How to enable versioning Amazon S3

**Lab Details:**

1. This lab walks you through to the steps how to Enables Versioning to a AWS S3 Bucket. Versioning enables you to keep multiple versions of an object in one bucket. In this lab we learn how to enable object versioning on a S3 bucket.
2. Duration: 00:30:00 Hrs
3. AWS Region: US East (N. Virginia)

**Tasks:**

1. Login to AWS Management Console.
2. Create a S3 bucket.
3. Enable object versioning on bucket.
4. Upload an text file to S3 Bucket.
5. Test object versioning with update text file and upload.

**Steps:**

1. Launch your lab environment by clicking on **Start Lab** button.
2. Once your lab environment is created successfully your **Console Login** button will be active, Now click on **Console Login** button, this will open your **AWS Console** Account for this lab in a new tab.
3. Navigate to S3 by clicking on the “services” menu in the top,then click on “S3” (in the “Storage” section).
4. **Create Bucket :**
   1. On the S3 dashboard click on **+ Create bucket** button and fill the bucket details.
   2. **Bucket name :**Enter a bucket name.
   3. **Region :**Select US East (N. Virginia)
   4. No need to change anything just click on **Create** button.
5. **Enable Versioning :**
   1. Go to bucket list and click on your bucket name.
   2. Click On **Properties** tab.
   3. Choose **Versioning**
   4. Choose **Enable versioning** and then choose Save.
6. Once you see your bucket name the list , click on it.
7. You will see this message "This bucket is empty. Upload new objects to get started", Now we are uploading an object into our bucket.
8. **Upload Object :**
   1. Download the text file from below Download Me link to upload into the bucket you created.  
      [Download Me](https://play.whizlabs.com/site/download_file2?file=sample.txt)
   2. Click on **upload** button.
   3. Click on **Add files** button.
   4. Browse the text file **sample.txt** which you downloaded previously.
   5. Click on **Upload** button.
   6. You can watch the progress of the upload from within the Transfer panel at the bottom of the screen. Since this is a very small file, you might not see the transfer. Once your file has been uploaded, it will be displayed in the bucket.
9. **Make Bucket Public with Bucket Policy :**
   1. In the previous step, you granted read access only to a specific object. If you wish to grant access to an entire bucket, you should need to create a **bucket policy**
   2. Go to bucket list and click on your bucket name.
   3. click the **Permissions** tab, then configure:
      1. In the **Permissions** tab, click on **Bucket Policy**
      2. A blank **Bucket policy editor** is displayed.
      3. Before creating the policy, you will need to copy the ARN (Amazon Resource Name) of your bucket.
      4. Copy the **ARN** of your bucket to the clipboard. It is displayed at the top of the policy editor its look like "ARN: arn:aws:s3:::your-bucket-name"
      5. In below policy update your bucket ARN in Resource key value and copy the policy code.
      6. {
      7. "Id": "Policy1",
      8. "Version": "2012-10-17",
      9. "Statement": [
      10. {
      11. "Sid": "Stmt1",
      12. "Action": [
      13. "s3:GetObject"
      14. ],
      15. "Effect": "Allow",
      16. "Resource": "replace-this-string-from-your-bucket-arn/\*",
      17. "Principal": "\*"
      18. }
      19. ]
      20. }

* 1. Paste the bucket policy into the **Bucket policy editor**.
  2. Click on **save**

1. Now open the text file link into browser you can see the text in file "This is version 1"
2. **Upload text file version 2 :**
   1. Update the text of your sample.txt file.
   2. Click on **upload** button.
   3. Click on **Add files** button.
   4. Browse the **sample.txt** file which you downloaded previously.
   5. Click on **Upload** button.
   6. Once the file uploaded successfully, copy the image link and open in to the browser.
   7. You can see the latest version 2 of sample.txt file which you uploaded.
   8. **Now testing the old version:** For enable the old version of file we need to delete the latest version of file.
   9. Click on file name and you can see the details of file.
   10. On top section just next to the object name you can find a drop down of all version of your object called **Latest version**
   11. Click on **Latest version** drop down and delete the latest version of samle.txt
   12. Now refresh you S3 object URL you can see the older version of your sample.txt which you uploaded first time.
3. You have successfully completed the lab.
4. Once you completed the steps click on End Lab from your whizlabs dashboard.