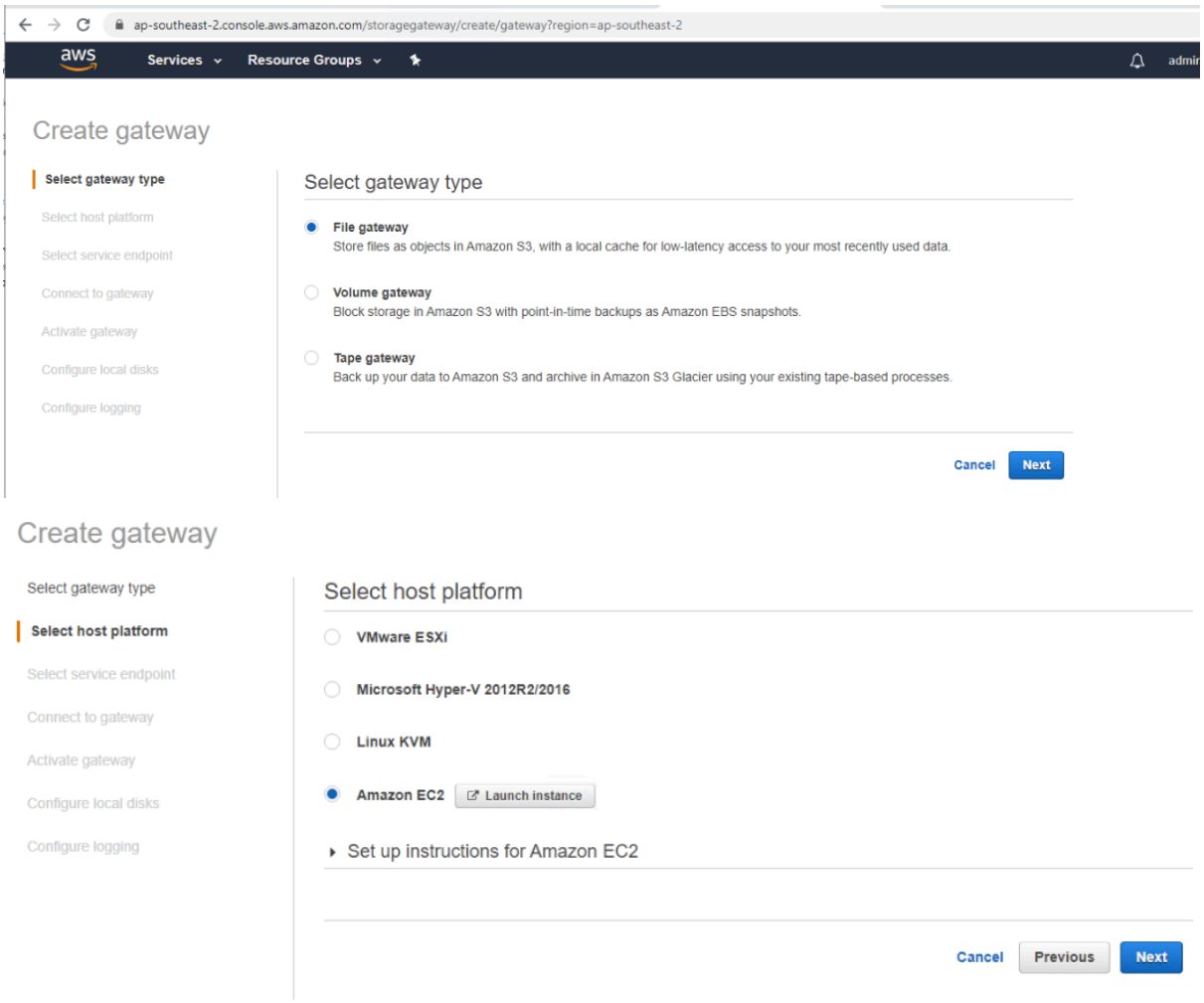
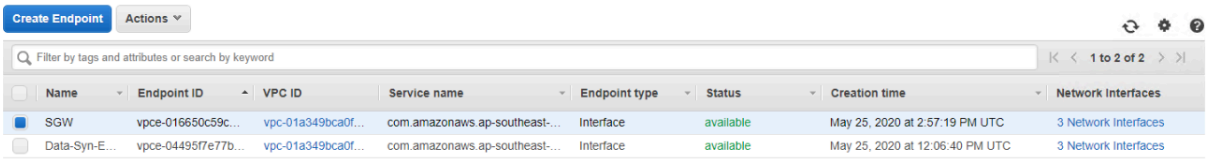
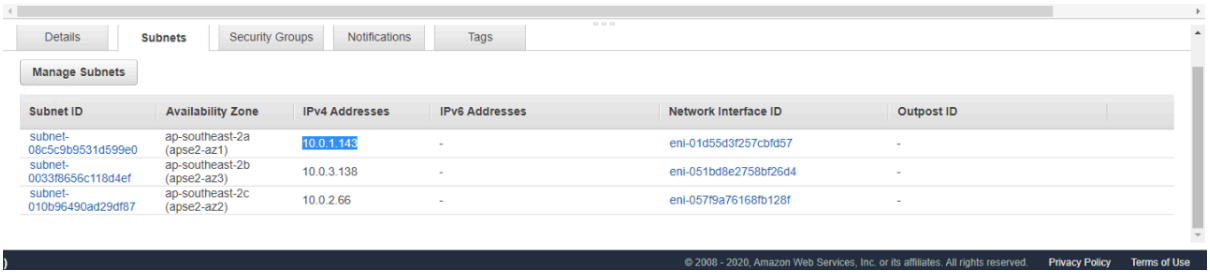
Create Scalable Storage(8EB) using Storage Gateway

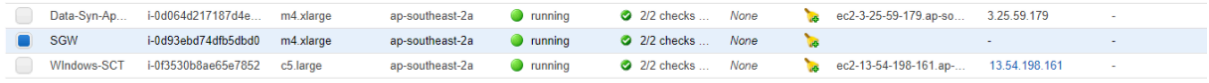


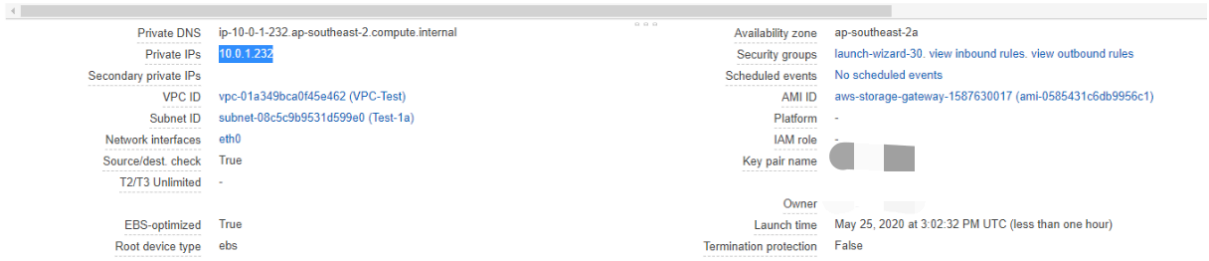
Create the Storage Gateway VPC Endpoint





Create an Storage Gateway Appliance in the same VPC as the end point we created in previous step.





Inbound rules for SGW appliance

Inbound rules | Outbound rules | Tags

Inbound rules

Type	Protocol	Port range	Source	Description
HTTP	TCP	80	0.0.0.0/0	-
SSH	TCP	22	0.0.0.0/0	-
SMB	TCP	445	0.0.0.0/0	-
NFS	TCP	2049	0.0.0.0/0	-

1. Choose AMI | 2. Choose Instance Type | 3. Configure Instance | 4. Add Storage | 5. Add Tags | 6. Configure Security Group | 7. Review

Step 3: Configure Instance Details

Configure the instance to suit your requirements. You can launch multiple instances from the same AMI, request Spot instances to take advantage of the lower pricing, assig

Number of instances	1 Launch into Auto Scaling Group
Purchasing option	Request Spot instances
Network	vpc-01a349bca0f45e462 | VPC-Test Create new VPC
Subnet	subnet-08c5c9b9531d599e0 | Test-1a | ap-southeas Create new subnet 243 IP Addresses available
Auto-assign Public IP	Use subnet setting (Disable)
Placement group	Add instance to placement group
Capacity Reservation	Open Create new Capacity Reservation
IAM role	None Create new IAM role
CPU options	Specify CPU options
Shutdown behavior	Stop
Stop - Hibernate behavior	Enable hibernation as an additional stop behavior
Enable termination protection	Protect against accidental termination
Monitoring	Enable CloudWatch detailed monitoring Additional charges apply.
EBS-optimized instance	Launch as EBS-optimized instance
Tenancy	Shared - Run a shared hardware instance

Add 150GB for buffer

1. Choose AMI | 2. Choose Instance Type | 3. Configure Instance | 4. Add Storage | 5. Add Tags | 6. Configure Security Group | 7. Review

Step 4: Add Storage

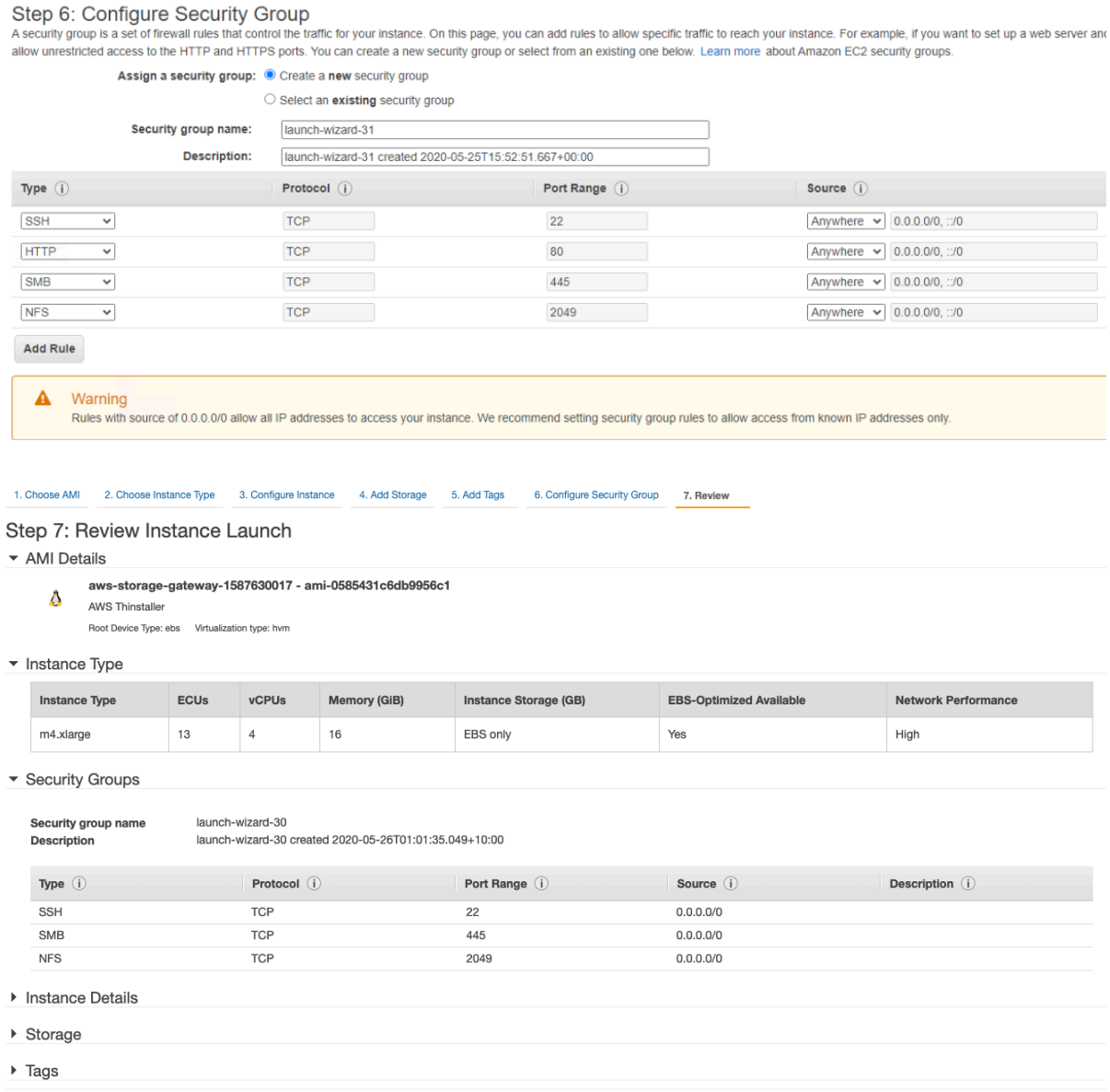
Your instance will be launched with the following storage device settings. You can attach additional EBS volumes and instance store volumes to your instance, or edit the settings of the root volume. You can also attach additional EBS volumes after launching an instance, but not instance store volumes. Learn more about storage options in Amazon EC2.

Volume Type	Device	Snapshot	Size (GiB)	Volume Type	IOPS	Throughput (MB/s)	Delete on Termination	Encryption
Root	/dev/xvda	snap-0c8558e9e99cea7d1	80	General Purpose SSD (gp2)	240 / 3000	N/A	☑	Not Encrypted
EBS	/dev/sdb	Search (case-insensit	150	General Purpose SSD (gp2)	450 / 3000	N/A	☐	Not Encrypted

Add New Volume

Free tier eligible customers can get up to 30 GB of EBS General Purpose (SSD) or Magnetic storage. Learn more about free usage tier eligibility and usage restrictions.

Open SMB and NFS ports

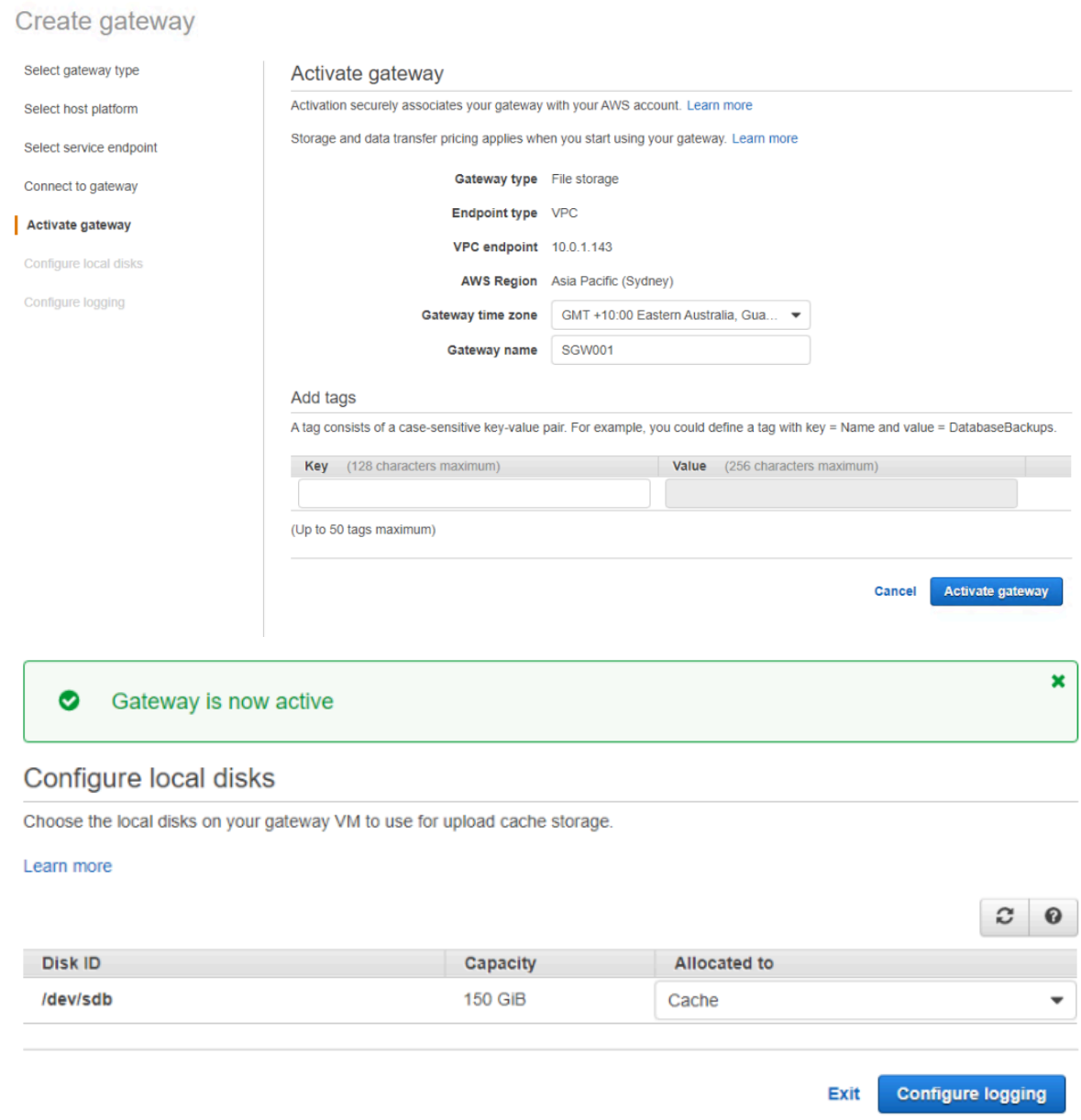


Storage Gateway EC2 Appliance(SGA) must have public IP

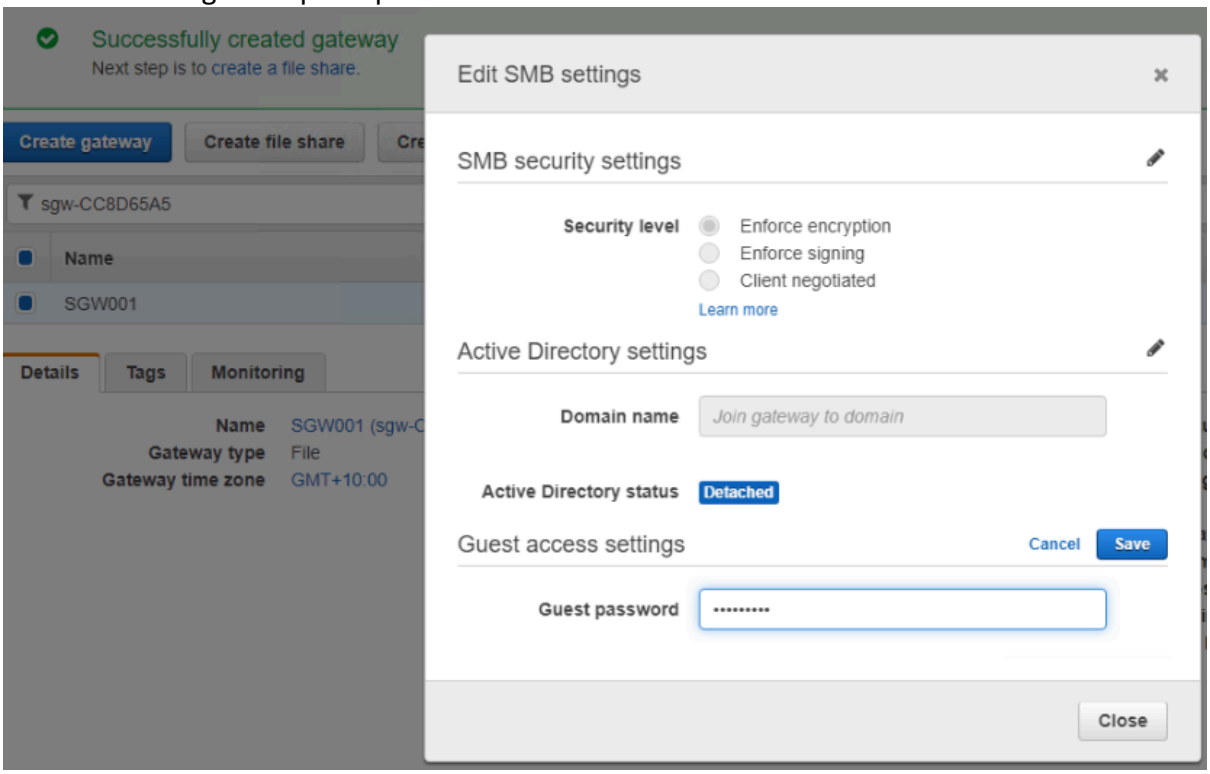
If we don't assign a public IP to the Storage Gateway Appliance, we will get stuck in the updating state in process of file share creation.

For connecting Storage Gateway Appliance with Storage Gateway endpoint, we need to assign the SGA to the default VPC security group which was allowed to send inbound traffic to the end point.

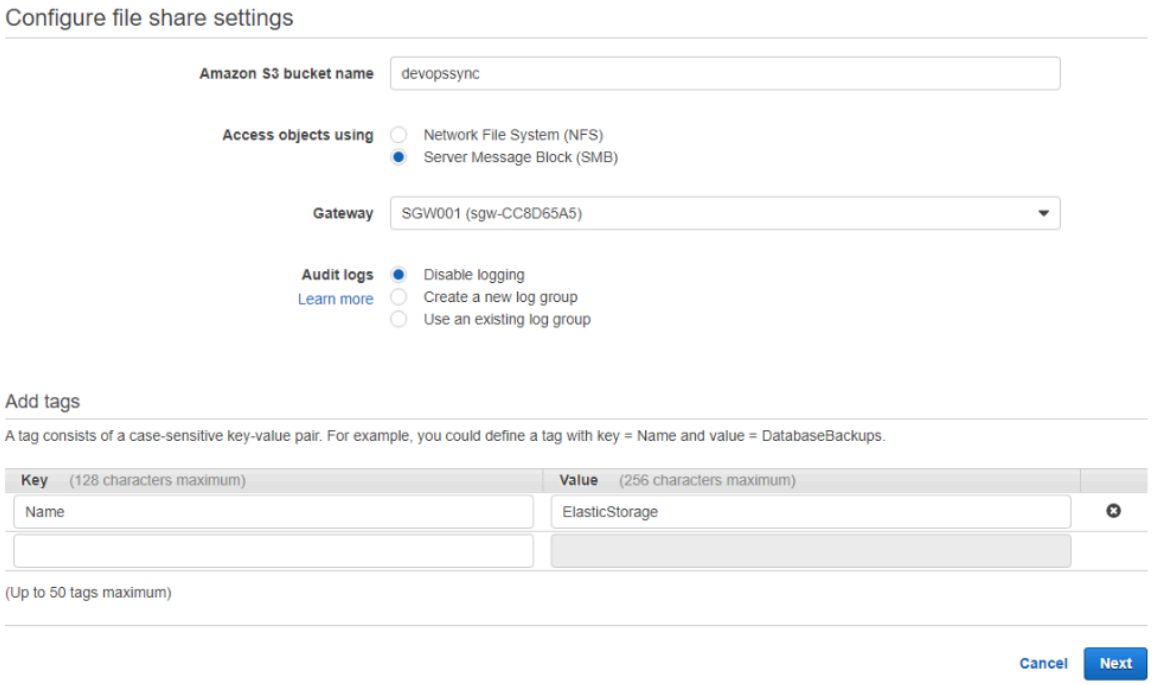
Select the right time zone



Edit SMB settings set up the password for Guest



Create file share



Create file share

- File share settings
- Storage
- **Review**

Review

Gateway	SGW001 (sgw-CC8D65A5)
Amazon S3 bucket name	devopssync
Storage class for new objects	S3 Intelligent-Tiering ⚠ Choose Intelligent-Tiering to optimize storage costs by automatically moving data to the most cost-effective storage access tier. Objects stored in the Intelligent-Tiering storage class can incur additional charges for overwriting, deleting, or retrieving. Consider how often these objects change, how long you plan to keep these objects, and how often you need to access them. Objects less than 128 KB are not eligible for autotiering in the Intelligent-Tiering storage class. These objects are stored in Standard. Learn more
Access objects using	SMB
Guess MIME type	Yes
Give bucket owner full control	Yes
Enable requester pays	No
Access to your S3 bucket	Create a new IAM role. Learn more
Encryption	S3-Managed Keys (SSE-S3)
Audit logs	Disable logging

SMB share settings

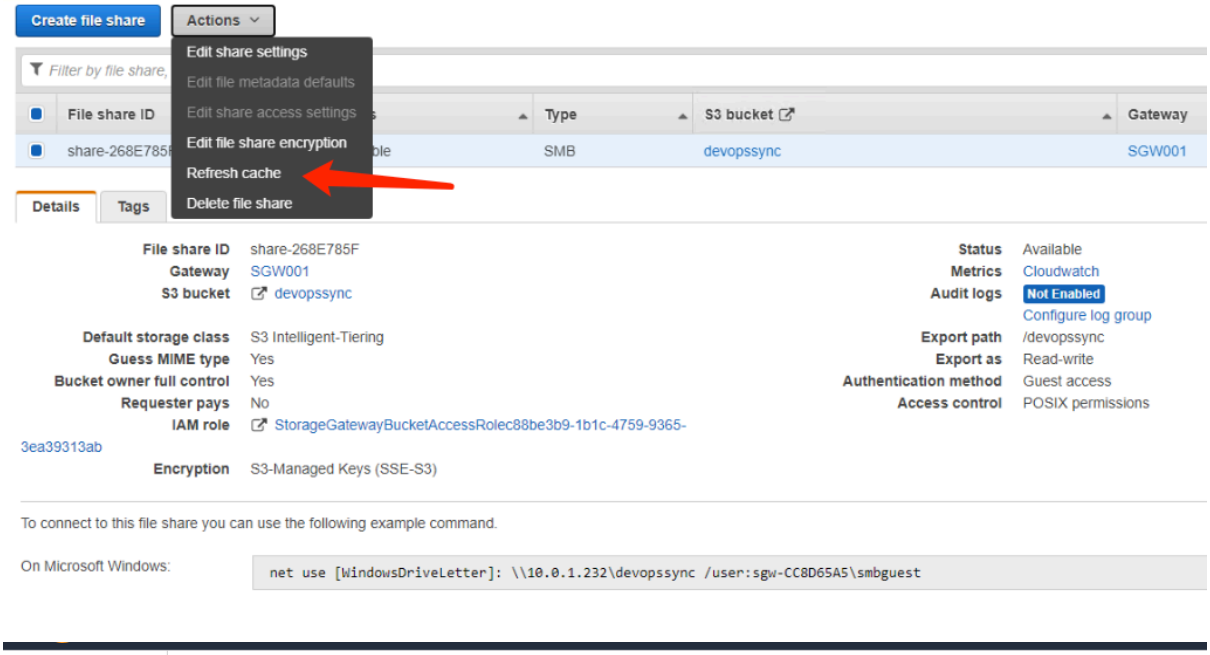
Close

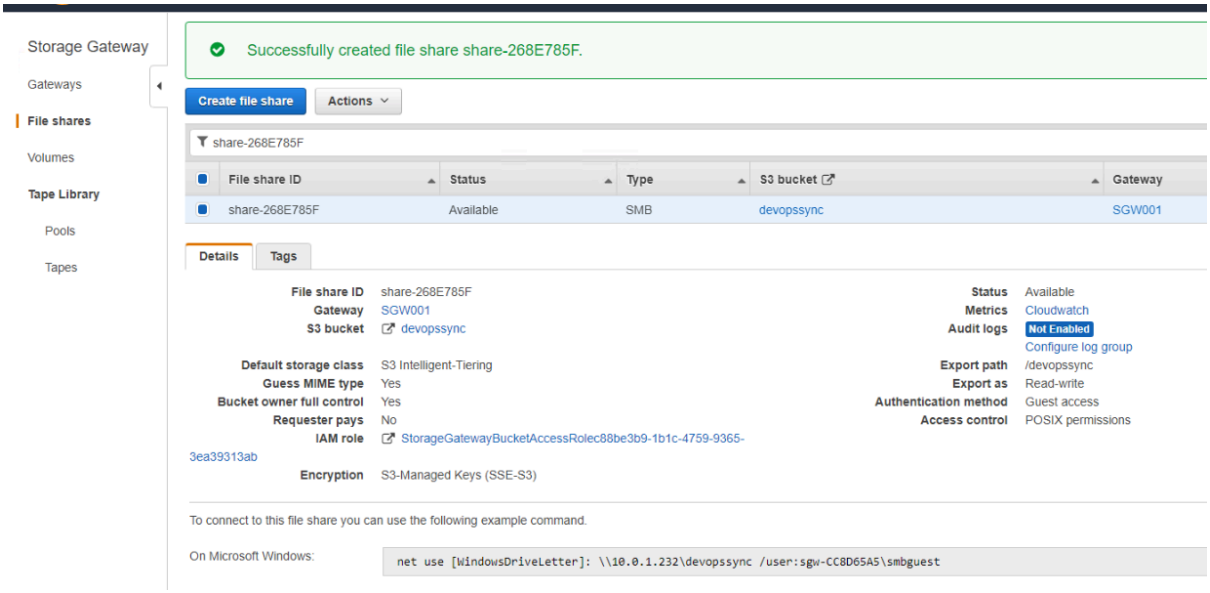
Select authentication method	Guest access
Export as	(•) Read-write ( ) Read-only
File/directory access controlled by	( ) Windows Access Control Lists. Learn more (•) POSIX permissions

Configure how files are stored in Amazon S3

Amazon S3 bucket name	devopssync
Storage class for new objects	S3 Intelligent-Tiering ⚠ Choose Intelligent-Tiering to optimize storage costs by automatically moving data to the most cost-effective storage access tier. Objects stored in the Intelligent-Tiering storage class can incur additional charges for overwriting, deleting, or retrieving. Consider how often these objects change, how long you plan to keep these objects, and how often you need to access them. Objects less than 128 KB are not eligible for autotiering in the Intelligent-Tiering storage class. These objects are stored in Standard. Learn more
Object metadata	☑ Guess MIME type ☑ Give bucket owner full control. Learn more ☐ Enable requester pays
Access to your S3 bucket	(•) Create a new IAM role. Learn more ( ) Use an existing IAM role
Encryption	(•) S3-Managed Keys (SSE-S3) ( ) KMS-Managed Keys (SSE-KMS) Learn more

Cancel | Previous | Next


Create file share
Actions
Edit share settings
Edit file metadata defaults
Edit share access settings
Edit file share encryption
Refresh cache
Delete file share
Filter by file share,
File share ID
Type
S3 bucket
Gateway
share-268E785
SMB
devopssync
SGW001
Details
Tags
File share ID share-268E785F
Gateway SGW001
S3 bucket devopssync
Default storage class S3 Intelligent-Tiering
Guess MIME type Yes
Bucket owner full control Yes
Requester pays No
IAM role StorageGatewayBucketAccessRolec88be3b9-1b1c-4759-9365-3ea39313ab
Encryption S3-Managed Keys (SSE-S3)
Status Available
Metrics Cloudwatch
Audit logs Not Enabled
Configure log group
Export path /devopssync
Export as Read-write
Authentication method Guest access
Access control POSIX permissions
To connect to this file share you can use the following example command.
On Microsoft Windows:
net use [WindowsDriveLetter]: \\10.0.1.232\devopssync /user:sgw-CC8D65A5\smbguest


Storage Gateway
Gateways
File shares
Volumes
Tape Library
Pools
Tapes
Successfully created file share share-268E785F.
Create file share
Actions
share-268E785F
File share ID
Status
Type
S3 bucket
Gateway
share-268E785F
Available
SMB
devopssync
SGW001
Details
Tags
File share ID share-268E785F
Gateway SGW001
S3 bucket devopssync
Default storage class S3 Intelligent-Tiering
Guess MIME type Yes
Bucket owner full control Yes
Requester pays No
IAM role StorageGatewayBucketAccessRolec88be3b9-1b1c-4759-9365-3ea39313ab
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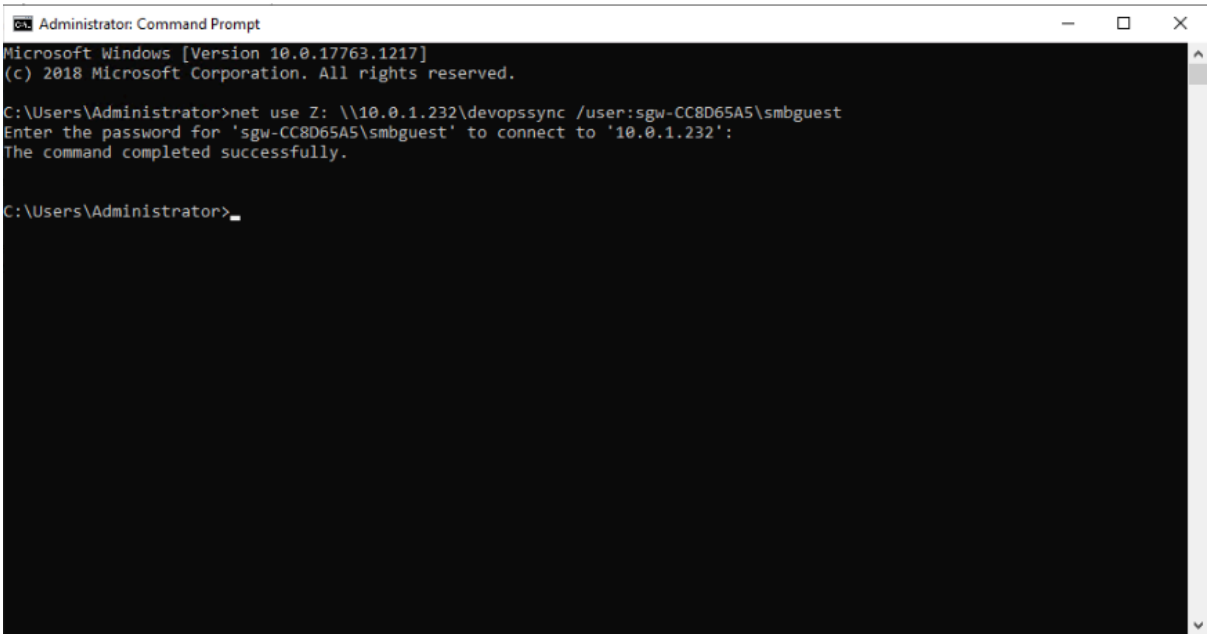
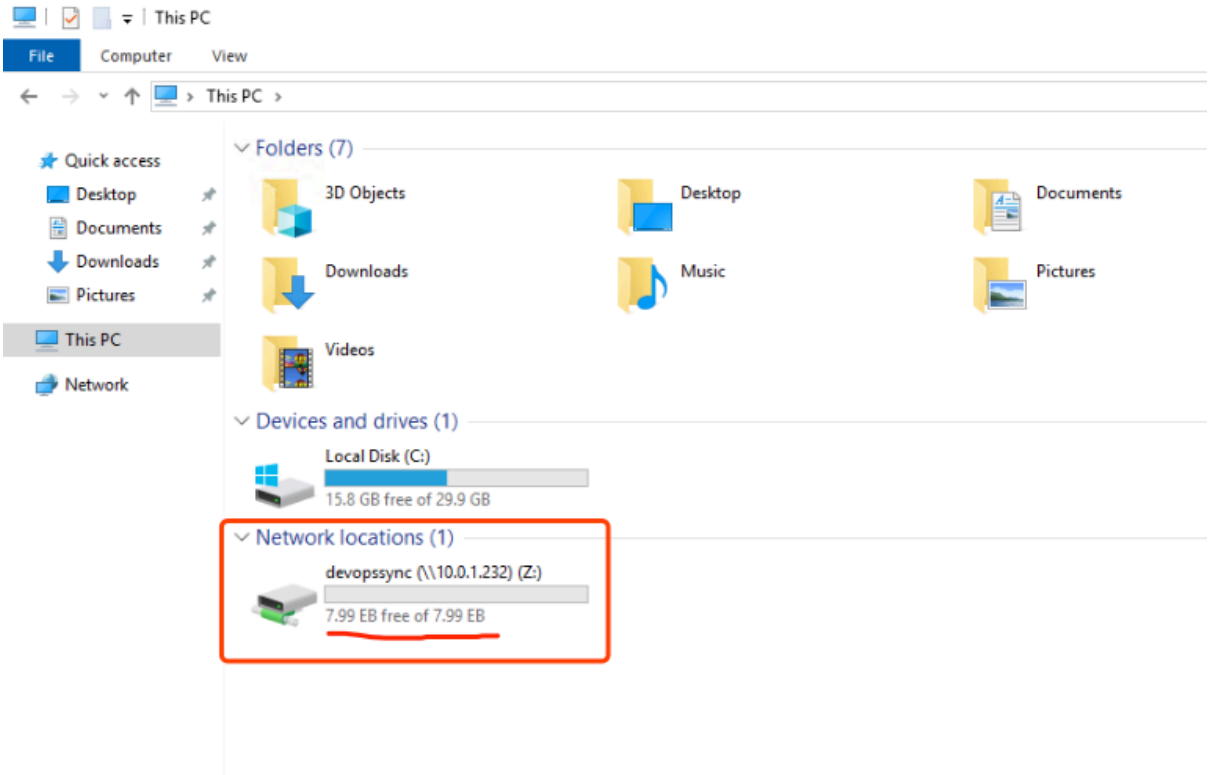
Mount it in windows





Now we have 8EB storage which we can call it unlimited storage.