**ACTIVITY\_02(lab-02)**

Sure, let's go through the steps to replace the aws s3 cp command with aws s3 sync in the update-website.sh file and test its efficiency:

**Access the Amazon Linux EC2 instance:**

Connect to the Amazon Linux EC2 instance using SSH as instructed in the activity.

Navigate to the home directory:

**bash**

**Copy code**

**cd ~**

Open the update-website.sh file in a text editor:

**bash**

**Copy code**

**vi update-website.sh**

Update the contents of the file:

Press A to enter edit mode.

**Replace the aws s3 cp command with the aws s3 sync command.**

The updated content should look like this:

**bash**

**Copy code**

**#!/bin/bash**

**aws s3 sync ~/sysops-activity-files/ s3://<my-bucket>/ --acl public-read**

**Replace <my-bucket> with your actual bucket name.**

Save the changes and exit the text editor by pressing ESC, typing :wq, and pressing ENTER.

Make the file executable:

**bash**

**Copy code**

**chmod +x update-website.sh**

Make a small change to the index.html file:

Open the index.html file in a text editor:

**bash**

**Copy code**

**vi sysops-activity-files/index.html**

Locate the HTML code that needs to be modified (e.g., change background colors).

Save the changes and exit the text editor.

Run the updated batch file:

**bash**

**Copy code**

**./update-website.sh**

Verify the efficiency:

Check the command line output to see if the sync operation completes more efficiently compared to the copy operation.

You should observe that only the modified files are synced to the S3 bucket instead of all files, resulting in a more efficient update process.

By following these steps, you can replace the aws s3 cp command with aws s3 sync in your update-website.sh file and test its efficiency.

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Sure, here are the steps to complete the optional challenge:

Open the update-website.sh file in a text editor:

**vi update-website.sh**

Replace the aws s3 cp command with the aws s3 sync command:

**#!/bin/bash aws s3 sync ~/sysops-activity-files/ s3://your-bucket-name/ --acl public-read**

Save the changes and exit the file by pressing **ESC, typing :wq** and then pressing ENTER.

Make a small change to the **index.html file**, such as modifying one of the colors.

Save the changes.

Run the updated batch file to upload only the changed files to Amazon S3:

**./update-website.sh**

Verify that only the changed files were uploaded by checking the output of the aws s3 sync command.

**Refresh the Mom & Pop Café page to see the changes to the website.**

Congratulations, you have made your batch file more efficient by using the aws s3 sync command!

Note: Replace your-bucket-name with the actual name of your S3 bucket.