



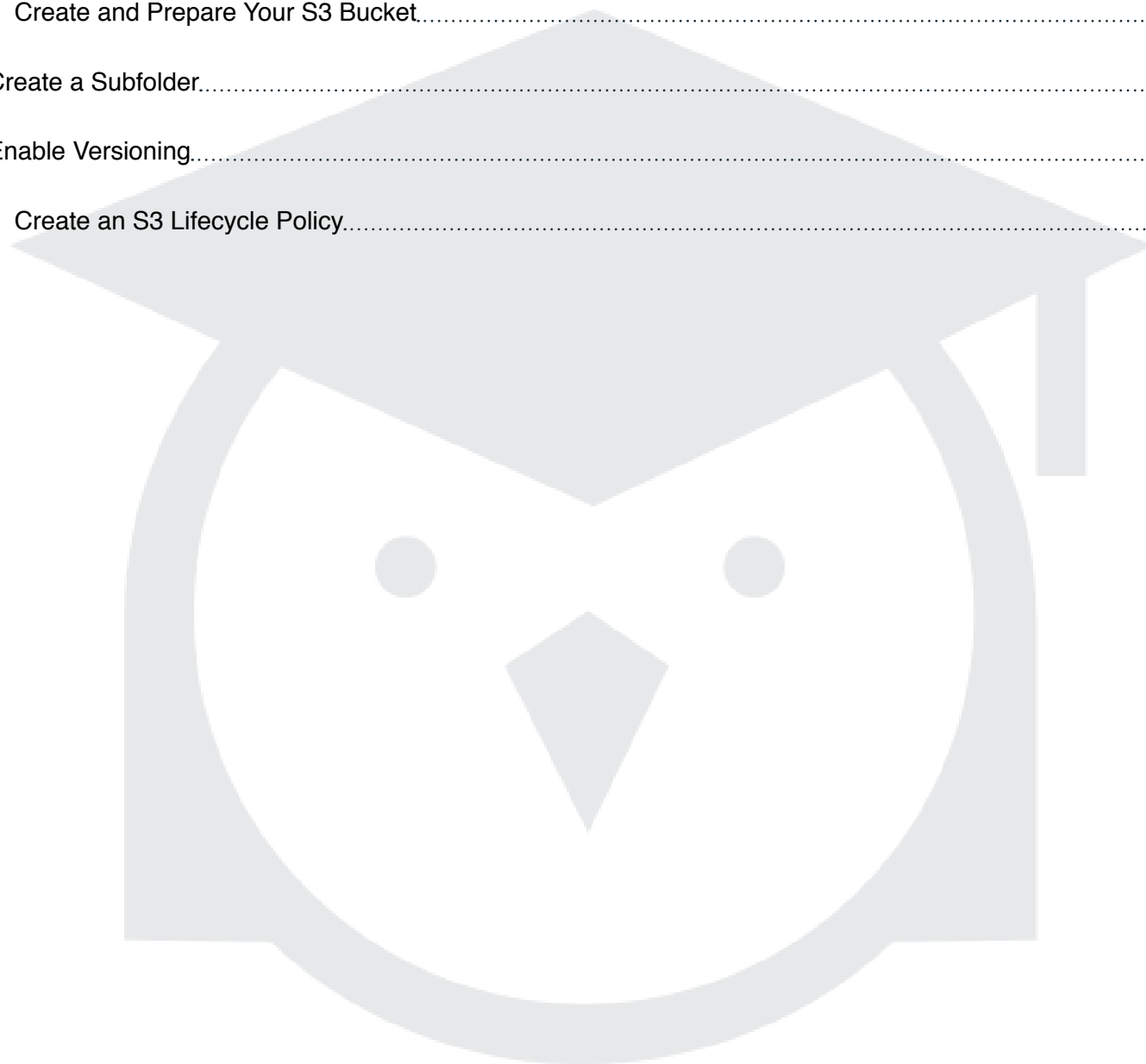
Linux Academy

Hands-On Training

S3 Essentials: Lifecycle Policies

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Introduction

In this lab, we will apply concepts discussed in the **Amazon S3** (Simple Storage Solution) section of the **AWS Certified Solutions Architect - Associate Level** course. This lab will briefly cover uploading objects, and then walk you through the concept of lifecycle policies.

LiveLab Login

From the LiveLab page, select **Start Lab** — it may take up to five minutes to generate your lab host. You will then be provided with a login link, username, and password. Log in with the given credentials, through the provided link.

Create and Prepare Your S3 Bucket

From the **AWS Console**, click the **S3** link under **Storage & Content Delivery**. From here, select **Create Bucket**. Bucket names must be unique to the S3 namespace, and no two buckets can share a name. Your bucket region should be set to **US Standard**. Select **Create**.

The screenshot shows the AWS Management Console interface. In the left-hand navigation pane, the 'Storage & Content Delivery' section is expanded, and the 'S3' service is highlighted with a red box. The main content area displays various AWS services categorized into Compute, Developer Tools, Internet of Things, Mobile Services, Management Tools, and Application Services. On the right, there are links for 'Create a Group', 'Tag Editor', and 'Additional Resources'. Below the service list, a modal window titled 'All Buckets (34)' is open, showing a list of existing buckets. Overlaid on this is the 'Create Bucket' wizard. The wizard includes a text box for 'Bucket Name' containing 'yourbucketname' and a dropdown menu for 'Region' set to 'US Standard'. A red box highlights these two fields. At the bottom of the wizard, there are three buttons: 'Set Up Logging >', 'Create' (highlighted with a red box), and 'Cancel'. A text box at the top of the wizard explains that a bucket is a container for objects stored in Amazon S3 and provides a link to the Amazon S3 documentation.

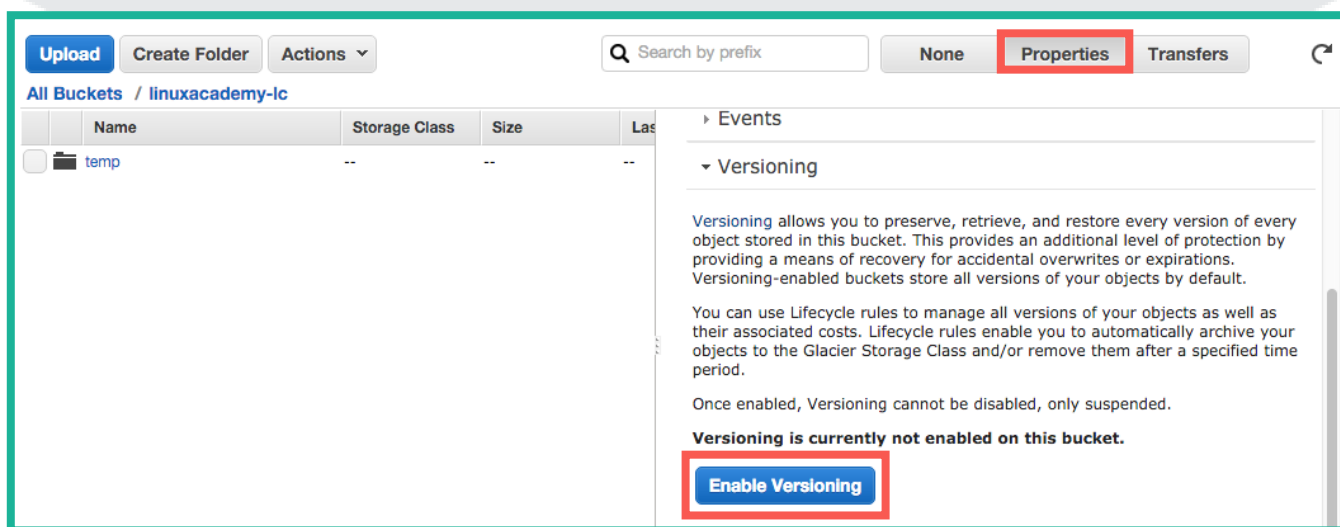
Create a Subfolder

We can apply a lifecycle policy to a subfolder inside of a bucket. To do this, we must first create a folder. This can be done with the **Create Folder** button on the top of the console. We are naming our folder *temp*.

The policy we will set up for this subfolder will archive all objects the same day they are created, and set those items to expire. Because we will be using versioning with this lab, we will also create an additional policy to clean up previous versions of a file.

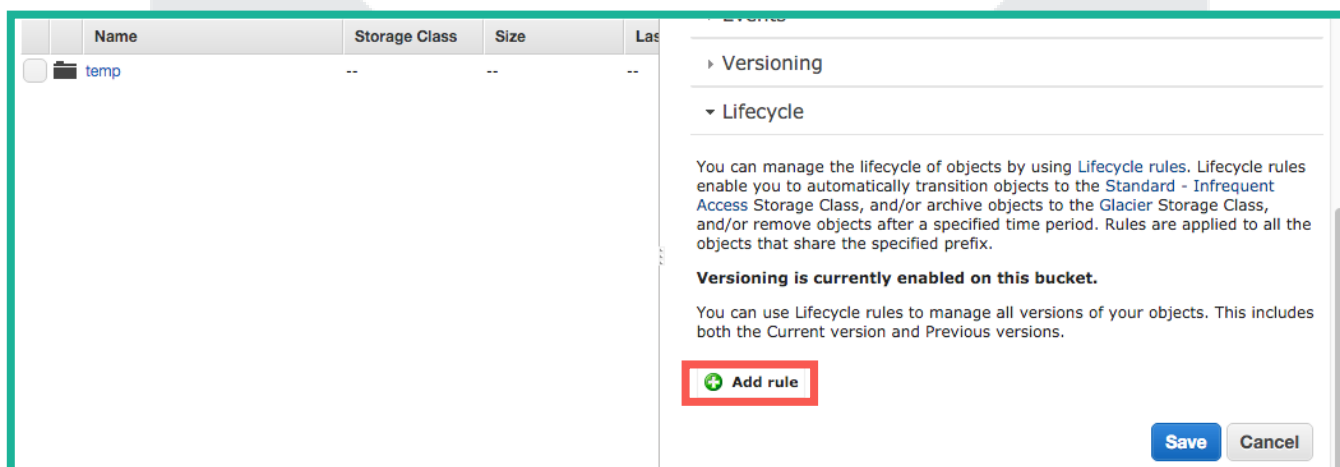
Enable Versioning

Ensure you are in your bucket for this lesson. Select **Properties** to the upper right, and then **Versioning** from the menu that appears. From here you can select **Enable Versioning**. You will receive a pop-up asking if you are sure you want to allow versioning. Click **OK**.



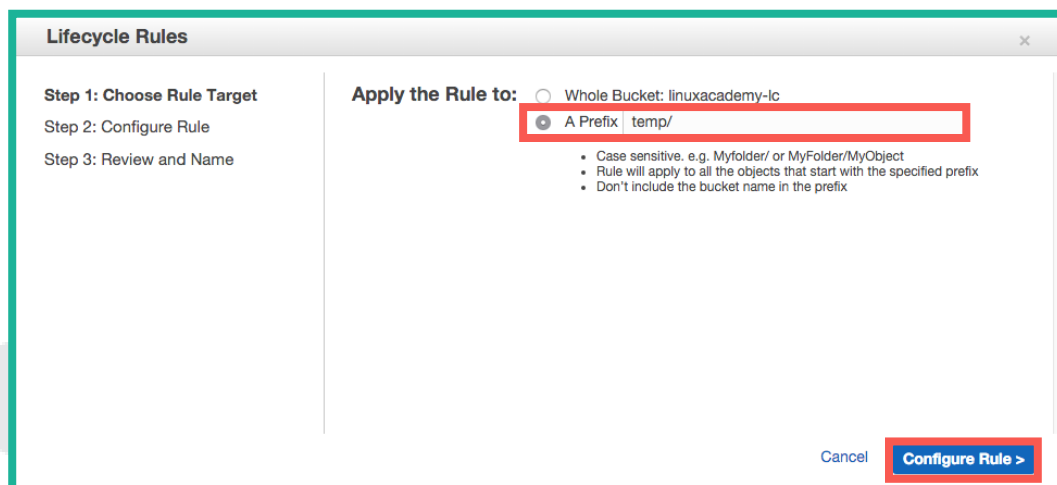
Create an S3 Lifecycle Policy

From the same **Properties** panel as above, select **Lifecycle**, then click on **Add rule**.



We will now begin the process of adding a rule: First, select the **A Prefix** radio button, and enter `temp/` as the prefix.

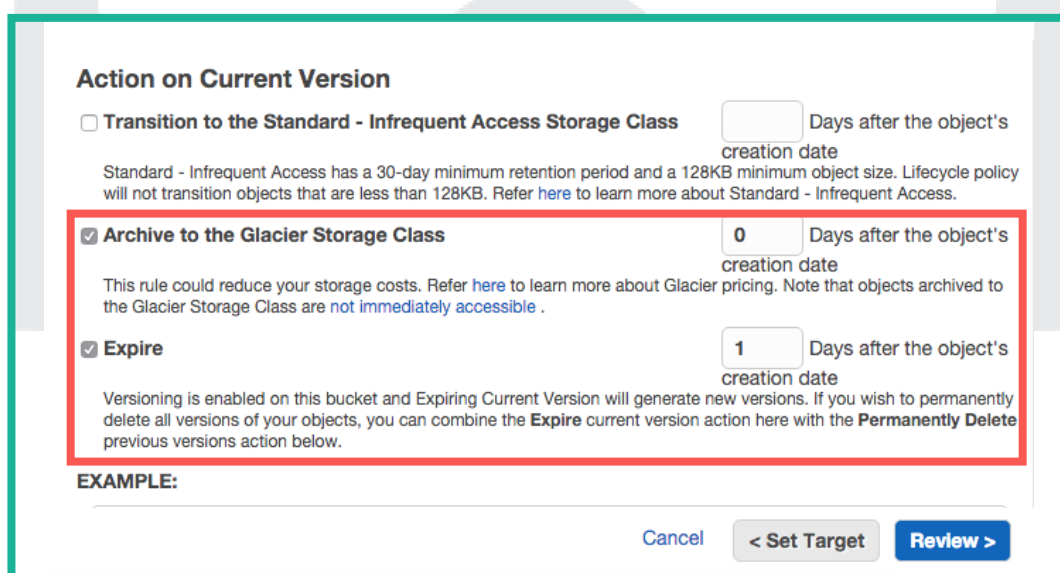
Select **Configure Rule >**.



Under **Action on Current Version**, check **Archive to the Glacier Storage Class** and **Expire**. We want our objects to be archived *0 Days after the object's creation date*, and to expire *1 Days after the object's creation date*.

NOTE

It can take between four to twelve hours to check into a Glacier object; this time will not pass during the time you have to work on this lab. We ensure this is the correct process of setting up lifecycle policies, however.



We now need to set what to do with previous versions. In your console, scroll down to **Action on Previous Versions**.

Because we have versioning enabled in this bucket alongside an **Expire** lifecycle policy, new versions of

an object will be generated as they expire. Since we would like to delete previous versions, we need to select **Permanently Delete from the Action** to the **Previous Versions** section. Set the number of days to **1**.

Click **Review >**.

Name your rule (we called ours *Archive-Then-Expire*) then save. The rule is now ready to go!

NOTE

Glacier Storage Class is intended for data meant to be stored for over 90 days. Before continuing you will need to confirm via the checkbox that you are aware you will have to “pay” for a full 90 days of service, regardless of the permanently delete time. Because this is a hands-on lab, you will not incur these charges. So check the box, and don’t worry!

