

Practice 4

Object Oriented Storage

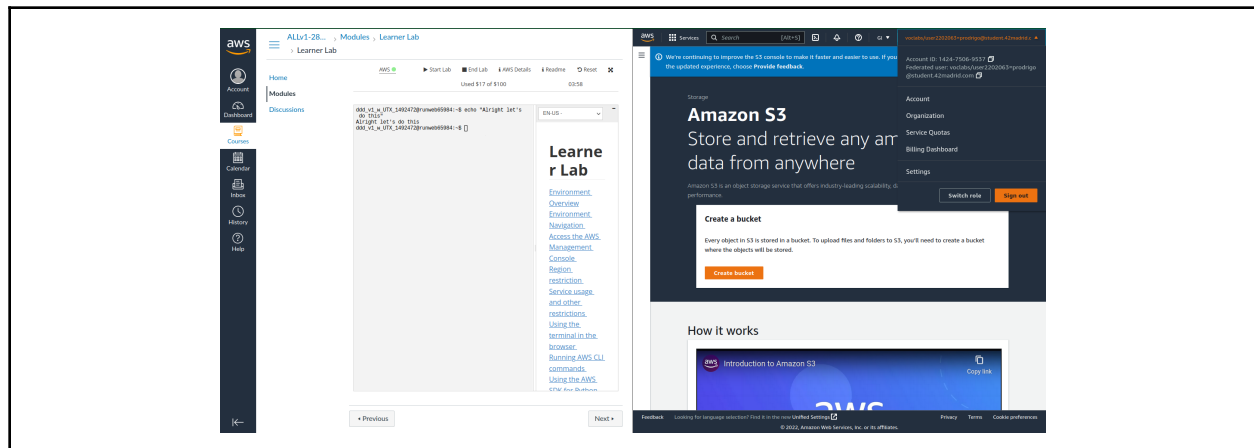


We need to read the AWS CLI documentation to know how to create a S3 Bucket and lifecycling/replicating

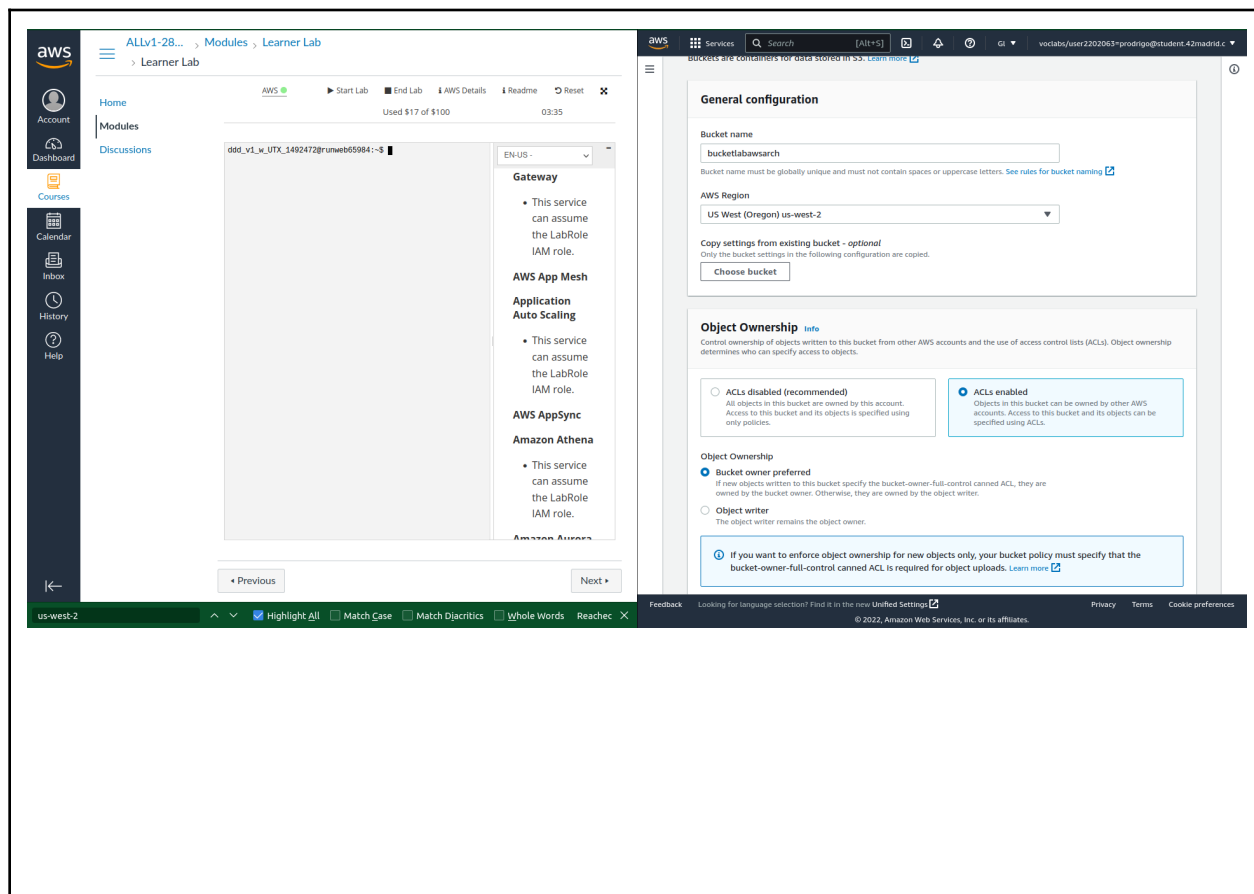
<https://docs.aws.amazon.com/AmazonS3/latest/userguide/creating-buckets-s3.html>

Procedure

We click on Start Lab in order to do so, and we also want to open the AWS Management Console tab (even though we are not really using it in this learner lab) so we can take our required screenshots. An AWS CLI shell will open after some time.



Let's create the S3 bucket, apparently we need to create it in us-west-2 to have permissions.
(Also create one for us-east-1 for the replication with the same settings)



Enable Bucket Versioning

The screenshot shows the AWS IAM console interface. On the left, the navigation menu includes Account, Dashboard, Courses, Calendar, Inbox, History, and Help. The main content area displays the 'Learner Lab' role details, including its permissions and associated services like Gateway, AWS App Mesh, Application Auto Scaling, Amazon API Gateway, Amazon AppSync, and Amazon Athena. On the right, the 'Bucket Versioning' settings for a bucket are shown. The 'Bucket Versioning' section has a radio button for 'Enable' selected. Below it, the 'Tags (0) - optional' section shows no tags associated with the bucket. The 'Default encryption' section has a radio button for 'Server-side encryption' selected. At the bottom, the 'Advanced settings' section is partially visible.

Lifecycles

Replication and move to standard IA after 60 days

The screenshot shows the AWS IAM console interface. On the left, the navigation menu includes Account, Dashboard, Courses, Calendar, Inbox, History, and Help. The main content area displays the 'Learner Lab' role details, including its permissions and associated services like Gateway, AWS App Mesh, Application Auto Scaling, Amazon API Gateway, Amazon AppSync, and Amazon Athena. On the right, the 'Edit replication rule' configuration for a bucket is shown. The 'Replication rule configuration' section includes fields for 'Replication rule name' (set to 'Replicate all items'), 'Status' (set to 'Enabled'), and 'Priority' (set to '0'). The 'Source bucket' section shows the 'Source bucket name' as 'bucketlabawsarch' and the 'Source Region' as 'US West (Oregon) us-west-2'. The 'Choose a rule scope' section has a radio button for 'Apply to all objects in the bucket' selected.

aws

ALLv1-28... > Modules > Learner Lab > Learner Lab

Account

Dashboard

Courses

Calendar

Inbox

History

Help

Home

Modules

Discussions

AWS

Start Lab

End Lab

AWS Details

Readme

Reset

Used \$17 of \$100

02:27

ddd_v1_w_UTX_1492472@runweb65984;-S

EN-US

as documented. Services restrictions are subject to change.

Amazon API Gateway

- This service can assume the LabRole IAM role.

AWS App Mesh Application Auto Scaling

- This service can assume the LabRole IAM role.

AWS AppSync

Previous

Next

IAM

Highlight All

Match Case

Match Diacritics

Whole Words

Destination

Destination

Choose a bucket in this account

Bucket name

bucketlabaws-replica

Destination Region

US East (N. Virginia) us-east-1

IAM role

Choose from existing IAM roles

IAM role

LabRole

View

Encryption

Replicate objects encrypted with AWS KMS

Replication might increase the number of KMS requests you will make in the source and destination AWS

Move to Standard IA after 60 days

aws

ALLv1-28... > Modules > Learner Lab > Learner Lab

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Used \$17 of \$100

02:26

ddd_v1_w_UTX_1492472@runweb65984;-S

EN-US

Service usage and other restrictions

The following services can be used. Specific limitations apply as documented. Services restrictions are subject to change.

Amazon API Gateway

- This service

Previous

Next

IAM

Highlight All

Match Case

Match Diacritics

Whole Words

Move current versions of objects between storage classes

Transition current versions of objects between storage classes

Choose storage class transitions

Standard-IA

Days after object creation

60

Remove

Add transition

Review transition and expiration actions

Current version actions

Day 0

Objects uploaded

Day 60

Objects move to Standard-IA

Noncurrent versions actions

Day 0

No actions defined.

Cancel

Create rule

Delete items after 365 days

The image displays two screenshots of the AWS console, illustrating the steps to configure a lifecycle rule for deleting objects after 365 days.

Top Screenshot: Edit lifecycle rule

- Lifecycle rule configuration:**
 - Lifecycle rule name:** 365 days
 - Choose a rule scope:** ☒ Apply to all objects in the bucket
 - Apply to all objects in the bucket:** ☒ I acknowledge that this rule will apply to all objects in the bucket.
- Lifecycle rule actions:**
 - ☒ Expire current versions of objects
 - ☐ Move current versions of objects between storage classes
 - ☐ Move noncurrent versions of objects between storage classes
 - ☐ Permanently delete noncurrent versions of objects
 - ☐ Delete expired object delete markers or incomplete multipart uploads

Bottom Screenshot: Review transition and expiration actions

- Expire current versions of objects:** Days after object creation: 365
- Review transition and expiration actions:**
 - Current version actions:**
 - Day 0: Objects uploaded
 - Day 365: Objects expire
 - Noncurrent versions actions:** Day 0: No actions defined.

Whenever we have finished, press End Lab to end the laboratory.