

Module 14 – Guided Lab: Hybrid Storage and Data Migration with AWS Storage Gateway File Gateway

The screenshot shows a Windows desktop environment with two open browser windows.

The top browser window is the AWS Management Console, specifically the "Create bucket" page under the "Amazon S3 > Buckets" section. It displays the "General configuration" tab, where a bucket name "nwenwebbucket123" has been entered. The "AWS Region" is set to "US East (Ohio) us-east-2". Below this, there's a section for "Copy settings from existing bucket - optional" with a "Choose bucket" button. The "Object Ownership" tab is also visible.

The bottom browser window is a Microsoft Edge browser displaying a lab assignment titled "Module 14 Guided Lab - Hybrid Storage and Data Migration with AWS Storage Gateway File Gateway". The assignment details include a due date of "No Due Date", points of "100", and a status of "Submitting an external tool". It lists several steps:

6. Choose **Create bucket**, then configure these settings:
 - Bucket name: Create a name that you can remember easily. It must be globally unique.
 - Region: US East (Ohio) us-east-2
 - Bucket Versioning: Enable
 - For cross-Region replication, you must enable versioning for both the source and destination buckets.
7. Choose **Create bucket**

On the right side of the Microsoft Edge window, there is a sidebar with sections for "Bucket access", "Bucket Versioning", and "Tags (0) - optional".

The taskbar at the bottom of the screen shows various pinned icons, including Microsoft Word, Excel, and File Explorer, along with the system clock showing 3:40 PM on 11/23/2022.

The screenshot shows a Windows desktop with two browser windows open. The left window is a web-based assignment interface from instructure.com. It displays a module titled "Module 14 Guided Lab - Hybrid Storage and Data Migration with AWS Storage Gateway File Gateway". The assignment has a due date of "No Due Date", 100 points, and is currently "Submitting" via an external tool. A configuration section includes a dropdown menu set to "EN_US" and several checkboxes: "Bucket name", "Region: US West (Oregon) us-west-2", and "Versioning: Enable". Below this is a section titled "Task 3: Enabling cross-Region replication". The right window is the AWS Management Console's "Create bucket" page. It shows the "General configuration" section where a bucket name "nwenwebucket456" is entered, and the AWS Region is set to "US West (Oregon) us-west-2". There is also a "Choose bucket" button. The "Object Ownership" section is partially visible. The status bar at the bottom of the screen shows the date as 11/23/2022, the time as 3:41 PM, and the location as ENG US.

AWS Management Console S3 Management Console (1) NewJeans (뉴진스) 'Cook' +

s3.console.aws.amazon.com/s3/buckets?region=us-west-2

oracle class JLP_Kyat AWS Academy Clou... aws educate aws rampup shebuild schedule VGW SharePoint Teamup AWS Solutions Arch... JP sound Batch3

aws Services Search [Alt+S]

Amazon S3

Buckets Access Points Object Lambda Access Points Multi-Region Access Points Batch Operations Access analyzer for S3

Block Public Access settings for this account

Storage Lens Dashboards AWS Organizations settings

Feature spotlight

AWS Marketplace for S3

Successfully created bucket "nwenwebucket456"
To upload files and folders, or to configure additional bucket settings choose [View details](#).

Amazon S3 > Buckets

Account snapshot
Storage lens provides visibility into storage usage and activity trends. [Learn more](#)

Buckets (2) Info
Buckets are containers for data stored in S3. [Learn more](#)

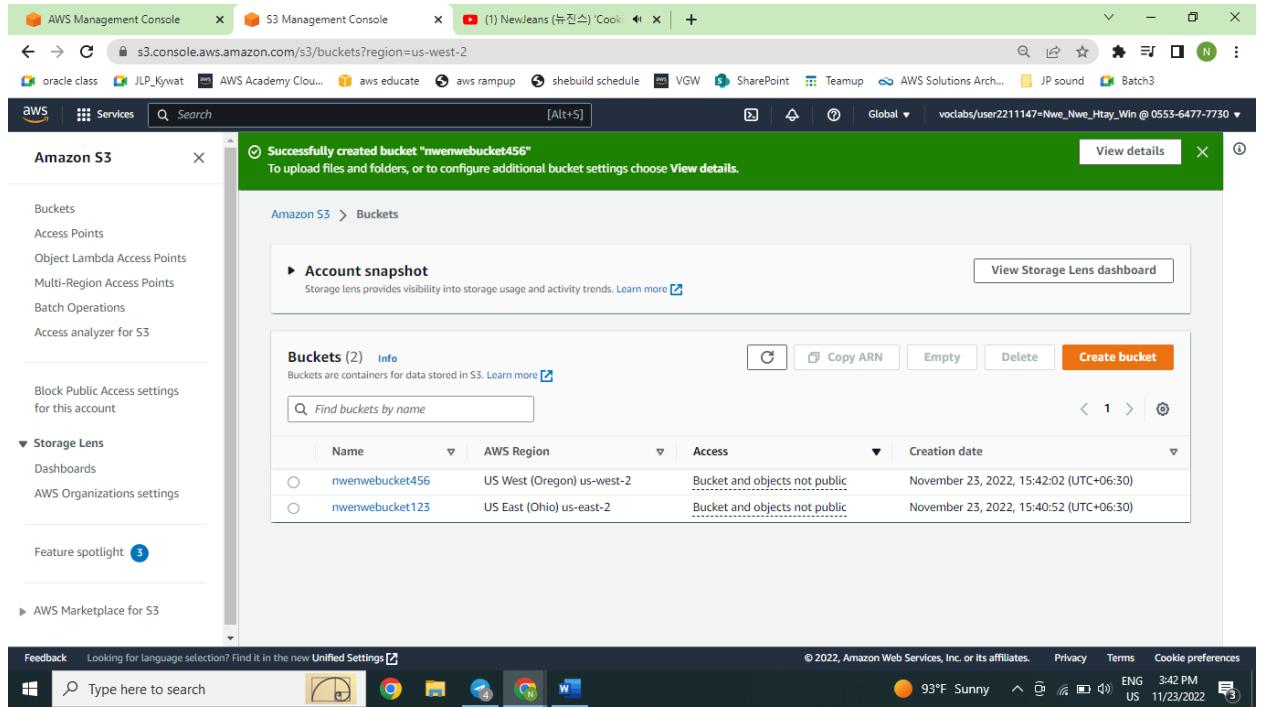
[Create bucket](#)

Name	AWS Region	Access	Creation date
nwenwebucket456	US West (Oregon) us-west-2	Bucket and objects not public	November 23, 2022, 15:42:02 (UTC+06:30)
nwenwebucket123	US East (Ohio) us-east-2	Bucket and objects not public	November 23, 2022, 15:40:52 (UTC+06:30)

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93°F Sunny ENG 3:42 PM US 11/23/2022



The screenshot shows a Windows desktop environment with three browser tabs open:

- AWS Management Console**: Shows the Amazon S3 service page for the bucket "nwenwebucket123". The "Management" tab is selected. Under "Lifecycle rules (0)", there is a table with one row showing "No lifecycle rules". A "Create lifecycle rule" button is present.
- s3.console.aws.amazon.com**: Shows the replication rules configuration for the same bucket. The "Create replication rule" section is visible, with a "Replication rule configuration" sub-section containing fields for "Replication rule name" (set to "crr-full-bucket"), "Status" (set to "Enabled"), and "Priority" (set to 0).
- YouTube**: Playing a video titled "Cook" by NewJeans.

On the left side of the screen, the Windows Start menu is open, showing various pinned apps like AWS Management Console, AWS Lambda, AWS CloudWatch, and AWS CloudFront.

Assignments
Guided Lab - Hybrid Storage and Data Migration with AWS Storage Gateway File Gateway

Module 14 Guided Lab - Hybrid Storage and Data Migration with AWS Storage Gateway File Gateway

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EN_US

11. Configure the Replication rule:

- o Replication rule name: `crr-full-bucket`
- o Status Enabled
- o Source bucket:
 - For Choose a rule scope, select Apply to all objects in the bucket
- o Destination:
 - Choose a bucket in this account
 - Choose [Browse S3](#) and select the bucket you created in the US West (Oregon) Region.
 - Select [Choose path](#)
- IAM role: S3 CRR Rule

S3 Management Configuration

The rule is added to the configuration at the highest priority and the priority can be changed on the replication rules table.

Source bucket

Source bucket name: nwenwebucket123
Source Region: US East (Ohio) us-east-2
Choose a rule scope:
 Limit the scope of this rule using one or more filters
 Apply to all objects in the bucket

Destination

Destination:
You can replicate objects across buckets in different AWS Regions (Cross-Region Replication) or you can replicate objects across buckets in the same AWS Region (Same-Region Replication). You can also specify a different bucket for each rule in the configuration.
Learn more or see Amazon S3 pricing
 Choose a bucket in this account

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Assignments
Guided Lab - Hybrid Storage and Data Migration with AWS Storage Gateway File Gateway

Module 14 Guided Lab - Hybrid Storage and Data Migration with AWS Storage Gateway File Gateway

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EN_US

- For Choose a rule scope, select Apply to all objects in the bucket
- Destination:
 - Choose a bucket in this account
 - Choose and select the bucket you created in the US West (Oregon) Region.
 - Select
 - IAM role: S3-CRR-Role**
 - Note: To find the AWS Identity and Access Management (IAM) role, in the search box, enter: S3-CRR. (This role was pre-created with the required permissions for this lab)

S3 Management Console S3 Management Con... (1) NewJeans (n... AWS Management Con... oracle class JLP_Kyat AWS Academy Clou... AWS educate AWS rampup shebuild schedule VGW

s3.console.aws.amazon.com/s3/management/nwenwebucket1...

Bucket name
Choose the bucket that will receive replicated objects.

Destination Region
US West (Oregon) us-west-2

IAM role

Choose from existing IAM roles
 Enter IAM role ARN
IAM role

Encryption

Replicate objects encrypted with AWS KMS

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AWS Management Console nwenwebucket123 - S3 bucket (1) NewJeans (n... AWS Management Con... oracle class JLP_Kyat AWS Academy Clou... AWS educate AWS rampup shebuild schedule VGW SharePoint Teamup AWS Solutions Arch... JP sound Batch3

s3.console.aws.amazon.com/s3/buckets/nwenwebucket123?region=us-east-2&tab=objects

Amazon S3 Buckets nwenwebucket123

Buckets

- Access Points
- Object Lambda Access Points
- Multi-Region Access Points
- Batch Operations
- Access analyzer for S3

Block Public Access settings for this account

Storage Lens

- Dashboards
- AWS Organizations settings

Feature spotlight

AWS Marketplace for S3

Objects (0)
Objects are the fundamental entities stored in Amazon S3. You can use Amazon S3 inventory [to get a list of all objects in your bucket](#). For others to access your objects, you'll need to explicitly grant them permissions. [Learn more](#)

Show versions

Name	Type	Last modified	Size	Storage class
No objects You don't have any objects in this bucket.				

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The screenshot shows the AWS Management Console with the S3 Management Console tab selected. A file named "Pokemon.csv" is being uploaded to a bucket named "nwenwebucket123". The destination is specified as "s3://nwenwebucket123". The "Destination details" section shows bucket settings for new objects. The "Permissions" section indicates that the file will be replicated across regions.

Add the files and folders you want to upload to S3. To upload a file larger than 160GB, use the AWS CLI, AWS SDK or Amazon S3 REST API. [Learn more](#)

Drag and drop files and folders you want to upload here, or choose Add files, or Add folders.

Files and folders (1 Total, 43.0 KB)
All files and folders in this table will be uploaded.

Name	Type	Size
Pokemon.csv	text/csv	43.0 KB

Destination

Destination
s3://nwenwebucket123

▶ Destination details
Bucket settings that impact new objects stored in the specified destination.

▶ Permissions

Now, upload any file in Ohio region. It will auto replicate at Oregon.

The screenshot shows the AWS Management Console with the Amazon S3 service selected. The "Objects" tab is active, displaying a single object named "Pokemon.csv" in the "nwenwebucket456" bucket. The file was uploaded from the Ohio region and is now replicated in the Oregon region.

Buckets

Access Points

Object Lambda Access Points

Multi-Region Access Points

Batch Operations

Access analyzer for S3

Block Public Access settings for this account

Storage Lens

Dashboards

AWS Organizations settings

Feature spotlight

AWS Marketplace for S3

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AWS Management Console | [us-east-1.console.aws.amazon.com/storagegateway/home?region=us-east-1#](#) | **AWS Storage Gateway** | [\(1\) \[Full Album\] NewJeans](#)

Services [Alt+S] N. Virginia v voclabs/user2211147=Nwe_Nwe_Htay_Win @ 0553-6477-7730

Storage Gateway

Gateways
File shares
FSx file systems
Volumes
Tape Library
Pools
Tapes
Hardware

AWS Storage Gateway

On-premises access to virtually unlimited cloud storage

Seamlessly and securely integrate your on-premises IT environment with AWS storage infrastructure.

Get started in minutes

Create gateway

AWS Storage Gateway is a fast, simple way to get started in the cloud.

Create gateway

Hardware appliance

To use a hardware appliance as a host platform, order an appliance first, then activate it before creating a gateway.

Ordering information

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Assignments

Guided Lab - Hybrid Storage and Data Migration with AWS Storage Gateway File Gateway

Module 14 Guided Lab - Hybrid Storage and Data Migration with AWS Storage Gateway File Gateway

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EN_US

18. At the top-right of the console, verify that the current Region is *N. Virginia*.

19. Choose **Create gateway**, then begin configuring the Step 1: Set up gateway settings:

- Gateway name: *File Gateway*
- Gateway time zone: Choose *GMT -5:00 Eastern Time (US & Canada), Bogota, Lima*
- Gateway type: *Amazon S3 File Gateway*
- Host platform: choose *Amazon EC2*, then choose the **Launch instance** button.

A new tab opens to the EC2 instance launch wizard. This link automatically selects

Set up gateway

How it works

Gateway settings

Gateway name
The name must be between 2 and 255 characters and cannot include a slash (\ or /).

Gateway time zone Choose the local time zone based on where you are deploying your gateway.
GMT -5:00 Eastern Time (US & Canada), Bogota, Lima

Gateway options

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AWS Management Create gateway (1) [Full Album] NewJeans oracle class JLP_Kywat AWS Academy Cloud... aws educate AWS rampup shebuild schedule VGW SharePoint Teamup AWS Solutions Arch... JP sound Batch3

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Gateway options

Gateway type

Amazon S3 File Gateway
Store and access objects in Amazon S3 from NFS or SMB file data with local caching.

Amazon FSx File Gateway
Access fully managed file shares in Amazon FSx for Windows File Server using SMB.

Tape Gateway
Store virtual tapes in Amazon S3 using iSCSI-VTL, and store archived tapes in Amazon S3 Glacier Flexible Retrieval or Amazon S3 Glacier Deep Archive.

Volume Gateway
Store and access iSCSI block storage volumes in Amazon S3.

Platform options

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Services | Search | [Alt+S] | ? | N. Virginia | voclabs/user2211147=Nwe_Nwe_Htay_Win @ 0553-6477-7730

Launch EC2 instance

Standard Amazon EC2 instance pricing applies. [Learn more \[Z\]](#)

Use default settings
The default settings use an instance type of m5.xlarge, 150 GB of cache storage, and minimally-required inbound security ports.

Customize your settings
Customize your settings using the Amazon EC2 launch instance wizard.

Set up gateway on Amazon EC2

Launch instance [\[Z\]](#)

- Choose the **Launch instance** button above. This opens a new tab in the Amazon EC2 console.
- For **Instance type**, we recommend selecting at least **m5.xlarge**.
- For **Network settings**, do the following:
 - For **VPC**, select the VPC that you want your EC2 instance to run in.
 - (Optional) For **Subnet**, specify the subnet that your EC2 instance should be launched in.
 - For **Auto-assign Public IP**, select **Enable**.
 - For **Inbound security group rules**, add firewall rules to allow clients to connect to your instance. Amazon S3 File Gateway requires TCP port 80 to be open for inbound traffic and one-time HTTP access during gateway activation. After activation, you can close this port.
 - If you plan to create NFS file shares, you must open TCP/UDP port 2049 for NFS access, TCP/UDP port

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Type here to search

Module 14 Guided Lab - Hybrid Storage and Data Migration with AWS Storage Gateway File Gateway

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EN_US

Gateway type: Amazon S3 File Gateway

- Host platform: choose Amazon EC2, then choose the **Launch instance** button.

A new tab opens to the EC2 instance launch wizard. This link automatically selects the correct Amazon Machine Image (AMI) that must be used for the File Gateway appliance.

20. In the Launch an instance screen, begin configuring the gateway as described:

- Name: File Gateway Appliance
- AMI from catalog: Accept the default aws-storage-gateway AMI.
- Instance type: Select the t2.xlarge instance type

Note: t2.xlarge is the only instance type that you can select in this lab environment.

Name and tags

Name: File Gateway Appliance

Application and OS Images (Amazon Machine Image)

An AMI is a template that contains the software configuration (operating system, application server, an application) required to launch your instance. Search or Browse for AMIs if you don't see what you are looking for below.

Published	Architectur	Virtualizati	Root device	ENA
2022-09-19T23:58:1	x86_64	hvm	ebs	Enabled
				Yes
				3.000Z

Module 14 Guided Lab - Hybrid Storage and Data Migration with AWS Storage Gateway File Gateway

Due No Due Date Points 100 Submitting an external tool

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EN_US Files README Terminal Source

20. In the Launch an instance screen, begin configuring the gateway as described:

- o Name: File Gateway Appliance
- o AMI from catalog: Accept the default aws-storage-gateway AMI.
- o Instance type: Select the t2.xlarge instance type
Note: t2.xlarge is the only instance type that you can select in this lab environment. If you select any other instance type, it will result in an error message when you attempt to launch the instance.
The t2.xlarge instance type is used only as an example in this lab. For correct appliance sizing when you deploy a Storage Gateway appliance, refer to the [Storage Gateway documentation](#).

Instance type

t2.xlarge
Family: t2 4 vCPU 16 GB Memory
On-Demand Linux pricing: 0.1856 USD per Hour
On-Demand Windows pricing: 0.2266 USD per Hour

Compare instance types

Key pair (login)

You can use a key pair to securely connect to your instance. Ensure that you have access to the selected key pair before you launch the instance.

Key pair name - required

Select Create new key pair

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Module 14 Guided Lab - Hybrid Storage and Data Migration with AWS Storage Gateway File Gateway

Due No Due Date Points 100 Submitting an external tool

Submit Details AWS Start Lab End Lab 2:37 Instructions Grades Actions

EN_US Files README Terminal Source

o AMI from catalog: Accept the default aws-storage-gateway AMI.

o Instance type: Select the t2.xlarge instance type
Note: t2.xlarge is the only instance type that you can select in this lab environment. If you select any other instance type, it will result in an error message when you attempt to launch the instance.
The t2.xlarge instance type is used only as an example in this lab. For correct appliance sizing when you deploy a Storage Gateway appliance, refer to the [Storage Gateway documentation](#).

o Key pair name - required: choose the existing vockey key pair.
Note: This SSH key pair is provided on the Details > Show page for this lab.

Instance type

t2.xlarge
Family: t2 4 vCPU 16 GB Memory
On-Demand Linux pricing: 0.1856 USD per Hour
On-Demand Windows pricing: 0.2266 USD per Hour

Compare instance types

Key pair (login)

You can use a key pair to securely connect to your instance. Ensure that you have access to the selected key pair before you launch the instance.

Key pair name - required

vockey Create new key pair

Network settings

Network Info
vpc-0a84ddf1aa142872d

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Assignments
Guided Lab - Hybrid Storage and Data Migration with AWS Storage Gateway File Gateway

Module 14 Guided Lab - Hybrid Storage and Data Migration with AWS Storage Gateway File Gateway

Due No Due Date Points 100 Submitting an external tool

Submit Details AWS Start Lab End Lab 2:35 Instructions Grades Actions

EN_US

Note: This SSH key pair is provided on the Details > Show page for this lab.

21. Configure the network and security group settings for the gateway.

- o Next to Network settings, choose Edit, then configure:
 - VPC: On-Prem-VPC
 - Subnet: On-Prem-Subnet
 - Auto-assign public IP: Enable
 - Under Firewall (security groups), choose Select an existing security group.
- o For Common security groups:
 - Select the security group with FileGatewayAccess in the name

VPC - required Info
vpc-08d1b0c11878c1dec (On-Prem-VPC)
10.10.0.1/16

Subnet Info
subnet-05bb09ff8e92b34 On-Prem-Subnet
VPC: vpc-08d1b0c11878c1dec Owner: 055364777730 Availability Zone: us-east-1d IP addresses available: 250 CIDR: 10.10.1.0/24

Create new subnet

Auto-assign public IP Info
Enable

Firewall (security groups) Info
A security group is a set of firewall rules that control the traffic for your instance. Add rules to allow specific traffic to reach your instance.

Create security group Select existing security group

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Assignments
Guided Lab - Hybrid Storage and Data Migration with AWS Storage Gateway File Gateway

Module 14 Guided Lab - Hybrid Storage and Data Migration with AWS Storage Gateway File Gateway

Due No Due Date Points 100 Submitting an external tool

Submit Details AWS Start Lab End Lab 2:35 Instructions Grades Actions

EN_US

Note: This SSH key pair is provided on the Details > Show page for this lab.

21. Configure the network and security group settings for the gateway.

- o Next to Network settings, choose Edit, then configure:
 - VPC: On-Prem-VPC
 - Subnet: On-Prem-Subnet
 - Auto-assign public IP: Enable
 - Under Firewall (security groups), choose Select an existing security group.
- o For Common security groups:
 - Select the security group with FileGatewayAccess in the name

Auto-assign public IP Info
Enable

Firewall (security groups) Info
A security group is a set of firewall rules that control the traffic for your instance. Add rules to allow specific traffic to reach your instance.

Create security group Select existing security group

Common security groups Info
Select security groups

c65590a1271578l3175345t1w055364777730-FileGatewayAccess-D14F5QGZ5KAF sg-066aa367aae8241d6
VPC: vpc-08d1b0c11878c1dec

Security groups that you add or remove here will be added to or removed from all your network interfaces.

Advanced network configuration

Configure storage Info

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Assignments

Guided Lab - Hybrid Storage and Data Migration with AWS Storage Gateway File Gateway

Module 14 Guided Lab - Hybrid Storage and Data Migration with AWS Storage Gateway File Gateway

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EN_US group.

- For Common security groups:
 - Select the security group with **FileGatewayAccess** in the name

Note: This security group is configured to allow traffic through ports 80 (HTTP), 443 (HTTPS), 53 (DNS), 123 (NTP), and 2049 (NFS). These ports enable the activation of the File Gateway appliance. They also enable connectivity from the Linux servers that you will create on the File Gateway.

For additional information about the ports used by Storage Gateway, refer to the [Storage Gateway documentation](#).
 - Also select the security group with **OnPremSshAccess** in the name

Note: This security group is configured to allow Secure Shell (SSH) connections on port 22.

Security groups

The selected instance type does not support multiple network cards.

Add network interface

Configure storage

Advanced

1x 80 GiB gp3 Root volume (Not encrypted)

1x 150 GiB gp3 EBS volume (Not encrypted)

Remove

Free tier eligible customers can get up to 30 GB of EBS General Purpose (SSD) or Magnetic storage

Add new volume

Assignments
Guided Lab - Hybrid Storage and Data Migration with AWS Storage Gateway File Gateway

Module 14 Guided Lab - Hybrid Storage and Data Migration with AWS Storage Gateway File Gateway

Due No Due Date Points 100 Submitting an external tool

Submit Details AWS Start Lab End Lab 2:32 Instructions Grades

EN_US

23. Finish creating the gateway.

- In the **Summary** panel on the right, keep the number of instances set to 1, and choose **Launch instance**. A Success message displays.
- Choose **View all instances**. Your **File Gateway Appliance** instance will take a few minutes to initialize.

24. Monitor the status of the deployment and wait for **Status Checks** to complete.
Tip: Choose the refresh button to more quickly learn the status of the instance.

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Summary

Number of instances **Info**
1

2 security groups

Storage (volumes)
2 volume(s) - 230 GiB

Free tier: In your first year includes 750 hours of t2.micro (or t5.micro in the Regions in which t2.micro is unavailable) instance usage on free tier AMIs per month, 30 GiB of EBS storage, 2 million I/Os, 1 GB of snapshots, and 100 GB of bandwidth to the internet.

Cancel **Launch instance**

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oracle class JLP_Kywat AWS Academy Clou... aws educate aws rampup shebuild schedule VG

EC2 > Instances > Launch an instance

Success Successfully initiated launch of instance (i-0696559e0e7fb3645)
Launch log

Next Steps

- Create billing and free tier usage alerts
- Connect to your instance
- Connect an RDS database **New**

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Assignments
Guided Lab - Hybrid Storage and Data Migration with AWS Storage Gateway File Gateway

Module 14 Guided Lab - Hybrid Storage and Data Migration with AWS Storage Gateway File Gateway

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23. Finish creating the gateway.

- In the **Summary** panel on the right, keep the number of instances set to 1, and choose **Launch instance**. A Success message displays.
- Choose **View all instances**. Your **File Gateway Appliance** instance will take a few minutes to initialize.

24. Monitor the status of the deployment and wait for **Status Checks** to complete.
Tip: Choose the refresh button to more quickly learn the status of the instance.

Instances (2) Info

Launch instances

Find instance by attribute or tag (case-sensitive)

Name	Instance ID	Instance state
On-Prem Linu...	i-085a53ddc555d5665	Running
File Gateway A...	i-0696559e0e7fb3645	Pending

Select an instance

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Instances (1/2) Info

Launch instances

Find instance by attribute or tag (case-sensitive)

Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone
On-Prem Linu...	i-085a53ddc555d5665	Running	t2.micro	2/2 checks passed	User: arn:aws:	us-east-1d
File Gateway A...	i-0696559e0e7fb3645	Running	t2.xlarge	Initializing	User: arn:aws:	us-east-1d

Instance: i-0696559e0e7fb3645 (File Gateway Appliance)

Details Security Networking Storage Status checks Monitoring Tags

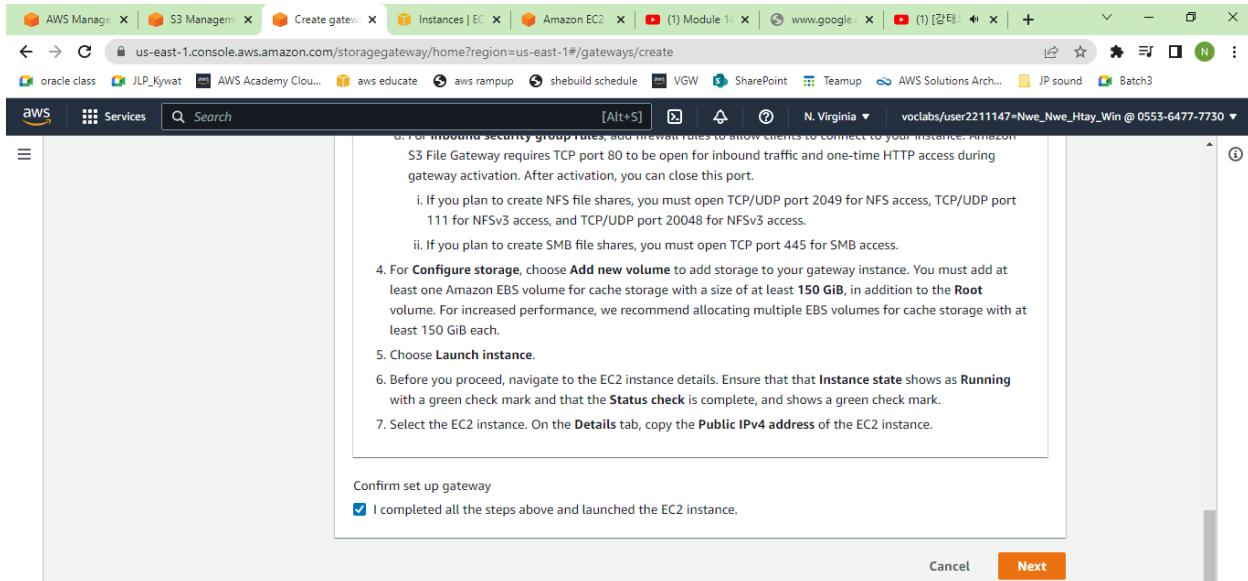
Public IPv4 address copied

Instance ID: i-0696559e0e7fb3645 (File Gateway Appliance)
IPv6 address: -
Hostname type: -

Public IPv4 address: 3.81.163.53 | open address
Private IP4 addresses: 10.10.1.131
Public IPv4 DNS: ec2-3-81-163-53.compute-1.amazonaws.com | open address

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This screenshot shows the 'Create gateway' wizard on the 'Step 2 of 4: Connect to AWS' step. It includes a 'Connect to AWS' section with two options:

- Endpoint options**:
 - Service endpoint**: Choose whether the endpoint is publicly accessible or hosted inside your VPC.
 - Publicly accessible**: Your gateway communicates with AWS over the public internet.
 - VPC hosted**: Accessible within your Virtual Private Cloud (VPC) only. Your gateway communicates with AWS through a private connection with your VPC, allowing you to control your network settings.
 - FIPS enabled**: Select whether the endpoint should comply with Federal Information Processing Standards (FIPS).
 - FIPS enabled endpoint

Assignments
Guided Lab - Hybrid Storage and Data Migration with AWS Storage Gateway File Gateway

Module 14 Guided Lab - Hybrid Storage and Data Migration with AWS Storage Gateway File Gateway

Due No Due Date Points 100 Submitting an external tool

Submit Details AWS Start Lab End Lab 2:28 Instructions Grades

EN_US then choose **Next**

28. Configure the Step 2: Connect to AWS settings:

- For the Service endpoint, select Publicly accessible, and then choose **Next**.
- In the Gateway connection options:
 - For IP address, paste in the IPv4 Public IP address that you copied from your File Gateway Appliance instance
- Choose **Next**

29. In the Step 3: Review and activate settings screen choose **Next**

Gateway connection options

Connection options
You can use the gateway's IP address. If that isn't available, use the activation key.

IP address
Your gateway's IP address must be public or accessible from within your current network. Your web browser must be able to connect to this IP address.

Activation key
Enter the activation key of your gateway's virtual machine (VM).

IP address
To get the IP address, copy the public IP address from your EC2 instance details. Amazon EC2 instance **3.81.163.53**

Cancel Previous **Next**

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Waiting for us-east-1.prod.pr.analytics.console... 93°F Sunny ENG US 11/23/2022

Assignments
Guided Lab - Hybrid Storage and Data Migration with AWS Storage Gateway File Gateway

Module 14 Guided Lab - Hybrid Storage and Data Migration with AWS Storage Gateway File Gateway

Due No Due Date Points 100 Submitting an external tool

Submit Details AWS Start Lab End Lab 2:28 Instructions Grades

EN_US then choose **Next**

28. Configure the Step 2: Connect to AWS settings:

- For the Service endpoint, select Publicly accessible, and then choose **Next**.
- In the Gateway connection options:
 - For IP address, paste in the IPv4 Public IP address that you copied from your File Gateway Appliance instance
- Choose **Next**

29. In the Step 3: Review and activate settings screen choose **Next**

Storage Gateway > Gateways > Create gateway

Step 3 of 4

Review and activate [Info](#)

Step 1: Gateway details [Edit](#)

Gateway options

Gateway name	Gateway time zone
File Gateway	GMT -5:00 Eastern Time (US & Canada), Bogota, Lima
Gateway type	Host platform type
Amazon S3 File Gateway	Amazon EC2
AWS region	
US East (N. Virginia)	

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Assignments
Guided Lab - Hybrid Storage and Data Migration with AWS Storage Gateway File Gateway

**Module 14 Guided Lab - Hybrid Storage and Data Migration
AWS Storage Gateway File Gateway**

Due No Due Date Points 100 Submitting an external tool

Submit Details AWS Start Lab End Lab 2:28 Instructions Grades

EN_US

29. In the Step 3: Review and activate settings screen choose **Next**

30. Configure the Step 4: Configure gateway settings:

- CloudWatch log group: Deactivate logging
- CloudWatch alarms: Deactivated alarm
- Choose **Configure**

A Successfully activated gateway File Gateway Appliance message displays.

In the Configure cache storage panel, you will see that a message the local disks are loading.

Storage Gateway > Gateways > Create gateway

Step 4 of 4

Configure gateway [Info](#)

Configure cache storage [Info](#)

C Loading local disks. This can take a few minutes to load. You need to configure your local disk to move forward.

CloudWatch log group [Info](#)

You can monitor the health of your gateway using Amazon CloudWatch log groups.

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Assignments
Guided Lab - Hybrid Storage and Data Migration with AWS Storage Gateway File Gateway

**Module 14 Guided Lab - Hybrid Storage and Data Migration
AWS Storage Gateway File Gateway**

Due No Due Date Points 100 Submitting an external tool

Submit Details AWS Start Lab End Lab 2:27 Instructions Grades

EN_US

29. In the Step 3: Review and activate settings screen choose **Next**

30. Configure the Step 4: Configure gateway settings:

- CloudWatch log group: Deactivate logging
- CloudWatch alarms: Deactivated alarm
- Choose **Configure**

A Successfully activated gateway File Gateway Appliance message displays.

In the Configure cache storage panel, you will see that a message the local disks are loading.

CloudWatch log group

Choose how to set up log group
You can activate or deactivate logging at any time.

Create a new log group
A new CloudWatch log group will be created.

Use an existing log group
Chooses an existing CloudWatch log group.

Deactivate logging
No CloudWatch log group will be created.

Pricing
Standard Amazon CloudWatch Logs pricing applies based on your usage. [Learn more](#)

CloudWatch alarms [Info](#)

You can add Amazon CloudWatch alarms to be notified when certain gateway metrics fall outside a defined threshold.

CloudWatch alarms

Choose how to set up alarm
Gateway CloudWatch alarms display in the console on the gateway's details page. You can add or remove CloudWatch alarms at any time.

Create Storage Gateway's recommended alarms
Create alarms to monitor file share availability, high IO wait, and cache percent dirty.

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Assignments
Guided Lab - Hybrid Storage and Data Migration with AWS Storage Gateway File Gateway

Module 14 Guided Lab - Hybrid Storage and Data Migration with AWS Storage Gateway File Gateway

Due No Due Date Points 100 Submitting an external tool

CloudWatch alarms Info
You can add Amazon CloudWatch alarms to be notified when certain gateway metrics fall outside a defined threshold.

Choose how to set up alarm
Gateway CloudWatch alarms display in the console on the gateway's details page. You can add or remove CloudWatch alarms at any time.

- Create Storage Gateway's recommended alarms
Create alarms to monitor file share availability, high IO wait, and cache percent dirty.
- Create a custom alarm
Create a custom CloudWatch alarm and view it in the Storage Gateway console.
- No alarm
Don't create an alarm.

Pricing
Standard Amazon CloudWatch alarms pricing applies based on your usage. [Learn more](#)

Tags - optional
No tags associated with the resource.

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Storage Gateway Successfully updated local disks.

Storage Gateway > Gateways

Gateway overview

Gateways (1) Info

Name	Status	Alarm s...	Gateway...	Storage resources
File Gate...	sgw-596D...	Running	None	S3 File 0 file shares

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File share overview

No file shares

You don't have any file shares.

Create file share

File share settings configuration

Gateway

File Gateway (sgw-596D8530)

Amazon S3 location

S3 bucket name Connect directly to your bucket.

S3 access point Connect through a named network endpoint that is attached to your bucket.

S3 access point alias Connect using a bucket-style alias that points to an S3 access point connected to your bucket.

Amazon S3 bucket name: nwenwebucket123

S3 prefix name - optional: /S3 prefix name

Bucket name must be between 3 to 63 characters.

Prefix name must end with a "/".

Versioning-enabled S3 buckets

Use of S3 buckets with versioning enabled can increase the amount of storage used in Amazon S3. Each modification to a file creates a new version of the file.

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Module 14 Guided Lab - Hybrid Storage and Data Migration

AWS Storage Gateway File Gateway

Due No Due Date Points 100 Submitting an external tool

File share name: Info
 Choose the region where the S3 endpoint is located
US East (Ohio) us-east-2

File share name: nwenwebucket123
 File share name must be between 1 to 255 characters.

Private Link for S3 - Optional
 Use VPC endpoint for S3

Access objects using
 Network File System (NFS)
 Server Message Block (SMB)

Audit logs You can monitor your fileshare using Amazon CloudWatch log groups.
 Create a new log group
 A new CloudWatch log group will be created.

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Successfully updated local disks.

Storage Gateway > File shares > Create file share

Step 2 of 4

Amazon S3 storage settings

Amazon S3 storage configuration

Amazon S3 bucket name / Prefix name nwenwebucket123

Storage class for new objects S3 Standard

Object metadata

- Guess MIME type
- Give bucket owner full control
- Enable Requester Pays

IAM role: Paste the *FgwiamPolicyARN*, which you can retrieve by following these instructions –

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Assignments
Guided Lab - Hybrid Storage and Data Migration with AWS Storage Gateway File Gateway

Module 14 Guided Lab - Hybrid Storage and Data Migration with AWS Storage Gateway File Gateway

Due No Due Date Points 100 Submitting an external tool

EN_US

- Storage class for new objects: S3 Standard
- Object metadata:
 - Guess MIME type
 - Give bucket owner full control
 - Enable Requester Pays
- Access your S3 bucket: Use an existing IAM role
- IAM role: Paste the `FgwIamPolicyARN`, which you can retrieve by following these instructions
 - Choose the `Details` dropdown menu above these instructions
 - Select `Show`
 - Copy the `FgwIamPolicyARN` value
 - Choose `Next`

AWS Services

Amazon S3 Bucket name / Prefix name: nwenwebucket123

Storage class for new objects: S3 Standard

Object metadata: [Info](#)

Guess MIME type
 Give bucket owner full control
 Enable requester pays

Access to your S3 bucket: [Info](#)

Create a new IAM role.
 Use an existing IAM role

IAM role: FgwIamPolicyARN

IAM role must be between 20 and 2048 characters.

Encryption: [Info](#)

S3-Managed Keys (SSE-S3)
 KMS-Managed Keys (SSE-KMS)

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Type here to search

Assignments
Guided Lab - Hybrid Storage and Data Migration with AWS Storage Gateway File Gateway

Module 14 Guided Lab - Hybrid Storage and Data Migration with AWS Storage Gateway File Gateway

Due No Due Date Points 100 Submitting an external tool

EN_US

SSH key: Q47y3Y54TScZRMN1TQh0eYEAEnn23XfVArc281Rp
 AWS SSO: Download URL

SecretKey	Q47y3Y54TScZRMN1TQh0eYEAEnn23XfVArc281Rp
RegionCode	us-east-1
FgwIamPolicyARN	arn:aws:iam::055364777730:role/c65590a127157813175 <code>FgwRole-XBQ5W92GIAGH</code>
OnPremLinuxInstance	54.88.220.188
AccessKey	AKIAQZY7704BDDQVHVOC

AWS Services

Object metadata: [Info](#)

Guess MIME type
 Give bucket owner full control
 Enable requester pays

Access to your S3 bucket: [Info](#)

Create a new IAM role.
 Use an existing IAM role

IAM role: `i36477730:role/c65590a127157813175345t1w055364777730-FgwRole-XBQ5W92GIAGH`

IAM role must be between 20 and 2048 characters.

Encryption: [Info](#)

S3-Managed Keys (SSE-S3)
 KMS-Managed Keys (SSE-KMS)

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Instructure Assignment Page (Top Window):

Module 14 Guided Lab - Hybrid Storage and Data Migration with AWS Storage Gateway File Gateway

Due No Due Date Points 100 Submitting an external tool

EN_US

34. In the File access settings screen, accept the default settings.
Note: You might get a warning message that the file share is accessible from anywhere. For this lab, you can safely disregard this warning. In a production environment, you should always create policies that are as restrictive as possible to prevent unwanted or malicious connections to your instances.
Choose **Next**.

35. Scroll to the bottom of the **Review and create** screen, then select **Create**. Monitor the status of the deployment and wait for **Status** to change to **Available**, which takes less than a minute.

AWS Storage Gateway Console (Bottom Window):

Successfully updated local disks.

Storage Gateway > File shares > Create file share Step 3 of 4

File access settings

Access object
Allowed clients is a list of clients that are allowed to access the file gateway.

Note: This file share will accept connections from any NFS clients. Add one or more clients to restrict access.

No clients associated with the resource.

Add client

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Instructure Assignment Page (Bottom Window):

Module 14 Guided Lab - Hybrid Storage and Data Migration with AWS Storage Gateway File Gateway

Due No Due Date Points 100 Submitting an external tool

EN_US

34. In the File access settings screen, accept the default settings.
Note: You might get a warning message that the file share is accessible from anywhere. For this lab, you can safely disregard this warning. In a production environment, you should always create policies that are as restrictive as possible to prevent unwanted or malicious connections to your instances.
Choose **Next**.

35. Scroll to the bottom of the **Review and create** screen, then select **Create**. Monitor the status of the deployment and wait for **Status** to change to **Available**, which takes less than a minute.

AWS Storage Gateway Console (Bottom Window):

Step 4 of 4

Review and create

Step 1: File share settings

File share details	
Gateway	Amazon S3 bucket name / Prefix name nwenwebucket123
File Gateway	
AWS region	File share name us-east-2
Access objects using	Audit logs
NFS	Disable logging
Automated cache refresh from S3	File upload notification
Disabled	Disabled

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Module 14 Guided Lab - Hybrid Storage and Data Migration

AWS Storage Gateway File Gateway

Due No Due Date Points 100 Submitting an external tool

File shares

File share ID: share-58601D33
File share name: nwenwebucket123
Status: Updating
Type: NFS

S3 location: nwenwebucket123
AWS region: us-east-2
Gateway: File Gateway

File share overview

File shares (1) Info

share-58601D33 1 match

File share ID: share-58601D33 File share name: nwenwebucket123

The screenshot shows a Windows desktop environment with several open windows:

- AWS Management Console:** The main window displays the EC2 Instances page for an On-Prem Linux Server (i-085a53ddc555d5665). It provides detailed information about the instance, including its ID, public and private IP addresses, state (Running), and VPC configuration.
- AWS Academy:** A separate window titled "Module 14 Guided Lab - Hybrid Storage and Data Migration with AWS Storage Gateway File Gateway". This lab is due with no points assigned and is marked as an external tool.
- File Explorer:** Shows a file named "labsuser.ppk" in the "Inbox" folder.
- System Taskbar:** Standard Windows taskbar with icons for File Explorer, Task View, Start, and other system utilities.
- System Status Bar:** Shows the date (11/23/2022), time (4:17 PM), and location (US, ENG).

Screenshot of a Windows desktop environment showing multiple browser windows and a PuTTY configuration dialog.

Top Browser Window: AWS Management Console - Instances - i-085a53ddc555d5665

Middle Browser Window: AWS Academy Course - Module 14 Guided Lab - Hybrid Storage and Data Migration with AWS Storage Gateway File Gateway

Bottom Browser Window: www.google.com

PuTTY Configuration Dialog:

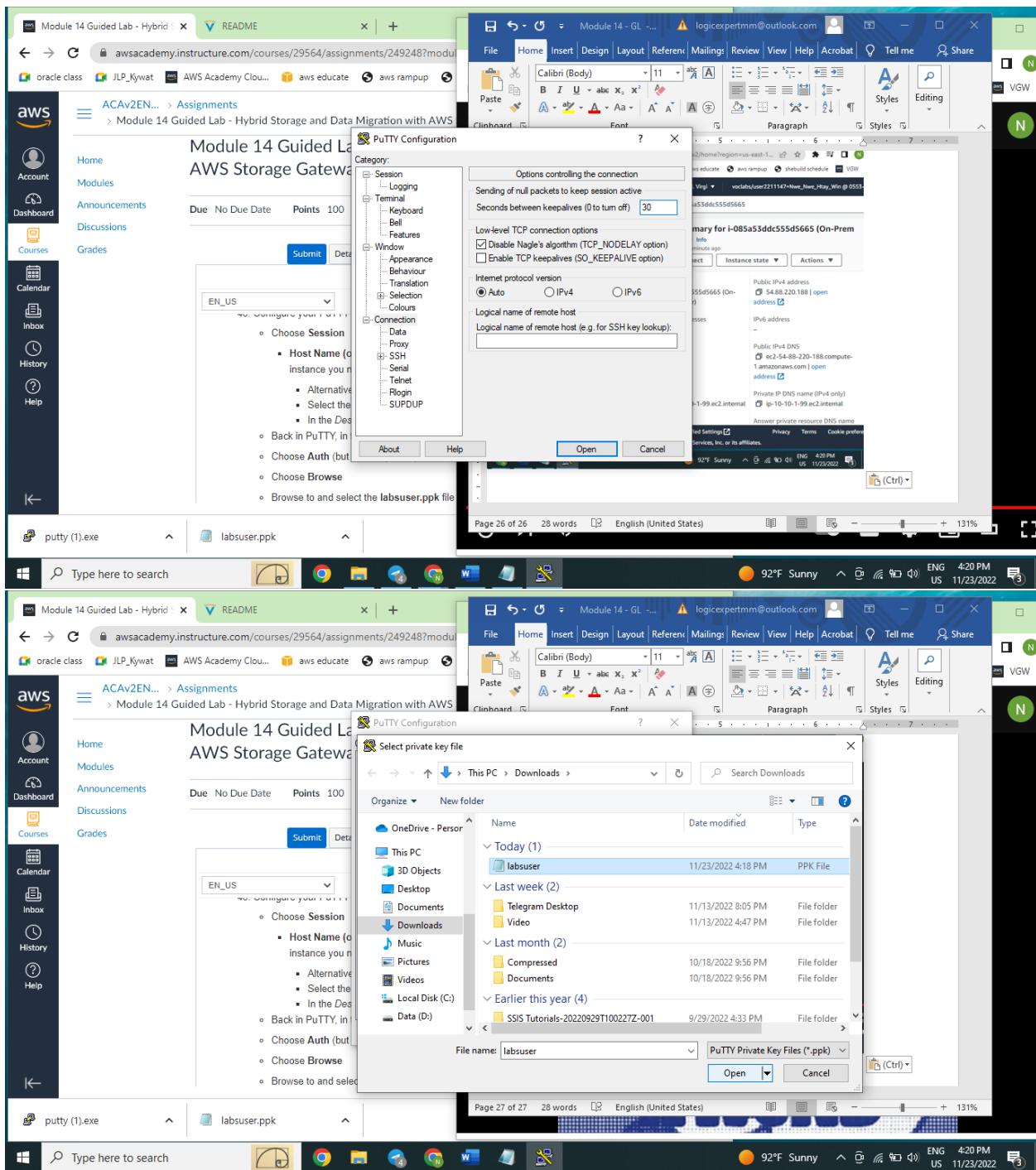
```

PuTTY Configuration

Category: Session
Session
  Logging
  Terminal
    Keyboard
    Bell
    Features
Window
  Appearance
  Behaviour
  Translation
  Selection
  Colours
Connection
  Data
  Proxy
  SSH
  Serial
  Telnet
  Flogin
  SUPDUP

Basic options for your PuTTY session
Specify the destination you want to connect to
Host Name (or IP address) 54.88.220.188
Port 22
Connection type: SSH
Load, save or delete a stored session
Saved Sessions
Default Settings
  Load
  Save
  Delete

Close window on exit:
  Always
  Never
  Only on clean exit
  
```



Module 14 Guided Lab - Hybrid | README

awsacademy.instructure.com/courses/29564/assignments/249248?mod=

oracle class JLP_Kywat AWS Academy Clou... aws educate aws rampup

aws Account Dashboard Courses Calendar Inbox History Help

Academy Assignments

54.88.220.188 - PuTTY

login as: ec2-user
Authenticating with public key "imported-openssh-key"

Home Modules Announcements Discussions Grades

Putty Private Key File (*.ppk)

Open Cancel

Page 27 of 27 28 words English (United States) 92°F Sunny 4:21 PM ENG US 11/23/2022

Page 27 of 27 28 words English (United States) 92°F Sunny 4:21 PM ENG US 11/23/2022

Type here to search

Module 14 Guided Lab - Hybrid | README

labs.vocareum.com/web/2211147/1271578.0/ASNLIB/public/docs/lang/en_us/README.htm...

oracle class JLP_Kywat AWS Academy Clou... aws educate aws rampup

You should now be connected to the instance.

58. On the Linux instance, to view the data that exists on this server, run the command:

```
ls /media/data
```

You should see 20 image files in the .png format.

59. Create the directory that will be used to synchronize data with your S3 bucket by running the command:

```
sudo mkdir -p /mnt/nfs/s3
```

60. Mount the file share on the Linux instance by using the command that you located in the Storage Gateway file shares details screen at the end of the last task.

```
sudo mount -t nfs -o noblock,hard <File-Gateway-appliance-private-IP-address>/<S3-bucket-name> /mnt/nfs/s3
```

putty (1).exe labsuser.ppk

Type here to search

92°F Sunny 4:21 PM ENG US 11/23/2022

The screenshot shows the AWS Management Console with multiple tabs open. The main focus is the 'Instance details' tab for an EC2 instance named 'i-0696559e0e7fb3645'. The instance summary section displays the following details:

Attribute	Value
Instance ID	i-0696559e0e7fb3645 (File Gateway Appliance)
IPv6 address	-
Hostname type	IP name: ip-10-10-1-131.ec2.internal
Answer private resource DNS name	IPv4 (A)
Auto-assigned IP address	3.81.163.53 [Public IP]
Public IPv4 address	3.81.163.53 open address
Private IP4 address	10.10.1.131
Public IP4 DNS	ec2-3-81-163-53.compute-1.amazonaws.com open address
Elastic IP addresses	-
AWS Compute Optimizer finding	User: arn:aws:sts::05536477730:assumed-role/voc labs/user2211147=Nwe_Nwe_Htay_Win is not auth orized to perform: compute-optimizer:GetEnrollme

The 'Public IPv4 address' field (3.81.163.53) is highlighted with a green border. The status bar at the bottom of the browser window shows the command: `sudo mount -t nfs -o noblock,hard 3.81.163.53:/nwenwebucket123 /mnt/nfs/s3`.

```
sudo mount -t nfs -o noblock,hard 3.81.163.53:/nwenwebucket123 /mnt/nfs/s3
```

Module 14 Guided Lab - Hybrid

README

oracle class JLP_Kyat AWS Academy Cloud aws educate aws rampup shebuild schedule

```
sudo mount -t nfs -o noblock,hard <File-Gateway-appliance-private-IP>
bucket-name> /mnt/nfs/s3

Notice that the command starts with sudo and ends with /mnt/nfs/s3.

For example:
```

```
sudo mount -t nfs -o noblock,hard 10.10.1.33:/lab-nfs-bucket /mnt/nfs/s3
```

61. Verify that the share was mounted correctly by entering the following command:

```
df -h
```

The output of the command should be similar to the following example:

```
[ec2-user@ip-10-10-1-210 ~]$ df -h
Filesystem      Size  Used Avail Use% Mounted on
devtmpfs        484M   64K  483M  1% /dev
tmpfs          492M   0    492M  0% /dev/shm
tmpfs          492M  412K  451M  1% /run
tmpfs          492M   0    492M  0% /sys/fs/cgroup
/dev/xvda1       7.8G  1.1G  6.6G 14% /
10.10.1.33:/lab-nfs-bucket 8.0E   0    8.0E  0% /mnt/nfs/s3
```

Putty (1).exe

Type here to search

AWS Manager AWS Gateway - AWS Instance details Amazon EC2 - Se www.google.com (1) Cookie - You

storage gateway

Amazon S3

Buckets

- Access Points
- Object Lambda Access Points
- Multi-Region Access Points
- Batch Operations
- Access analyzer for S3

Block Public Access settings for this account

Storage Lens

- Dashboards
- AWS Organizations settings

Feature spotlight

AWS Marketplace for S3

Feedback Looking for language selection? Find it in the new Unified Settings

Objects (21)

Objects are the fundamental entities stored in Amazon S3. You can use Amazon S3 inventory to get a list of all objects in your bucket. For others to access your objects, you'll need to explicitly grant them permissions. Learn more

Actions ▾ Create folder

Upload

Find objects by prefix Show versions

	Name	Type	Last modified	Size	Storage class
<input type="checkbox"/>	1.png	png	November 23, 2022, 16:26:28 (UTC+06:30)	2.2 KB	Standard
<input type="checkbox"/>	10.png	png	November 23, 2022, 16:26:27 (UTC+06:30)	6.3 KB	Standard
<input type="checkbox"/>	11.png	png	November 23, 2022, 16:26:28 (UTC+06:30)	2.7 KB	Standard
<input type="checkbox"/>	12.png	png	November 23, 2022, 16:26:28 (UTC+06:30)	5.4 KB	Standard
<input type="checkbox"/>	13.png	png	November 23, 2022, 16:26:28 (UTC+06:30)	5.8 KB	Standard
<input type="checkbox"/>	14.png	png	November 23, 2022, 16:26:28 (UTC+06:30)	5.0 KB	Standard
<input type="checkbox"/>	15.png	png	November 23, 2022, 16:26:28 (UTC+06:30)	5.6 KB	Standard
<input type="checkbox"/>	16.png	png	November 23, 2022, 16:26:28 (UTC+06:30)	6.5 KB	Standard
<input type="checkbox"/>	17.png	png	November 23, 2022, 16:26:28 (UTC+06:30)	4.7 KB	Standard
<input type="checkbox"/>	18.png	png	November 23, 2022, 16:26:28 (UTC+06:30)	7.0 KB	Standard
<input type="checkbox"/>	19.png	png	November 23, 2022, 16:26:28 (UTC+06:30)	6.6 KB	Standard
<input type="checkbox"/>	2.png	png	November 23, 2022, 16:26:28 (UTC+06:30)	4.1 KB	Standard

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92°F Sunny ENG US 11/23/2022

Already files in S3 source bucket

Buckets

- Access Points
- Object Lambda Access Points
- Multi-Region Access Points
- Batch Operations
- Access analyzer for S3

Block Public Access settings for this account

Storage Lens

- Dashboards
- AWS Organizations settings

Feature spotlight

AWS Marketplace for S3

Objects (21)

Objects are the fundamental entities stored in Amazon S3. You can use Amazon S3 inventory to get a list of all objects in your bucket. For others to access your objects, you'll need to explicitly grant them permissions. [Learn more](#)

<input type="checkbox"/>	Name	Type	Last modified	Size	Storage class
<input type="checkbox"/>	1.png	png	November 23, 2022, 16:26:28 (UTC+06:30)	2.2 KB	Standard
<input type="checkbox"/>	10.png	png	November 23, 2022, 16:26:27 (UTC+06:30)	6.3 KB	Standard
<input type="checkbox"/>	11.png	png	November 23, 2022, 16:26:28 (UTC+06:30)	2.7 KB	Standard
<input type="checkbox"/>	12.png	png	November 23, 2022, 16:26:28 (UTC+06:30)	5.4 KB	Standard
<input type="checkbox"/>	13.png	png	November 23, 2022, 16:26:28 (UTC+06:30)	5.8 KB	Standard
<input type="checkbox"/>	14.png	png	November 23, 2022, 16:26:28 (UTC+06:30)	5.0 KB	Standard
<input type="checkbox"/>	15.png	png	November 23, 2022, 16:26:28 (UTC+06:30)	5.6 KB	Standard
<input type="checkbox"/>	16.png	png	November 23, 2022, 16:26:28 (UTC+06:30)	6.5 KB	Standard
<input type="checkbox"/>	17.png	png	November 23, 2022, 16:26:28 (UTC+06:30)	4.7 KB	Standard
<input type="checkbox"/>	18.png	png	November 23, 2022, 16:26:28 (UTC+06:30)	7.0 KB	Standard
<input type="checkbox"/>	19.png	png	November 23, 2022, 16:26:28 (UTC+06:30)	6.6 KB	Standard

They are also in Oregon