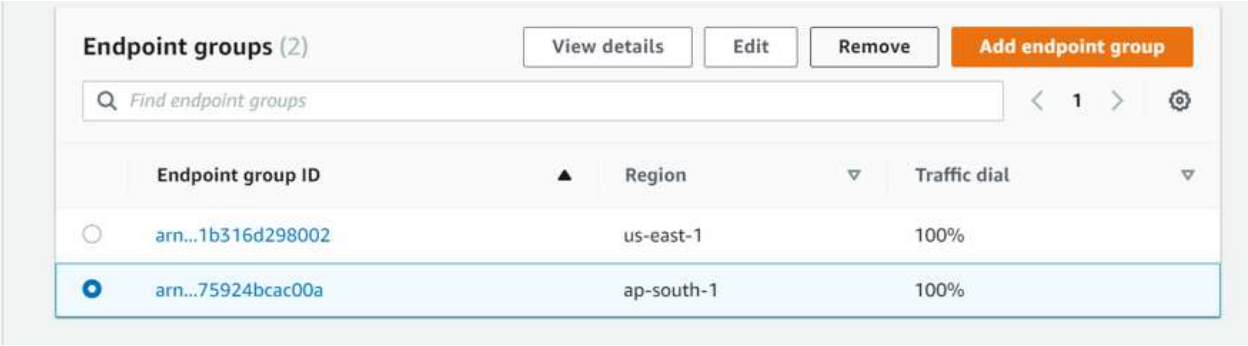
```
Building dependency tree
Reading state information... Done
The following additional packages will be installed:
  lustre-utils
The following NEW packages will be installed:
  lustre-client-modules-5.11.0-1022-aws lustre-utils
0 upgraded, 2 newly installed, 0 to remove and 75 not upgraded.
Need to get 25.8 MB of archives.
After this operation, 172 MB of additional disk space will be used.
Get:1 https://fsx-lustre-client-repo.s3.amazonaws.com/ubuntu focal/main amd64 lustre-client-modules-5.11.0-1022-aws amd64 2.10.8-1fsx9 [
25.3 MB]
Get:2 https://fsx-lustre-client-repo.s3.amazonaws.com/ubuntu focal/main amd64 lustre-utils amd64 2.10.8-1fsx9 [484 kB]
Fetched 25.8 MB in 1s (20.5 MB/s)
Selecting previously unselected package lustre-client-modules-5.11.0-1022-aws.
(Reading database ... 63895 files and directories currently installed.)
Preparing to unpack .../lustre-client-modules-5.11.0-1022-aws_2.10.8-1fsx9_amd64.deb ...
Unpacking lustre-client-modules-5.11.0-1022-aws (2.10.8-1fsx9) ...
Selecting previously unselected package lustre-utils.
Preparing to unpack .../lustre-utils_2.10.8-1fsx9_amd64.deb ...
Unpacking lustre-utils (2.10.8-1fsx9) ...
Setting up lustre-utils (2.10.8-1fsx9) ...
Setting up lustre-client-modules-5.11.0-1022-aws (2.10.8-1fsx9) ...
Processing triggers for systemd (245.4-4ubuntu3.13) ...
Processing triggers for man-db (2.9.1-1) ...
```

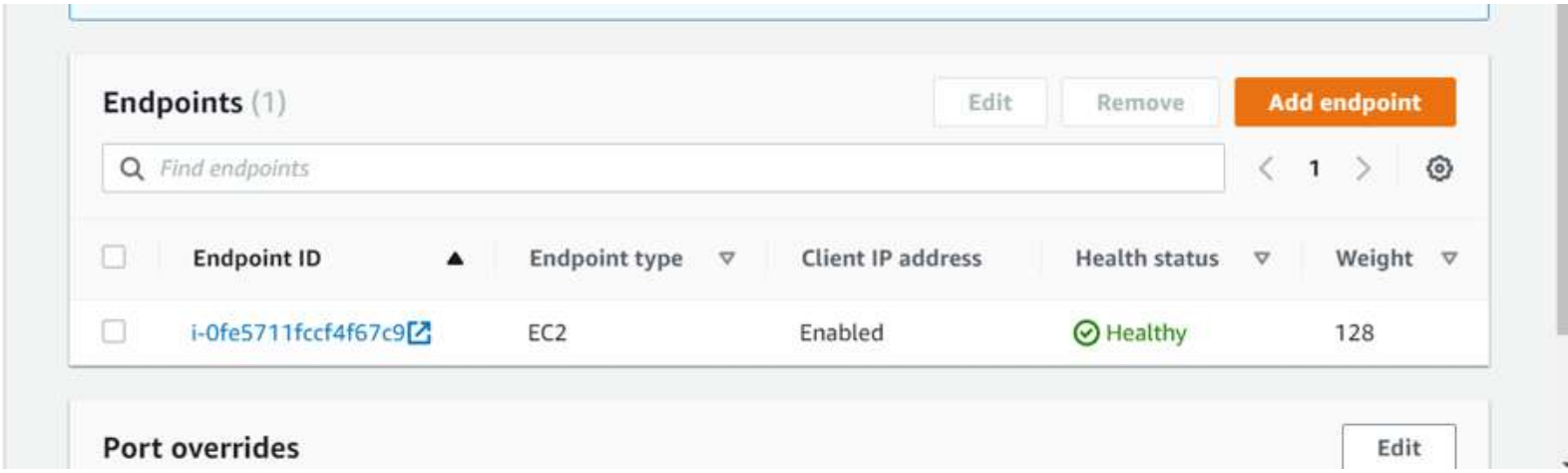
```
  lustre-utils
The following NEW packages will be installed:
  lustre-client-modules-5.11.0-1022-aws lustre-utils
0 upgraded, 2 newly installed, 0 to remove and 75 not upgraded.
Need to get 25.8 MB of archives.
After this operation, 172 MB of additional disk space will be used.
Get:1 https://fsx-lustre-client-repo.s3.amazonaws.com/ubuntu focal/main amd64 lustre-client-modules-5.11.0-1022-aws amd64 2.10.8-1fsx9 [
25.3 MB]
Get:2 https://fsx-lustre-client-repo.s3.amazonaws.com/ubuntu focal/main amd64 lustre-utils amd64 2.10.8-1fsx9 [484 kB]
Fetched 25.8 MB in 1s (20.5 MB/s)
Selecting previously unselected package lustre-client-modules-5.11.0-1022-aws.
(Reading database ... 63895 files and directories currently installed.)
Preparing to unpack .../lustre-client-modules-5.11.0-1022-aws_2.10.8-1fsx9_amd64.deb ...
Unpacking lustre-client-modules-5.11.0-1022-aws (2.10.8-1fsx9) ...
Selecting previously unselected package lustre-utils.
Preparing to unpack .../lustre-utils_2.10.8-1fsx9_amd64.deb ...
Unpacking lustre-utils (2.10.8-1fsx9) ...
Setting up lustre-utils (2.10.8-1fsx9) ...
Setting up lustre-client-modules-5.11.0-1022-aws (2.10.8-1fsx9) ...
Processing triggers for systemd (245.4-4ubuntu3.13) ...
Processing triggers for man-db (2.9.1-1) ...
Processing triggers for libc-bin (2.31-0ubuntu9.2) ...
root@ip-172-31-83-241:/home/ubuntu# mkdir /fsx
bash: mkdir /fsx: No such file or directory
root@ip-172-31-83-241:/home/ubuntu# mkdir fsx
root@ip-172-31-83-241:/home/ubuntu#
```

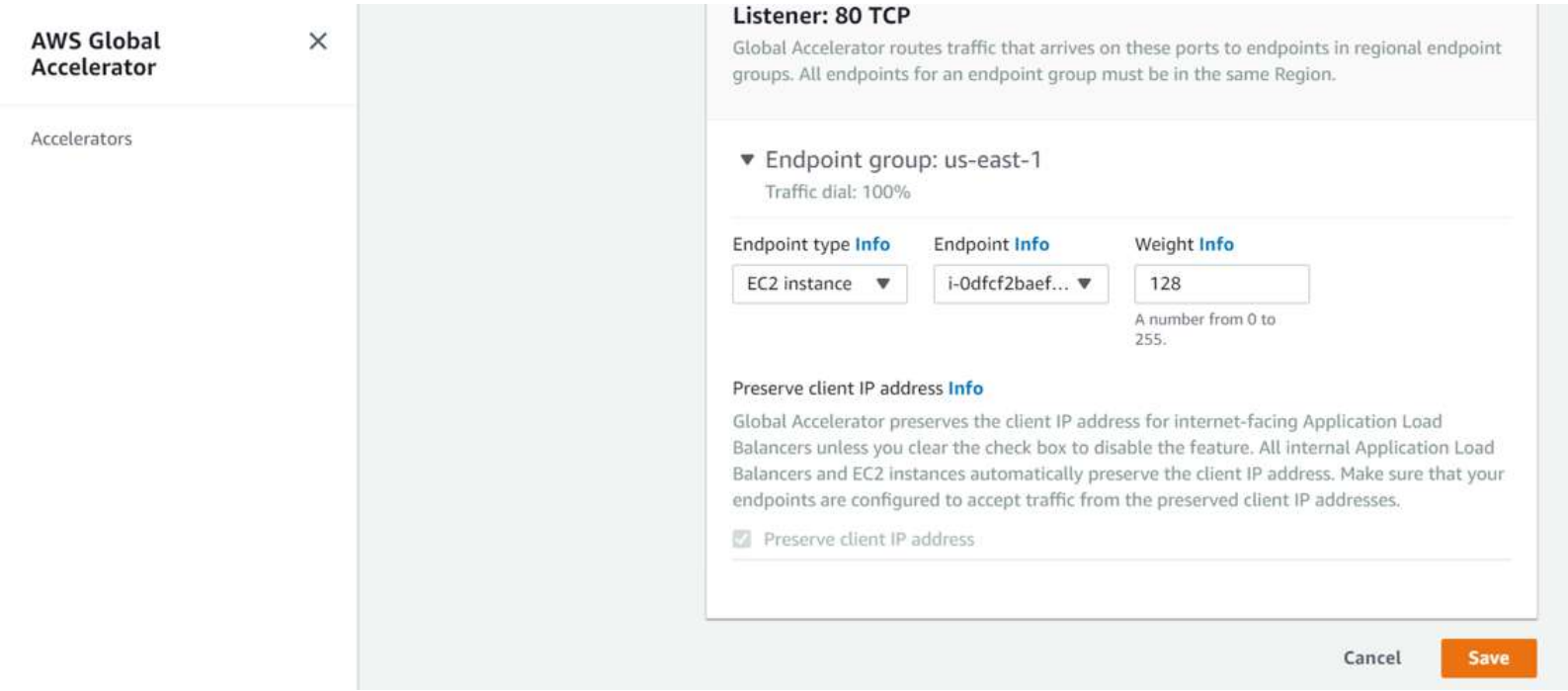
```
root@ip-172-31-83-241:/home/ubuntu# mount -t lustre -o noatime,flock fs-0adac8ee9496063d1.fsx.us-east-1.amazonaws.com@tcp:/fc35hbmv fsx
root@ip-172-31-83-241:/home/ubuntu#
```

```
root@ip-172-31-83-241:/home/ubuntu# df -T
Filesystem                     Type      1K-blocks    Used  Available Use% Mounted on
/dev/root                      ext4        8065444 1819452    6229608  23% /
devtmpfs                       devtmpfs     489496       0     489496   0% /dev
tmpfs                          tmpfs        496100       0     496100   0% /dev/shm
tmpfs                          tmpfs         99224     812      98412   1% /run
tmpfs                          tmpfs          5120       0       5120   0% /run/lock
tmpfs                          tmpfs        496100       0     496100   0% /sys/fs/cgroup
/dev/loop1                     squashfs      56832   56832          0 100% /snap/core18/2253
/dev/loop3                     squashfs      68864   68864          0 100% /snap/lxd/21835
/dev/loop2                     squashfs      63360   63360          0 100% /snap/core20/1242
/dev/loop0                     squashfs      25600   25600          0 100% /snap/amazon-ssm-agent/4046
/dev/loop4                     squashfs      43264   43264          0 100% /snap/snapd/14066
tmpfs                          tmpfs         99220       0      99220   0% /run/user/1000
172.31.83.125@tcp:/fc35hbmv lustre   1168351232    7936 1168341248   1% /home/ubuntu/fsx
root@ip-172-31-83-241:/home/ubuntu#
```


root@ip-172-31-83-241:/home/ubuntu# cd fsx
root@ip-172-31-83-241:/home/ubuntu/fsx# ls
file.txt
root@ip-172-31-83-241:/home/ubuntu/fsx#


Endpoint groups (2)
View details
Edit
Remove
Add endpoint group
Find endpoint groups
1
Endpoint group ID
Region
Traffic dial
arn...1b316d298002
us-east-1
100%
arn...75924bcac00a
ap-south-1
100%


Endpoints (1)
Edit
Remove
Add endpoint
Find endpoints
1
Endpoint ID
Endpoint type
Client IP address
Health status
Weight
i-0fe5711fccf4f67c9
EC2
Enabled
Healthy
128
Port overrides
Edit


AWS Global Accelerator
Accelerators
Listener: 80 TCP
Global Accelerator routes traffic that arrives on these ports to endpoints in regional endpoint groups. All endpoints for an endpoint group must be in the same Region.
Endpoint group: us-east-1
Traffic dial: 100%
Endpoint type Info
EC2 instance
Endpoint Info
i-0dfcf2baef...
Weight Info
128
A number from 0 to 255.
Preserve client IP address Info
Global Accelerator preserves the client IP address for internet-facing Application Load Balancers unless you clear the check box to disable the feature. All internal Application Load Balancers and EC2 instances automatically preserve the client IP address. Make sure that your endpoints are configured to accept traffic from the preserved client IP addresses.
Preserve client IP address
Cancel
Save