

- EC2 Dashboard
- EC2 Global View
- Events
- Tags
- Limits
- ▼ Instances
- Instances New
- Instance Types
- Launch Templates
- Spot Requests
- Savings Plans
- Reserved Instances New
- Dedicated Hosts
- Scheduled Instances
- Capacity Reservations

Instances (1) Info

Refresh

Connect

Instance state ▼

Actions ▼

Launch instances ▼

Search

i-0209c8daf667771b0 X

Clear filters

<input type="checkbox"/>	Name ▼	Instance ID ▲	Instance state ▼	Instance type ▼	Status check	Alarm status	Availability zone
<input type="checkbox"/>	-	i-0209c8daf667771b0	<div>Pending</div>	t2.micro	-	No alarms +	us-east-1a

Select an instance

- EC2 Dashboard
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sg-0be442a09c4f7d37b (SSH-Lustre)

▼ Inbound rules

Q Filter rules

< 1 >

Security group rule ID	Port range	Protocol	Source	Security groups
sgr-0d39fe43bb199a506	988	TCP	0.0.0.0/0	SSH-Lustre
sgr-0dea006ecd9a9acc1	988	TCP	::/0	SSH-Lustre
sgr-0733db7348337901e	22	TCP	0.0.0.0/0	SSH-Lustre

▼ Outbound rules

Q Filter rules

< 1 >

Security group rule ID	Port range	Protocol	Destination	Security groups
sgr-096690516cbd862f5	All	All	0.0.0.0/0	SSH-Lustre

## Select file system type

### File system options

☐ Amazon FSx for NetApp ONTAP

**FSx**  
Amazon FSx  
for NetApp ONTAP

☐ Amazon FSx for OpenZFS

**FSx**  
Amazon FSx  
for OpenZFS

☐ Amazon FSx for Windows File  
Server

**FSx**  
Amazon FSx  
for Windows File Server

☐ Amazon FSx for Lustre

**FSx**  
Amazon FSx  
for Lustre

Select file system type

☐ 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](#)

TiB

Supported sizes: 1.2 TiB or increments of 2.4 TiB

Throughput capacity [Info](#)

Throughput capacity = Storage capacity (TiB) \* 200 MB/s/TiB

240 MB/s

Data compression type [Info](#)

Data compression reduces the physical disk space needed to store file data. Select LZ4 to enable data compression

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-76059a75 (default) ✕

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](#).

Data compression type	NONE	✓
Lustre version	2.12	
Virtual Private Cloud (VPC)	vpc-3ab53747	
VPC Security Groups	sg-76059a75	✓
Subnet	subnet-87d3aea6	
Weekly maintenance window	No preference	✓

Tags

< 1 >

Key	Value
No data	

## Amazon Linux 2 AMI

3 package(s) needed for security, out of 14 available

```
[ec2-user@ip-172-31-24-48 ~]$ ls
```



1

## 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-06aee7a1d57d93ff9.fsx.us-east-1.amazonaws.com@tcp:/ybjnhbm /fsx`

### From Amazon Elastic Kubernetes Service (EKS) use the Amazon

Close



## FSx for Lustre

Lustre User Guide

What is Amazon FSx for Lustre?

Setting up

► Getting started

File system deployment options

► Using data repositories

► Performance

▼ Accessing file systems

### Installing the Lustre client

Mount from Amazon EC2

Mounting from Amazon ECS

Mounting from on-premises  
or another VPC

Mounting Amazon FSx  
automatically

3. Do one of the following:

- If the command returns `4.14.104-95.84.amzn2.x86_64` for x86-based EC2 instances, or `4.14.181-142.260.amzn2.aarch64` or higher for AWS Graviton1- or Graviton2-powered EC2 instances, download and install the Lustre client with the following command.

```
sudo amazon-linux-extras install -y lustre2
```

- If the command returns a result less than `4.14.104-95.84.amzn2.x86_64` for x86-based EC2 instances, or less than `4.14.181-142.260.amzn2.aarch64` for AWS Graviton1- or Graviton2-powered EC2 instances, update the kernel and reboot your Amazon EC2 instance by running the following command.

## On this page

**Amazon Linux 2 and Amazon Linux**

CentOS and Red Hat

Ubuntu

SUSE Linux



Complete!

```
[ec2-user@ip-172-31-24-48 ~]$ sudo amazon-linux-extras install -y lustre2.10
```

```
tmpfs      tmpfs      494340      456      493884      1% /run
tmpfs      tmpfs      494340        0      494340      0% /sys/fs/cgroup
/dev/xvda1  xfs      8376300 1589568      6786732     19% /
tmpfs      tmpfs      98872        0      98872      0% /run/user/1000
tmpfs      tmpfs      98872        0      98872      0% /run/user/0
```

```
[root@ip-172-31-89-113 ec2-user]# df -T
```

```
df: '/fsx': Input/output error
```

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	456	493884	1%	/run
tmpfs	tmpfs	494340	0	494340	0%	/sys/fs/cgroup
/dev/xvda1	xfs	8376300	1586292	6790008	19%	/
tmpfs	tmpfs	98872	0	98872	0%	/run/user/1000
tmpfs	tmpfs	98872	0	98872	0%	/run/user/0

```
[root@ip-172-31-89-113 ec2-user]# df -T
```

```
df: '/fsx': Input/output error
```

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	456	493884	1%	/run
tmpfs	tmpfs	494340	0	494340	0%	/sys/fs/cgroup
/dev/xvda1	xfs	8376300	1586292	6790008	19%	/
tmpfs	tmpfs	98872	0	98872	0%	/run/user/1000
tmpfs	tmpfs	98872	0	98872	0%	/run/user/0

```
[root@ip-172-31-89-113 ec2-user]# █
```

ec2-user@ip-172-31-24-48 ~\$

[ec2-user@ip-172-31-24-48 ~]\$ mkdir fsx

New EC2 Experience

Tell us what you think

EC2 Dashboard

EC2 Global View

Events

Tags

Limits

▼ Instances

Instances New

Instance Types

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Spot Requests

Savings Plans

Reserved Instances New

Dedicated Hosts

Scheduled Instances

Capacity Reservations

Inbound rules

Outbound rules

Tags

You can now check network connectivity with Reachability Analyzer

Run Reachability Analyzer

Inbound rules (5)

Manage tags

Edit inbound rules

Filter security group rules

<

1

>

	Protocol	Port range	Source	Description
in TCP	TCP	988	0.0.0.0/0	–
	TCP	80	0.0.0.0/0	–
in TCP	TCP	988	::/0	–
in TCP	TCP	1021 - 1023	0.0.0.0/0	–
	TCP	22	0.0.0.0/0	–

Amazon FSx

File systems

Volumes

Backups

▼ ONTAP

Storage virtual machines

▼ OpenZFS

Snapshots

▼ Windows File Server

▼ Lustre

Data repository tasks

FSx on Service Quotas

Network & security

VPC

Default VPC | [vpc-3ab53747](#)

DNS name

fs-06aee7a1d57d93ff9.fsx.us-east-1.amazonaws.com

Subnet (subnet-87d3aea6)

Subnet

[subnet-87d3aea6 \(us-east-1c\)](#)

Availability Zone

us-east-1c

Network interface

[eni-0b5c9ed5792e76e84](#)

Network interface details

Network interface ID

 eni-0b5c9ed5792e76e84

Associated security groups

Add one or more security groups to the network interface. You can also remove security groups.

 sg-0be442a09c4f7d37b



Add security group

Security groups associated with the network interface (eni-0b5c9ed5792e76e84)

Security group name

Security group ID

No security groups attached to this network interface

Cancel

Save

```
[root@ip-172-31-90-96 ec2-user]# mkdir fsx
[root@ip-172-31-90-96 ec2-user]# mount -t lustre -o noatime,flock fs-06aee7ald57d93ff9.fsx.us-east-1.amazonaws.com@tcp:/ybjnhbmrv fsx
mount.lustre: mount fs-06aee7ald57d93ff9.fsx.us-east-1.amazonaws.com@tcp:/ybjnhbmrv at /home/ec2-user/fsx failed: Input/output error
Is the MGS running?
[root@ip-172-31-90-96 ec2-user]# mount -t lustre -o noatime,flock fs-06aee7ald57d93ff9.fsx.us-east-1.amazonaws.com@tcp:/ybjnhbmrv fsx
[root@ip-172-31-90-96 ec2-user]# █
```