

Synchronized Data using Data Sync

Create a Data Sync Appliance

AWS Console → go to Datasync →

DataSync > Agents > Create Agent

Create agent

Deploy agent
Before continuing, ensure you have deployed and started the agent VM. Your agent can run on either an on-premises VMware ESXi hypervisor or Amazon EC2.

VMware ESXi hypervisor
Download the image and deploy on your on-premises VMware ESXi hypervisor.
[Download image](#)

Amazon EC2
Create an EC2 instance using the AMIs provided in our User Guide. [Learn more](#)

Service endpoint

Choose the service endpoints that this agent will connect to. [Learn more](#)

Public service endpoints in Asia Pacific (Sydney)

Activation key

Activation securely associates the agent that you deployed with your AWS account. [Learn more](#)

Agent address
When your sync agent has been deployed, enter the domain name or IP address. Make sure that this is an address that you control.

<https://docs.aws.amazon.com/datasync/latest/userguide/deploy-agents.html#ec2-deploy-agent>

| AWS Region | AMI Name | AMI ID | URL |
|----------------|-------------------------|-----------------------|---------------------------------|
| ap-east-1 | aws-datasync-1578601791 | ami-0a2228f0c42627cf4 | Launch instance |
| ap-northeast-1 | aws-datasync-1578601791 | ami-05c17aa2b793ebd3e | Launch instance |
| ap-northeast-2 | aws-datasync-1578601791 | ami-04709cb141754b5a2 | Launch instance |
| ap-south-1 | aws-datasync-1578601791 | ami-0b3027fa88024fa10 | Launch instance |
| ap-southeast-1 | aws-datasync-1578601791 | ami-05e784c943c98d3bc | Launch instance |
| ap-southeast-2 | aws-datasync-1578601791 | ami-017f985d24cf954d5 | Launch instance |
| ca-central-1 | aws-datasync-1578601791 | ami-0678ddd97941bb7fb | Launch instance |
| eu-central-1 | aws-datasync-1578601791 | ami-07bdc055550cce299 | Launch instance |
| eu-north-1 | aws-datasync-1578601791 | ami-0410d0dc8bc70f33b | Launch instance |
| eu-west-1 | aws-datasync-1578601791 | ami-0122531d38aec1fbf | Launch instance |
| eu-west-2 | aws-datasync-1578601791 | ami-059bd3460ccf61554 | Launch instance |
| eu-west-3 | aws-datasync-1578601791 | ami-05c6a0e4c1d6de4be | Launch instance |
| me-south-1 | aws-datasync-1578601791 | ami-0cbe61a092cd25ad7 | Launch instance |

Select **Launch instance** related to your region.

Step 2: Choose an Instance Type

| | | | | | |
|-------------------------------------|-------------------|--------------|----|-----|---------------|
| <input type="checkbox"/> | Compute optimized | c5d.2xlarge | 8 | 16 | 1 x 200 (SSD) |
| <input type="checkbox"/> | Compute optimized | c5d.4xlarge | 16 | 32 | 1 x 400 (SSD) |
| <input type="checkbox"/> | Compute optimized | c5d.9xlarge | 36 | 72 | 1 x 900 (SSD) |
| <input type="checkbox"/> | Compute optimized | c5d.12xlarge | 48 | 96 | 2 x 900 (SSD) |
| <input type="checkbox"/> | Compute optimized | c5d.18xlarge | 72 | 144 | 2 x 900 (SSD) |
| <input type="checkbox"/> | Compute optimized | c5d.24xlarge | 96 | 192 | 4 x 900 (SSD) |
| <input type="checkbox"/> | Compute optimized | c5d.metal | 96 | 192 | 4 x 900 (SSD) |
| <input checked="" type="checkbox"/> | Compute optimized | c5.large | 2 | 4 | EBS only |
| <input type="checkbox"/> | Compute optimized | c5.xlarge | 4 | 8 | EBS only |
| <input type="checkbox"/> | Compute optimized | c5.2xlarge | 8 | 16 | EBS only |
| <input type="checkbox"/> | Compute optimized | c5.4xlarge | 16 | 32 | EBS only |
| <input type="checkbox"/> | Compute optimized | c5.9xlarge | 36 | 72 | EBS only |
| <input type="checkbox"/> | Compute optimized | c5.12xlarge | 48 | 96 | EBS only |
| <input type="checkbox"/> | Compute optimized | c5.18xlarge | 72 | 144 | EBS only |
| <input type="checkbox"/> | Compute optimized | c5.24xlarge | 96 | 192 | EBS only |

Choose c5.lange instance

Create Data Sync VPC Endpoint in the same VPC of the DataSync Agent

[Endpoints](#) > Create Endpoint

Create Endpoint

A VPC endpoint allows you to securely connect your VPC to another service.

An interface endpoint is powered by [PrivateLink](#), and uses an elastic network interface (ENI) as an entry point for traffic destined to the service.

A gateway endpoint serves as a target for a route in your route table for traffic destined for the service.

- Service category ☒ AWS services
- ☐ Find service by name
- ☐ Your AWS Marketplace services

Service Name com.amazonaws.ap-southeast-2.datasync ⓘ

1 to 2 of 2

| Service Name | Owner | Type |
|--|--------|-----------|
| <input type="radio"/> com.amazonaws.ap-southeast-2.dataexch... | amazon | Interface |
| <input checked="" type="radio"/> com.amazonaws.ap-southeast-2.datasync | amazon | Interface |

VPC* vpc-01a349bca0f45e462 ⓘ

Subnets subnet-08c5c9b9531d599e0 ⓘ subnet-0033f8656c118d4ef ⓘ subnet-010b96490ad29df87 ⓘ ⓘ

| Availability Zone | Subnet ID |
|---|-------------------------------------|
| <input checked="" type="checkbox"/> ap-southeast-2a (apse2-az1) | subnet-08c5c9b9531d599e0 (Test-1a) |
| <input checked="" type="checkbox"/> ap-southeast-2b (apse2-az3) | subnet-0033f8656c118d4ef (Test-1b) |
| <input checked="" type="checkbox"/> ap-southeast-2c (apse2-az2) | subnet-010b96490ad29df87 (Test-1c) |

Then, we connect the endpoint with DataSync Agent

Service endpoint

Choose the service endpoints that this agent will connect to. [Learn more](#)

VPC endpoints using AWS PrivateLink

VPC Endpoint
The Virtual Private Cloud endpoint that the agent has access to.

vpce-04495f7e77b24b794 (com.amazonaws.ap-southeast-2.datasync) [Create VPC Endpoint](#)

Subnet
The subnet in which elastic network interfaces will be created for tasks that run on this agent.

Test-1a (subnet-08c5c9b9531d599e0) 10.0.1.220 [Create Subnet](#)

Security Group
The security group that will protect the elastic network interfaces for tasks that run on this agent.

Data-Sync-Endpoint (sg-0f91fb0827535242f) [Create Security Group](#)

Activation key

Activation securely associates the agent that you deployed with your AWS account. [Learn more](#)

Agent address
When your sync agent has been deployed, enter the domain name or IP address. Make sure that this is an address that you control.

10.0.1.168

When you choose Get key, your browser will connect to this domain name or IP address to get a unique activation key from your sync agent. This address doesn't need to be accessible from outside your network.

Notice: we need to have a security group that allow Data Sync Appliance to send traffic to the Endpoint, for example:

Security group name [Info](#)

Data-Sync-Endpoint

Name cannot be edited after creation.

Description [Info](#)

Allow Data-Sync-Appliance to access

VPC [Info](#)

vpc-01a349bca0f45e462 (VPC-Test)

Inbound rules

[Info](#)

| Type | Protocol | Port range | Source | Description - optional | |
|--------------------------|----------|------------|-----------------------------|------------------------|--------|
| All TCP | TCP | 0 - 65535 | Custom sg-0321bd054aa8df85e | | Delete |
| Add rule | | | | | |

Outbound rules

[Info](#)

| Type | Protocol | Port range | Destination | Description - optional | |
|--------------------------|----------|------------|------------------|------------------------|--------|
| All traffic | All | All | Custom 0.0.0.0/0 | | Delete |
| Add rule | | | | | |

Create Target Location --- we can use S3 bucket here.

Location details

Location type

Amazon S3 bucket

S3 bucket

Choose an S3 bucket in the current region.

devopssync

S3 storage class

Choose a storage class you want your objects to be transferred into.

Standard

Folder

Choose a folder prefix that will be used for the data transfer.

IAM role

Used to access the selected S3 bucket. [Learn more](#)

AWSDataSyncS3BucketAccess-devopssync

Autogenerate

The selected bucket already has an autogenerated role: AWSDataSyncS3BucketAccess-devopssync

Tags

Key

Enter key

Value

Enter value

Remove tag

Add tag

Then create the source, we can use a Window SMB share folder as source.

Locations (2)

Locations are endpoints for tasks, such as an on-premises file system or AWS storage service.

Search

| <input type="checkbox"/> | Location ID | Host | Path | Type |
|--------------------------|-----------------------|------------|---------|------|
| <input type="checkbox"/> | loc-0920e234c6ae8fdea | devopssync | / | S3 |
| <input type="checkbox"/> | loc-0efe77a03f85cf8b2 | 10.0.1.241 | /share/ | SMB |

Then we can we create a task to start synchronizing data from our source to the destination.