

Amazon Elastic File System

Scalable, elastic, cloud-native NFS file system

Amazon Elastic File System (Amazon EFS) provides a simple, scalable, elastic file system for general purpose workloads for use with AWS Cloud services and on-premises resources.

Create file system

Create an EFS file system with recommended settings, including Elastic Throughput, Lifecycle Management, and Automatic Backups. These settings are designed to optimize the price-performance of your file system.

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Create an EFS file system with recommended settings, including Elastic Throughput, Lifecycle Management, and Automatic Backups. These settings are designed to optimize the price-performance of your file system. [Learn more](#)

Name - optional

Name your file system.

Optional. Apply a name to your file system

Name can include letters, numbers, and +-=._:/ symbols, up to 256 characters.

Virtual Private Cloud (VPC)

Choose the VPC where you want EC2 instances to connect to your file system.

vpc-041036603ad4568e2
default



Cancel

Customize

Create

General

Name - *optional*

Name your file system.

My Application EFS

Storage class [Learn more](#)

☒ Standard

Stores data redundantly across multiple AZs

☐ One Zone

Stores data redundantly within a single AZ

Automatic backups

Automatically backup your file system data with AWS Backup using recommended settings. Additional pricing applies. [Learn more](#)

☒ Enable automatic backups

Lifecycle management

EFS Intelligent-Tiering uses Lifecycle Management to automatically achieve the right price and performance blend for your application by moving your files between the Standard and Standard-Infrequent Access storage classes. [Learn more](#)

Transition into IA

Transition files from Standard to Standard-Infrequent Access.

30 day(s) since last access

Transition out of IA

Transition files from Standard-Infrequent Access to Standard.

None

Encryption

Choose to enable encryption of your file system's data at rest. Uses the AWS KMS service key (aws/elasticfilesystem) by default. [Learn more](#)

☐ Enable encryption of data at rest

Performance settings

Throughput mode

Choose a method for your file system's throughput limits. [Learn more](#)

☒ **Bursting**

Provides throughput that scales with the amount of storage for workloads with basic performance requirements.

☐ **Enhanced**

Provides more flexibility and higher throughput levels for workloads with a range of performance requirements.

▼ Additional settings

Performance mode

Set your file system's performance mode based on IOPS required. [Learn more](#)

☒ **General Purpose (Recommended)**

Ideal for a variety of diverse workloads, including high performance and latency-sensitive applications

☐ **Max I/O**

Designed for highly parallelized workloads that can tolerate higher latencies

Network

Virtual Private Cloud (VPC) [Learn more](#)

Choose the VPC where you want EC2 instances to be launched.

vpc-0b3443802a0cc7c3e

Demo VPC

subnet-044e17046721dd28e

Private Subnet 1 | App Tier -
10.0.2.0/24

subnet-0a661b5026d462dc0

Public Subnet 1 - 10.0.0.0/24

Mount targets

A mount target provides an NFSv4 endpoint for your file system.

Availability zone

us-east-2a

subnet-

0d0639b4cf1c40432

Private Subnet 3 | Database Tier
- 10.0.4.0/24

subnet-0d0639b4cf1c4...

Network access

Network

Virtual Private Cloud (VPC) [Learn more](#)

Choose the VPC where you want EC2 instances to connect to your file system.

vpc-0b3443802a0cc7c3e
Demo VPC

Mount targets

A mount target provides an NFSv4 endpoint at which you can mount an Amazon EFS file system. We recommend creating one in each Availability Zone.

Availability zone	Subnet ID	IP address
us-east-2a	subnet-0d0639b4cf1c4...	Automatic

us-east-2b

subnet-0a7cc68e4c47d...

Automatic

sg-0fba93ccaa1d74a12
default

sg-0139150df583dd322
Webserver Security Group

sg-09dcf44d3a2483a0e
EFS Security Group

sg-0b5ebd983b97ee7a3
Database Security Group

sg-0d73ffb2b173f790a
ALB Security Group

Choose security groups

subnet-0a7cc68e4c47d8a1d
Private Subnet 4 | Database Tier - 10.0.5.0/24

sg-09dcf44d3a2483a0e
EFS Security Group

Choose security groups

sg-09dcf44d3a2483a0e
EFS Security Group

Proceed to next until you show the "Create" button and create EFS.

File systems (1)

Filter by property values

< 1 >

Name	File system ID	Encryption	Total size	Size in Standard / One Zone	Size in Standard-IA / One Zone-IA	Provisioned Throughput (MiB/s)	File system state	Creation time	Availability Zone
My Application EFS	fs-0f4ceeb356e19463e	Unencrypted	6.00 KiB	6.00 KiB	0 Bytes	-	Available	Mon, 05 Jun 2023 02:45:11 GMT	us-east-2a

Amazon EFS > File systems > fs-0f4ceeb356e19463e

My Application EFS (fs-0f4ceeb356e19463e)

Delete **Attach**

General Edit

Performance mode General Purpose	Automatic backups Enabled
Throughput mode Bursting	Encrypted No
Lifecycle management Transition into IA: 30 day(s) since last access Transition out of IA: None	File system state Available
Availability zone Standard	DNS name fs-0f4ceeb356e19463e.efs.us-east-2.amazonaws.com

Attach

Mount your Amazon EFS file system on a Linux instance. [Learn more](#)

☒ Mount via DNS ☐ Mount via IP

Using the EFS mount helper:

```
sudo mount -t efs -o tls fs-0f4ceeb356e19463e:/ efs
```

Using the NFS client:

```
sudo mount -t nfs4 -o nfsvers=4.1,rsize=1048576,wsize=1048576,hard,timeo=600,retrans=2,noresvport fs-0f4ceeb356e19463e.efs.us-east-2.amazonaws.com:/ efs
```

See our user guide for more information. [Learn more](#)

Close

To mount NFS4 Failed to Resolve Server, go to VPC

Your VPCs (1/2)

Filter VPCs

	Name	VPC ID	State	IPv4 CIDR	IPv6 CIDR	
<input checked="" type="checkbox"/>	Demo VPC	vpc-0b3443802a0cc7c3e	Available	10.0.0.0/16	-	
<input type="checkbox"/>	-	vpc-041036603ad4568e2	Available	172.31.0.0/16	-	

Actions

- Create default VPC
- Create flow log
- Edit VPC settings**
- Edit CIDRs
- Manage middlebox routes
- Manage tags
- Delete VPC

DNS settings

☒ Enable DNS resolution [Info](#)

☒ **Enable DNS hostnames** [Info](#)