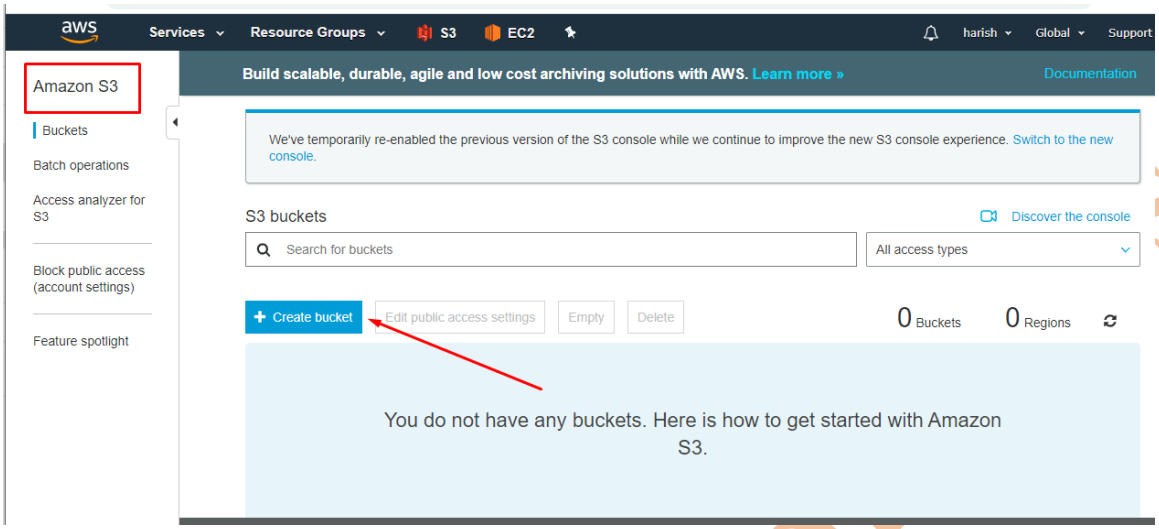
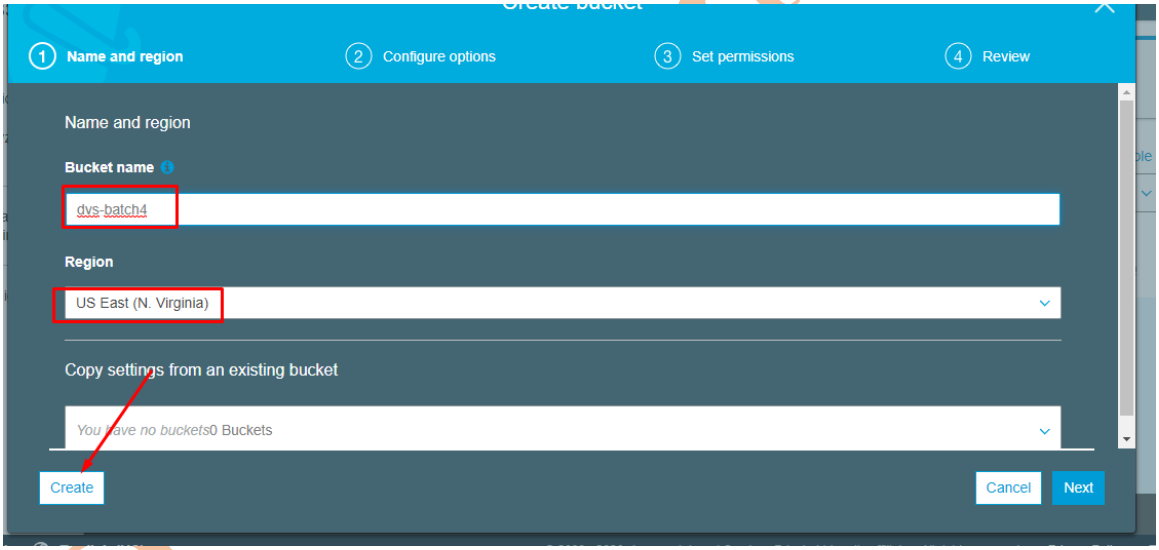
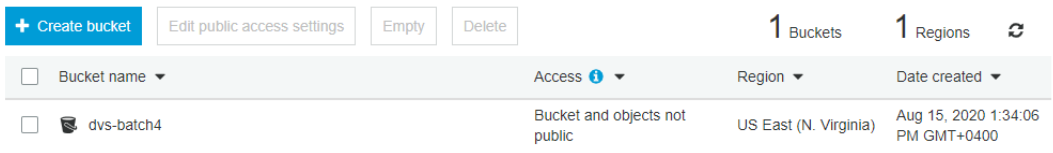
DVS Technologies Aws & Devops

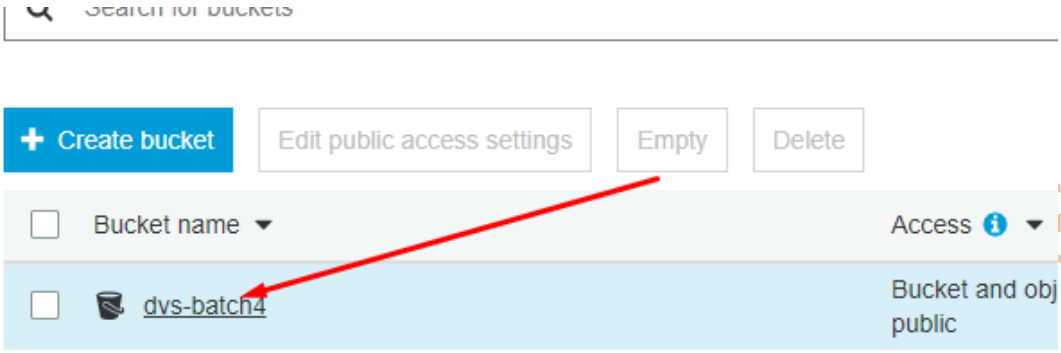
1. Working with S3 Bucket

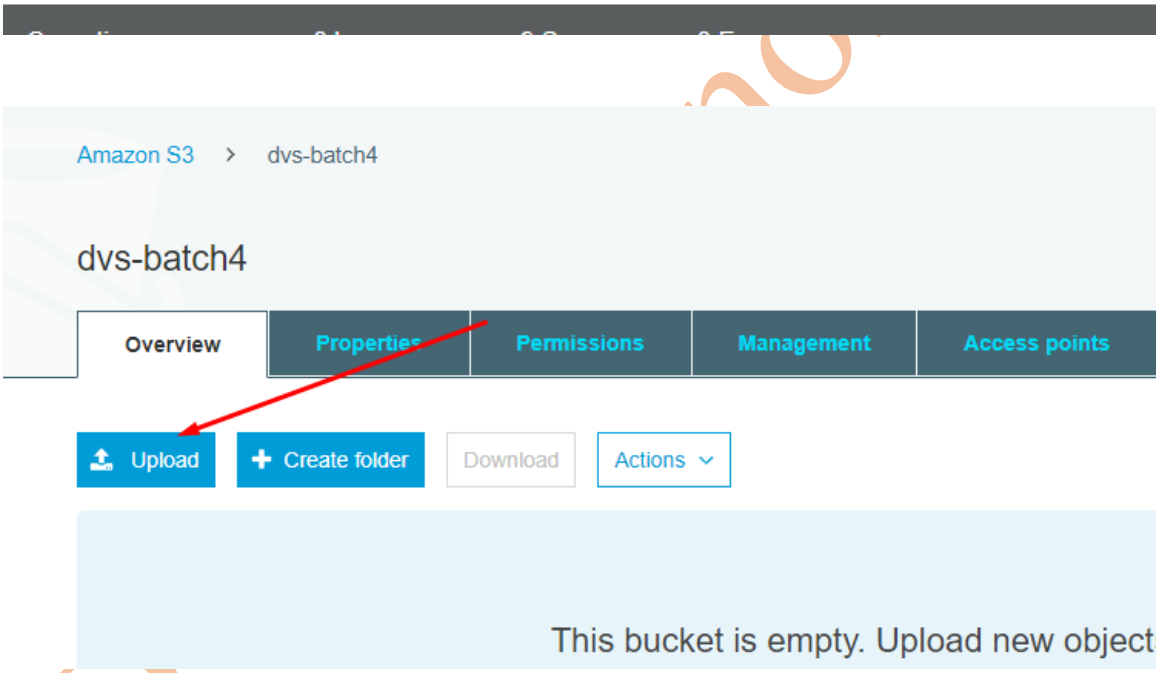


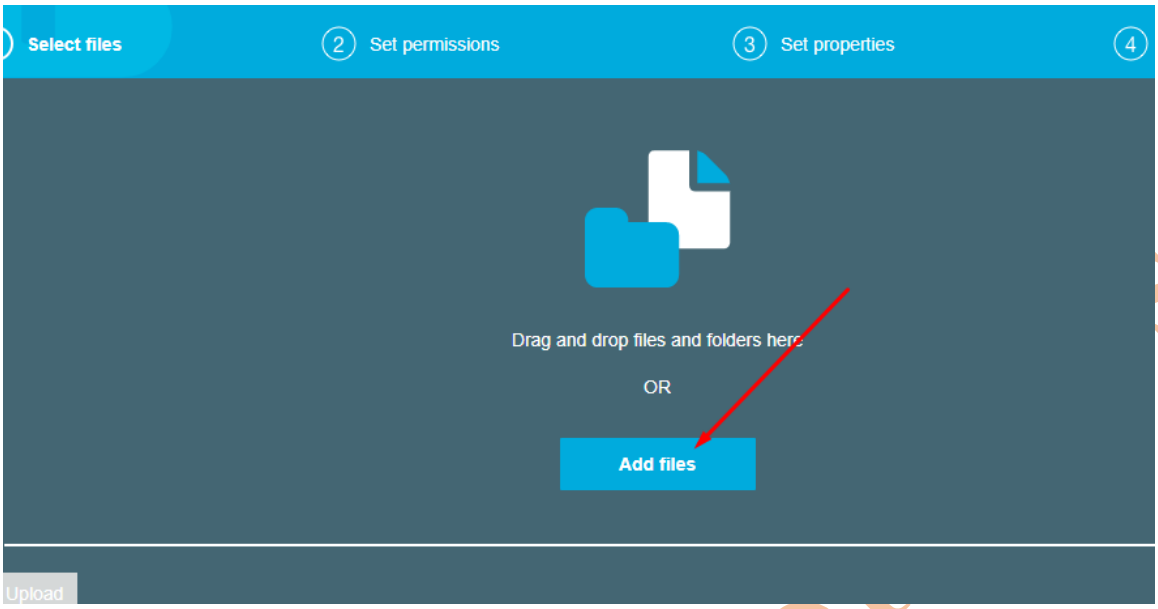


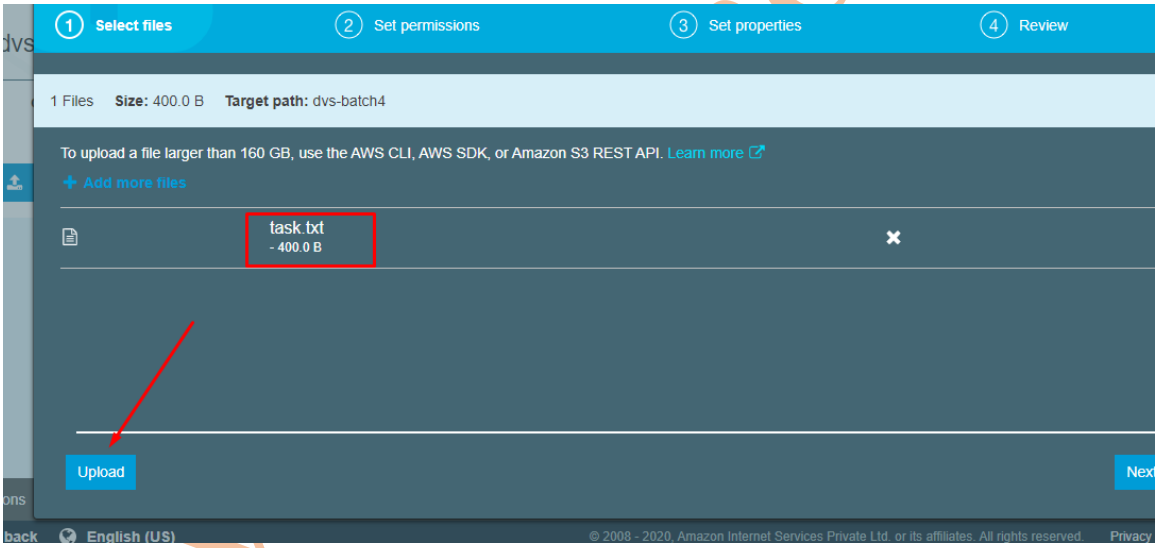


Let's try to load some data









Accessing a file content:

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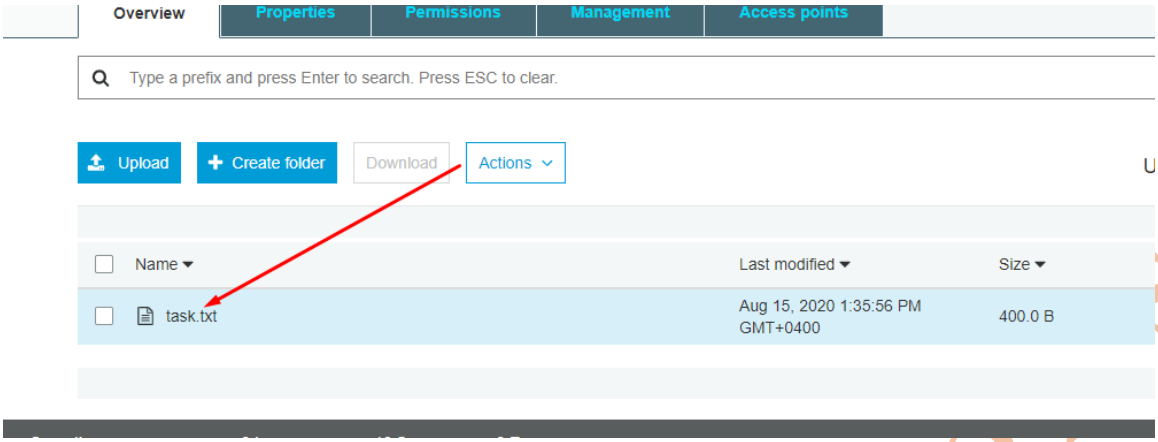
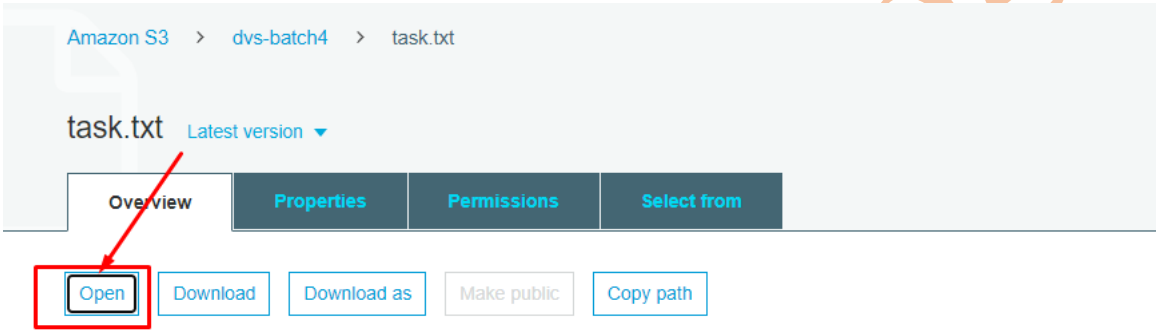
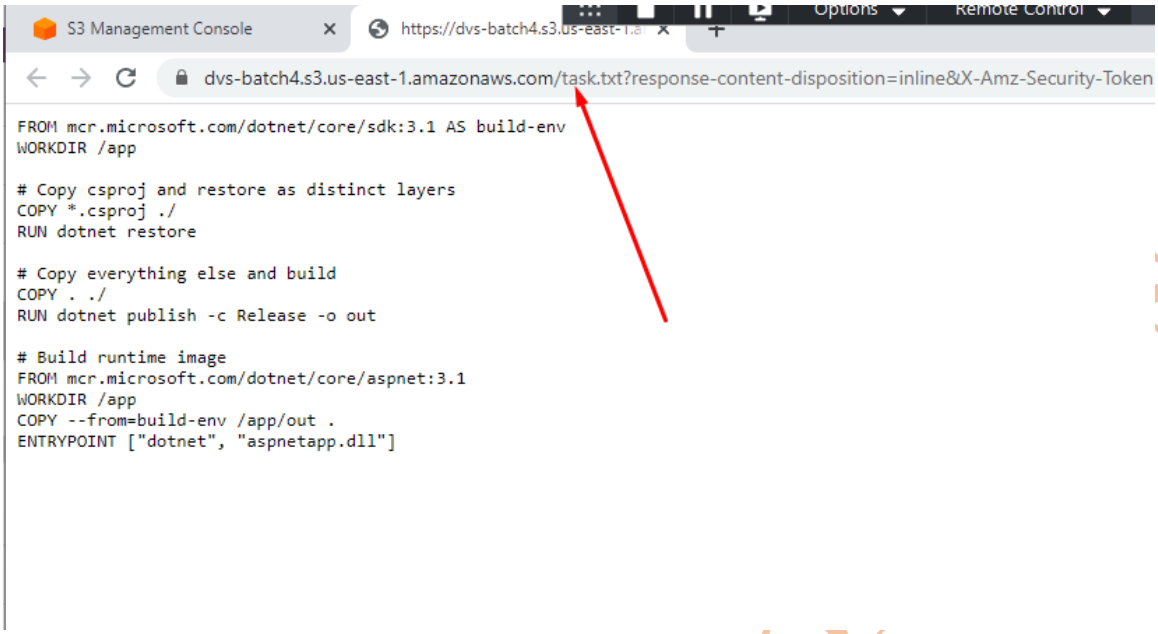
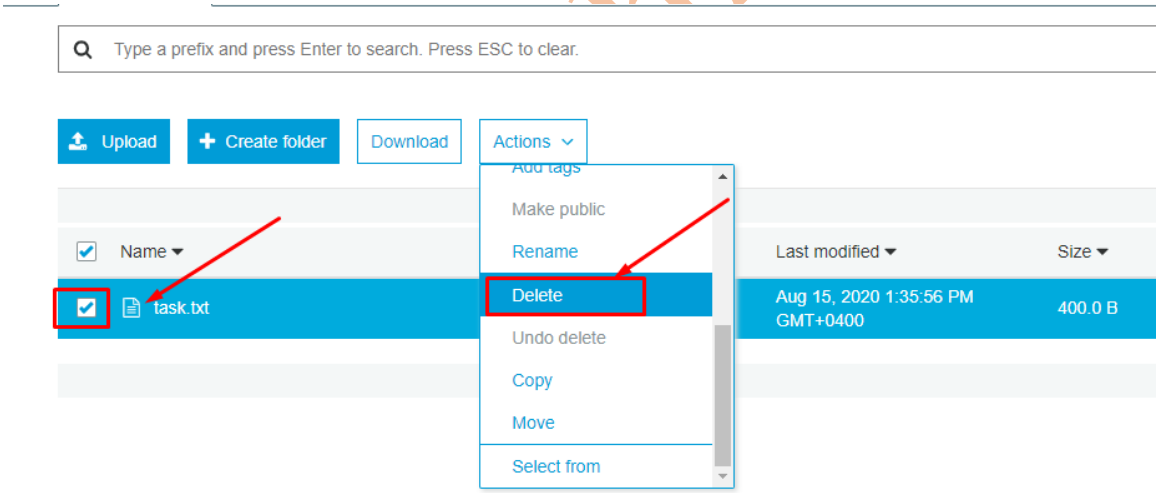
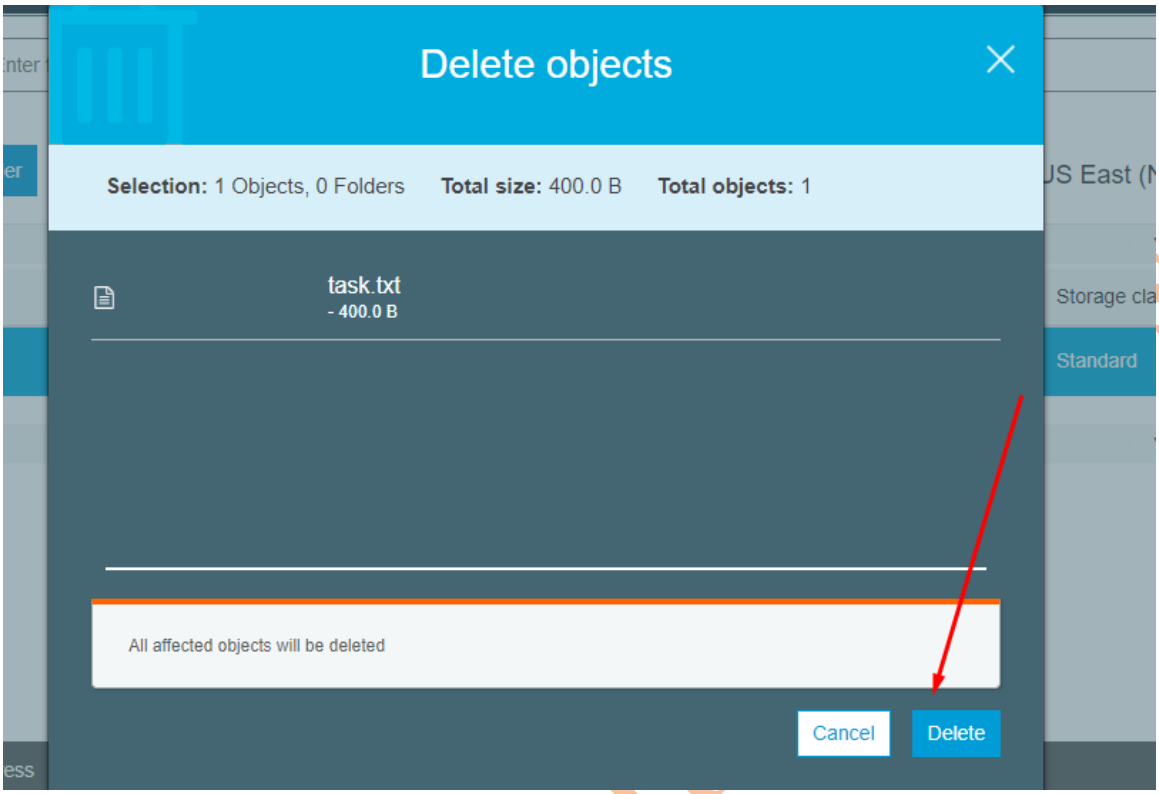




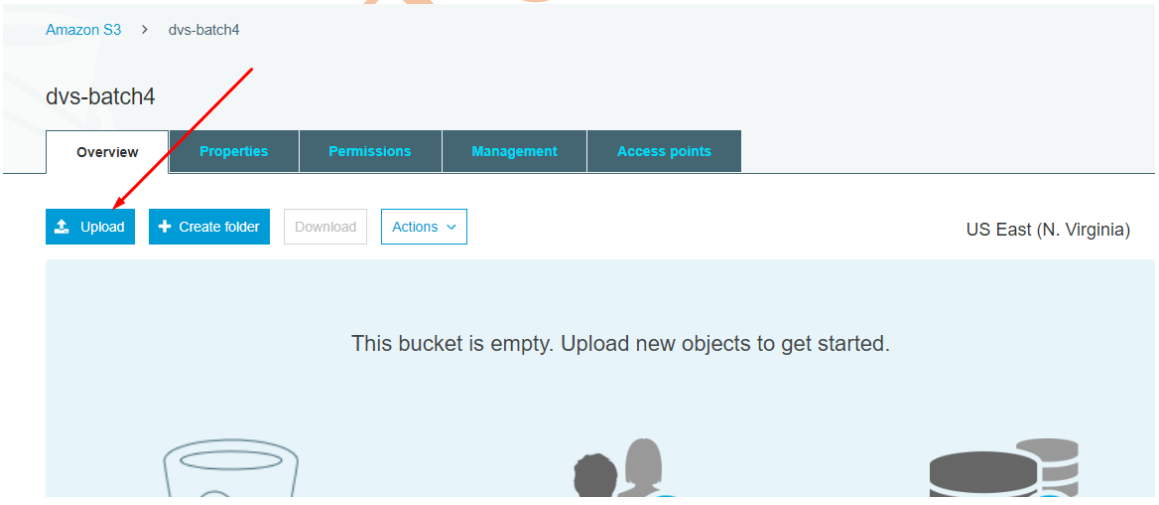


Delete the content from S3 bucket:





Uploading & verifying the data storage:



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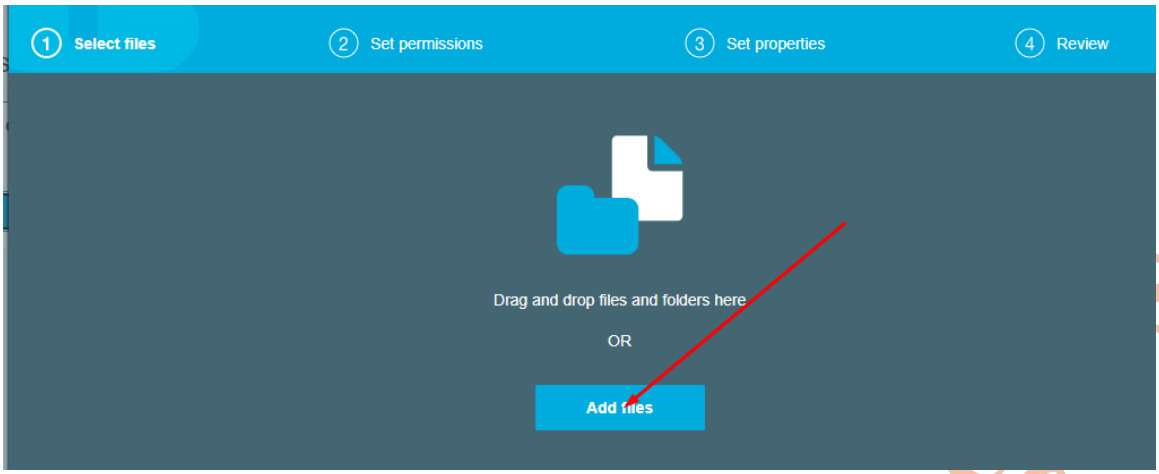
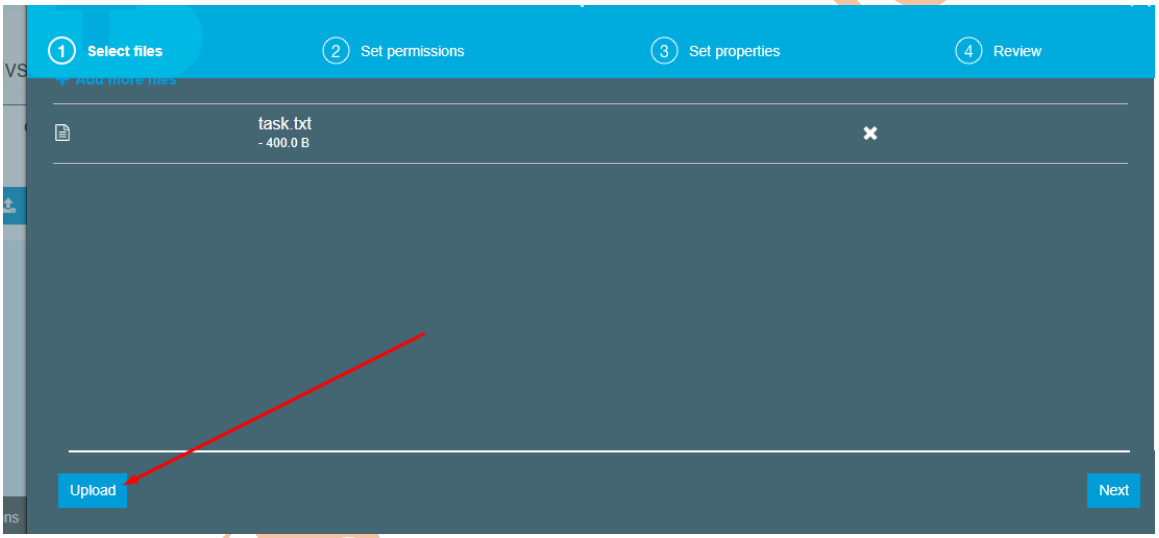
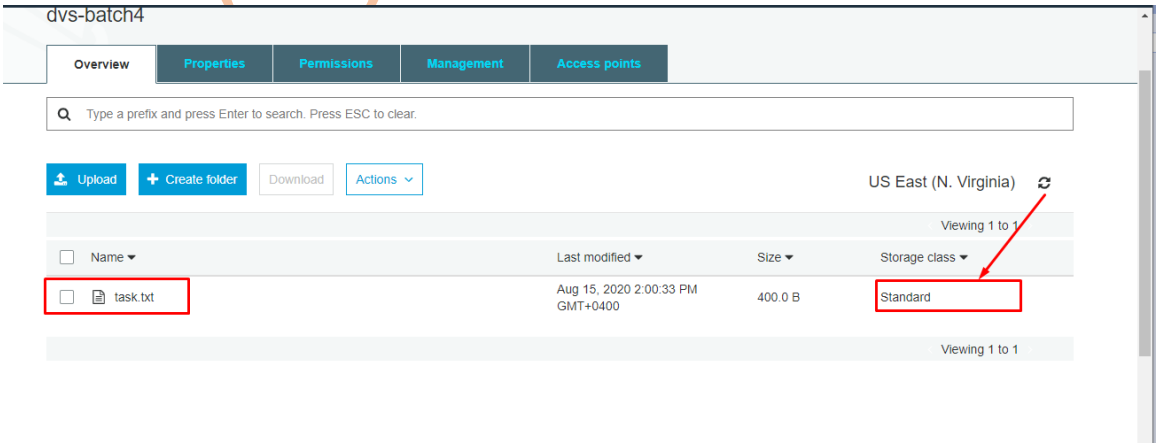
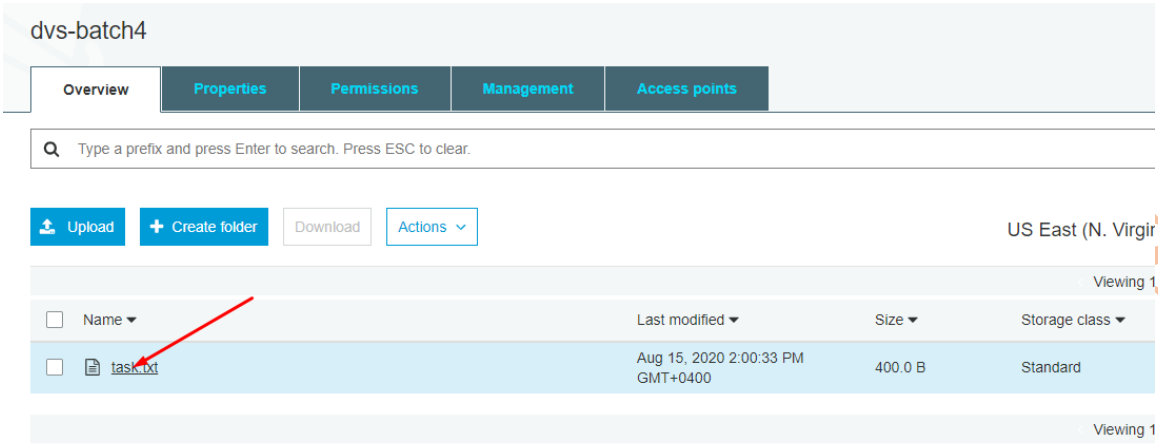
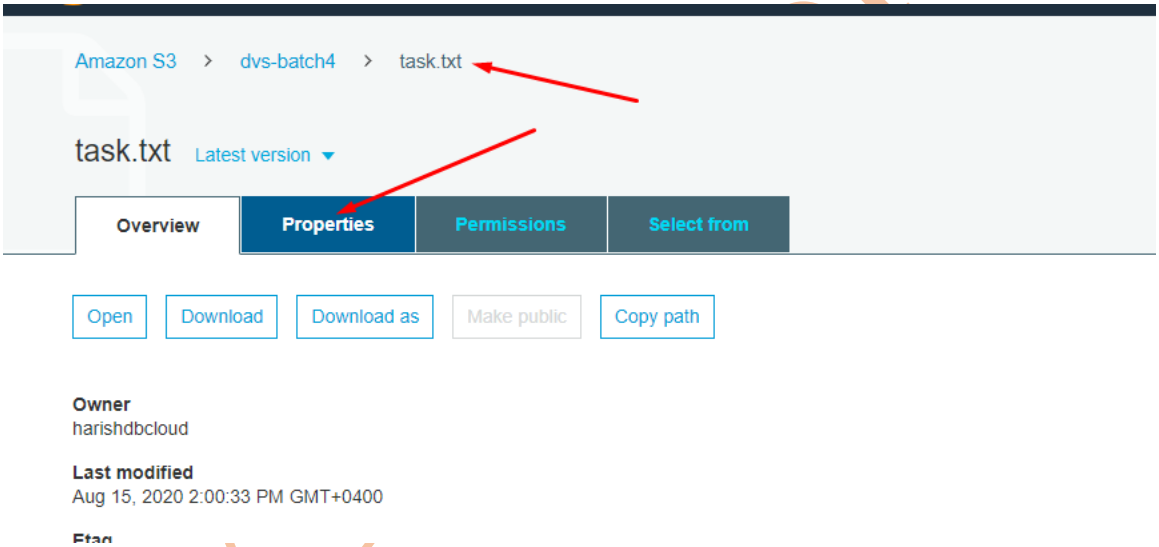


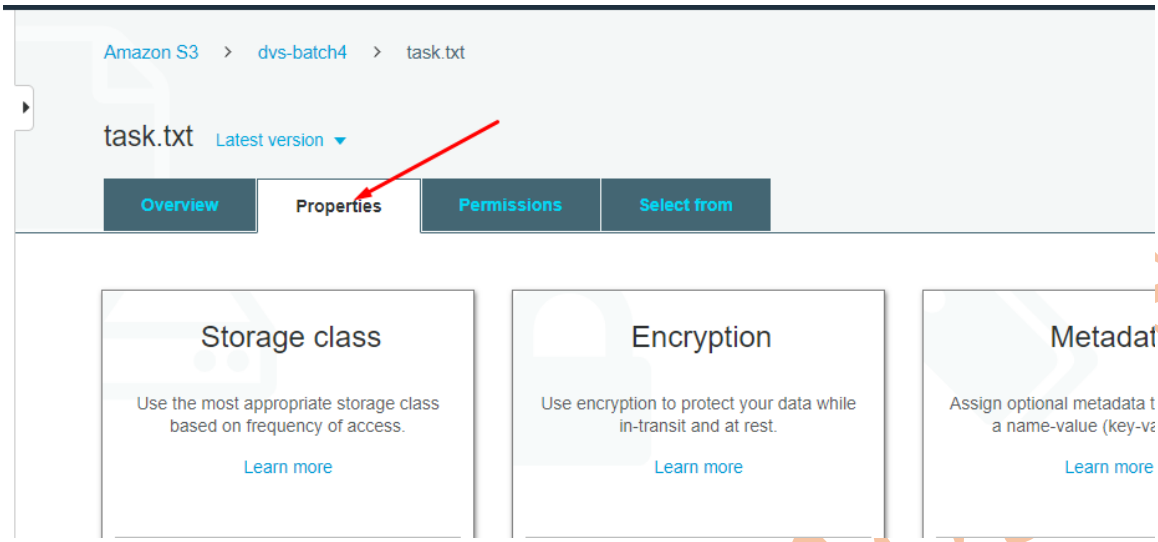


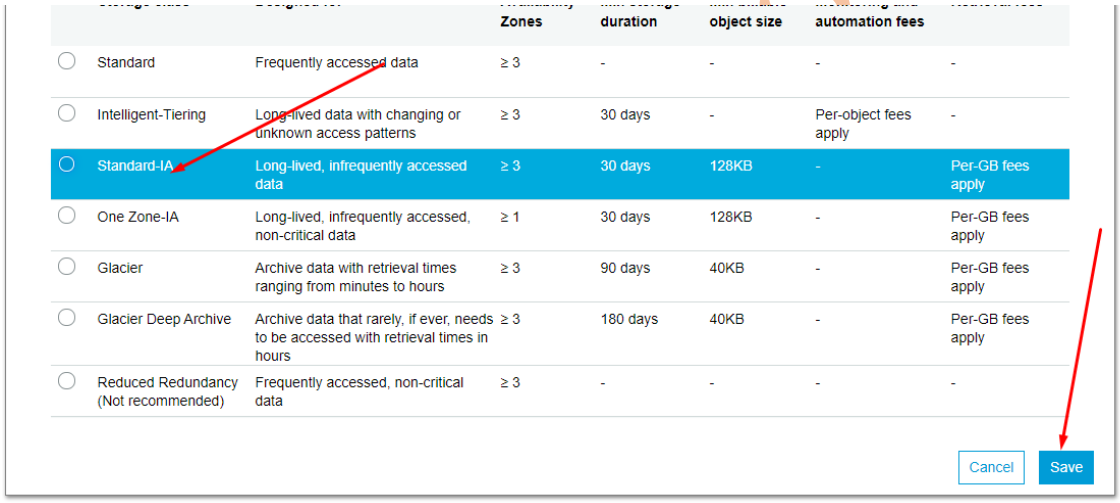


DVS Technologies Aws & Devops





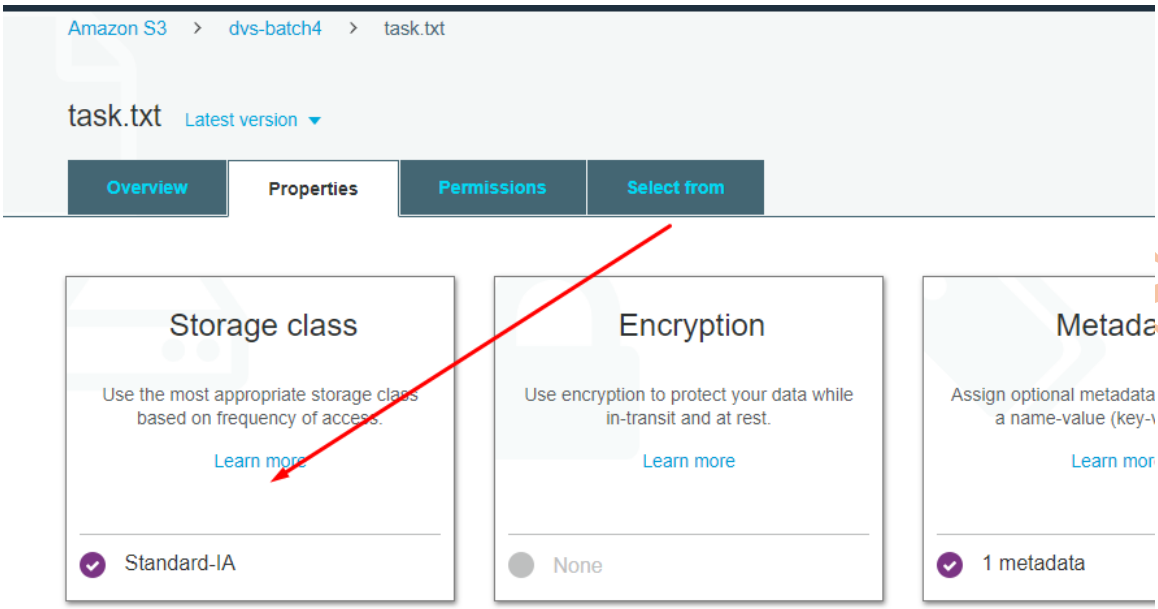


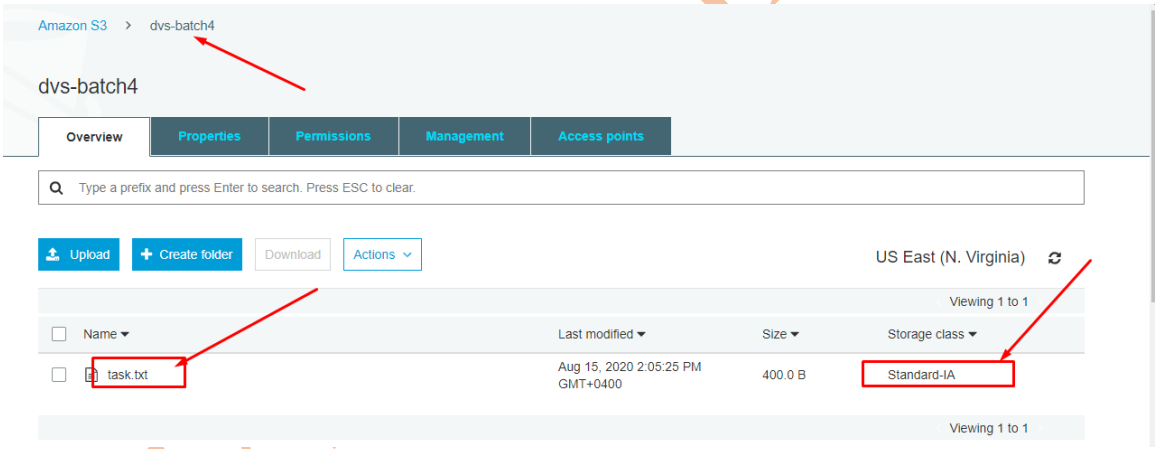


			Zones	duration	object size	automation fees	
○	Standard	Frequently accessed data	≥ 3	-	-	-	-
○	Intelligent-Tiering	Long-lived data with changing or unknown access patterns	≥ 3	30 days	-	Per-object fees apply	-
○	Standard-IA	Long-lived, infrequently accessed data	≥ 3	30 days	128KB	-	Per-GB fees apply
○	One Zone-IA	Long-lived, infrequently accessed, non-critical data	≥ 1	30 days	128KB	-	Per-GB fees apply
○	Glacier	Archive data with retrieval times ranging from minutes to hours	≥ 3	90 days	40KB	-	Per-GB fees apply
○	Glacier Deep Archive	Archive data that rarely, if ever, needs to be accessed with retrieval times in hours	≥ 3	180 days	40KB	-	Per-GB fees apply
○	Reduced Redundancy (Not recommended)	Frequently accessed, non-critical data	≥ 3	-	-	-	-

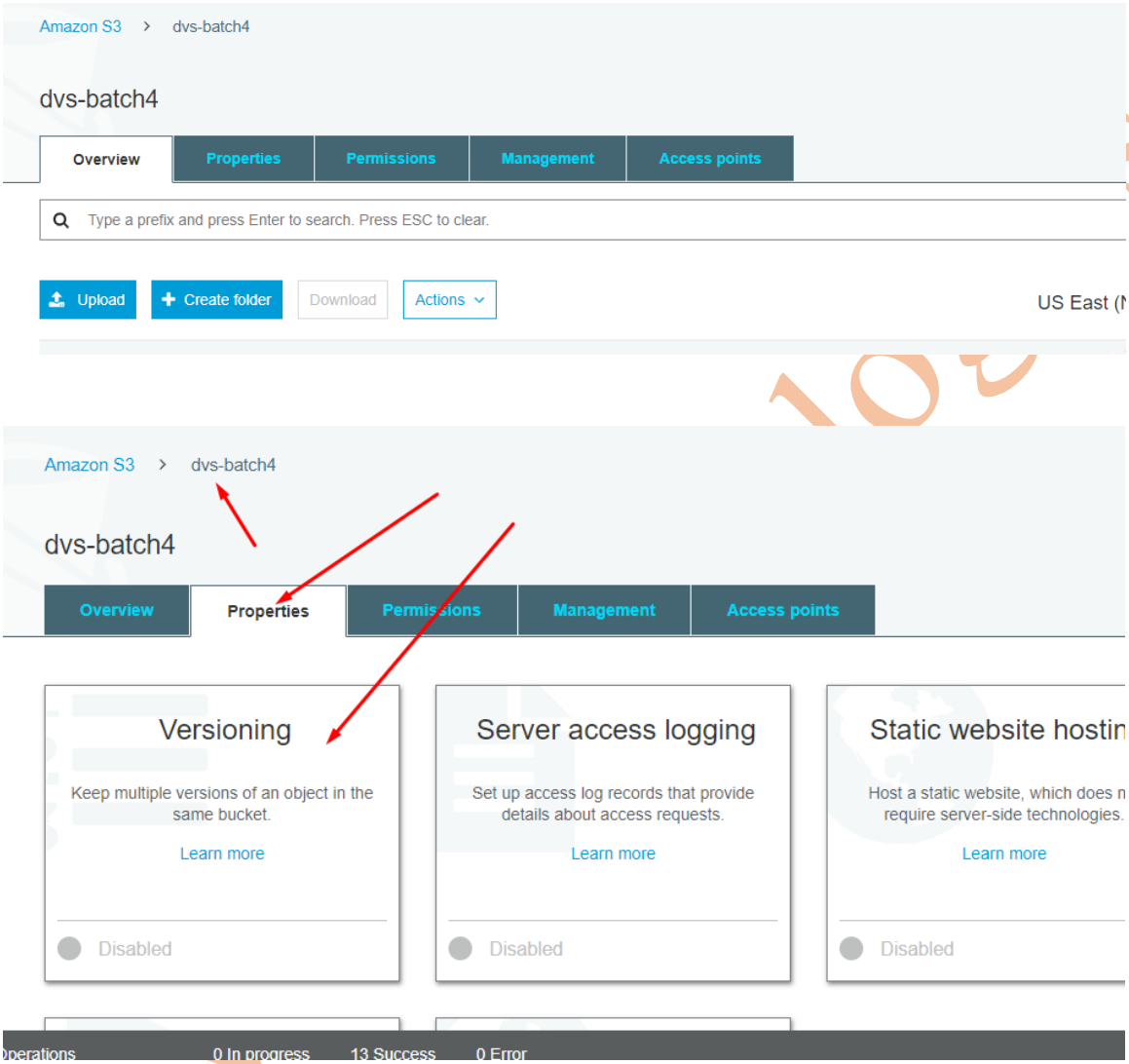
Cancel Save

DVS Technologies Aws & Devops

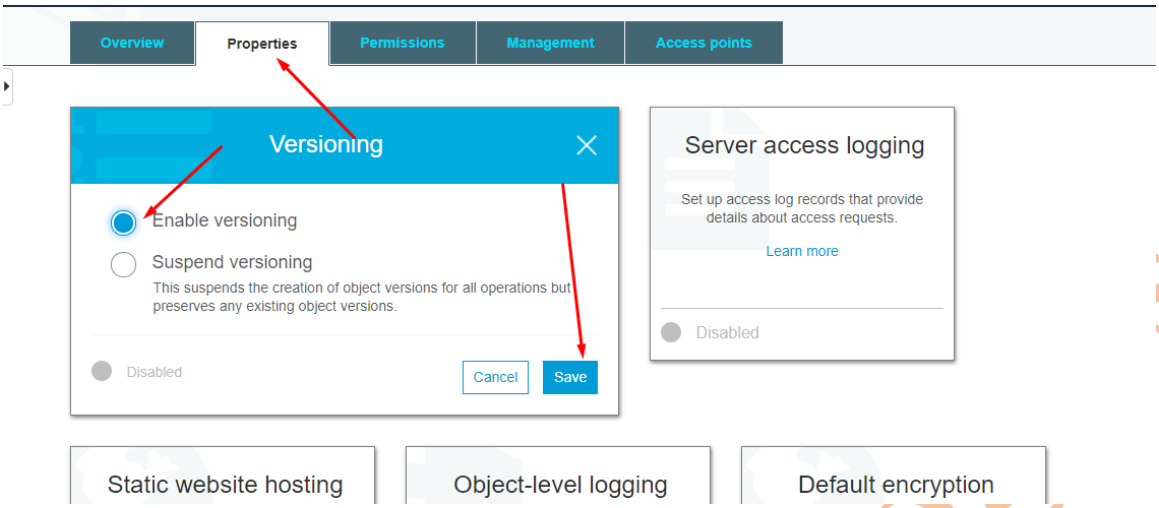


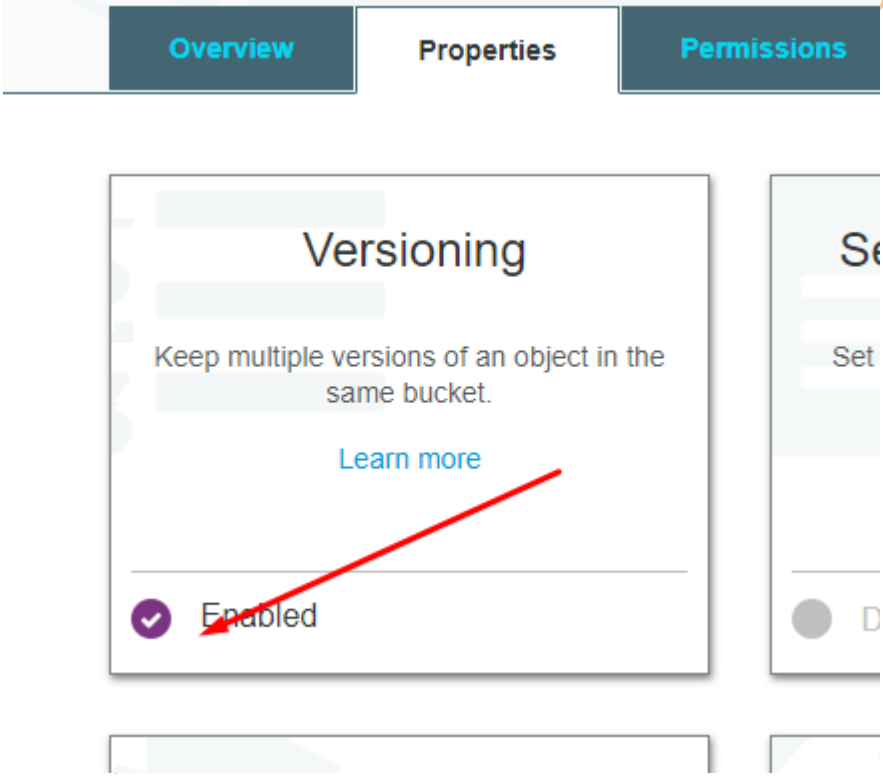


2. Versioning

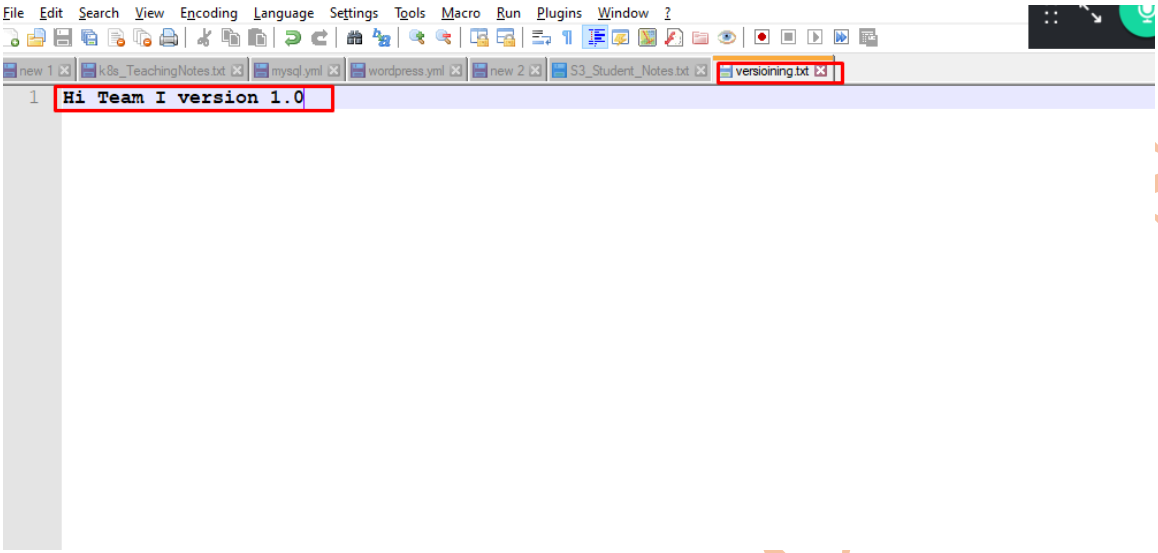


DVS Technologies Aws & Devops

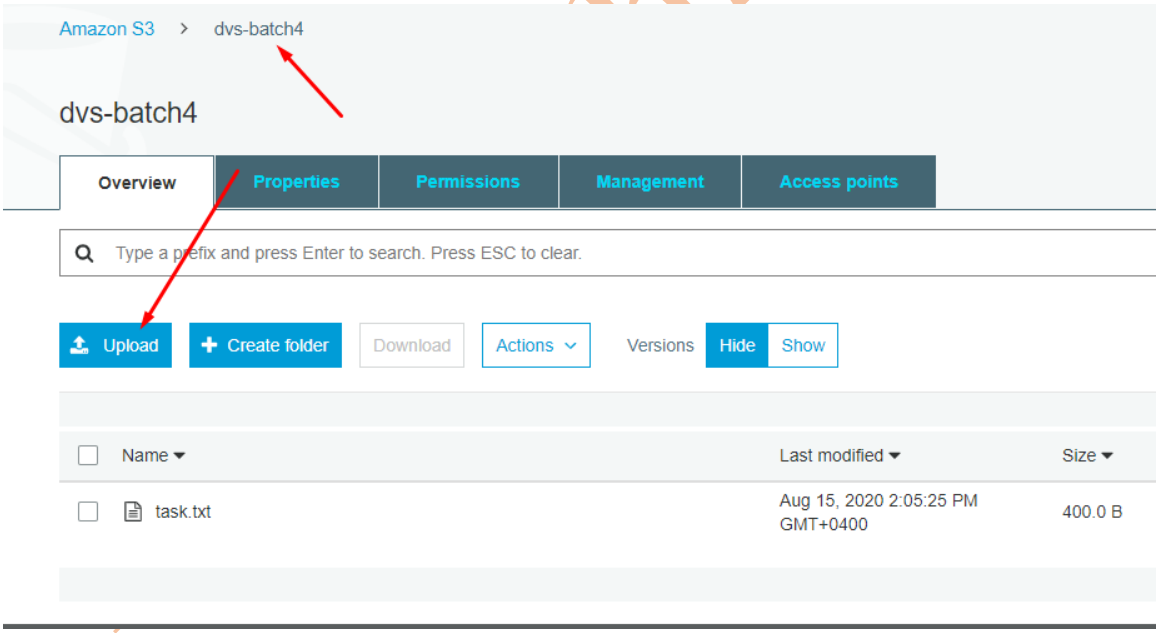




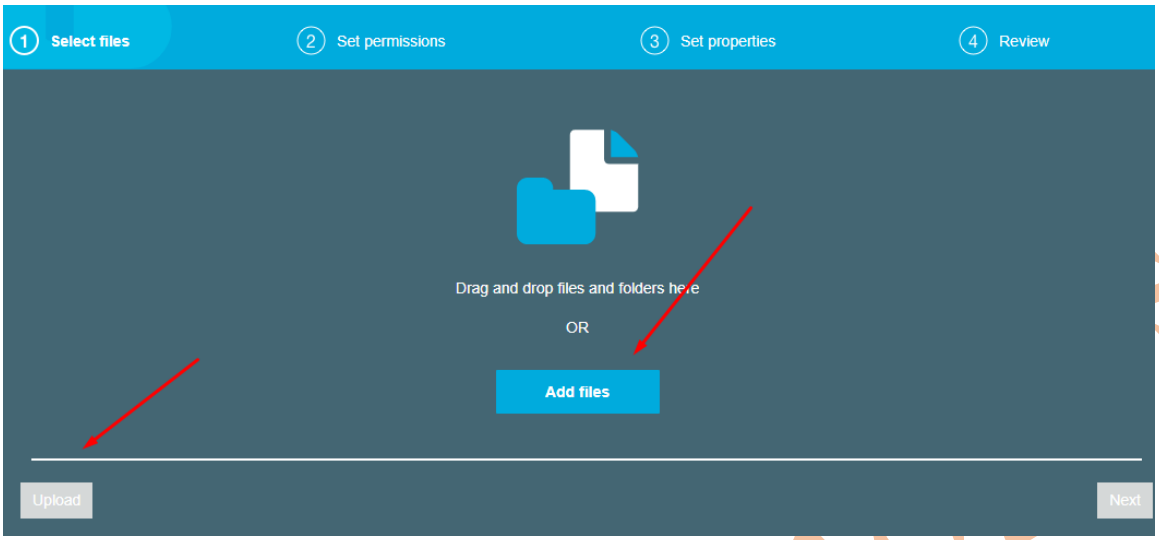
Create one file with any content like below.

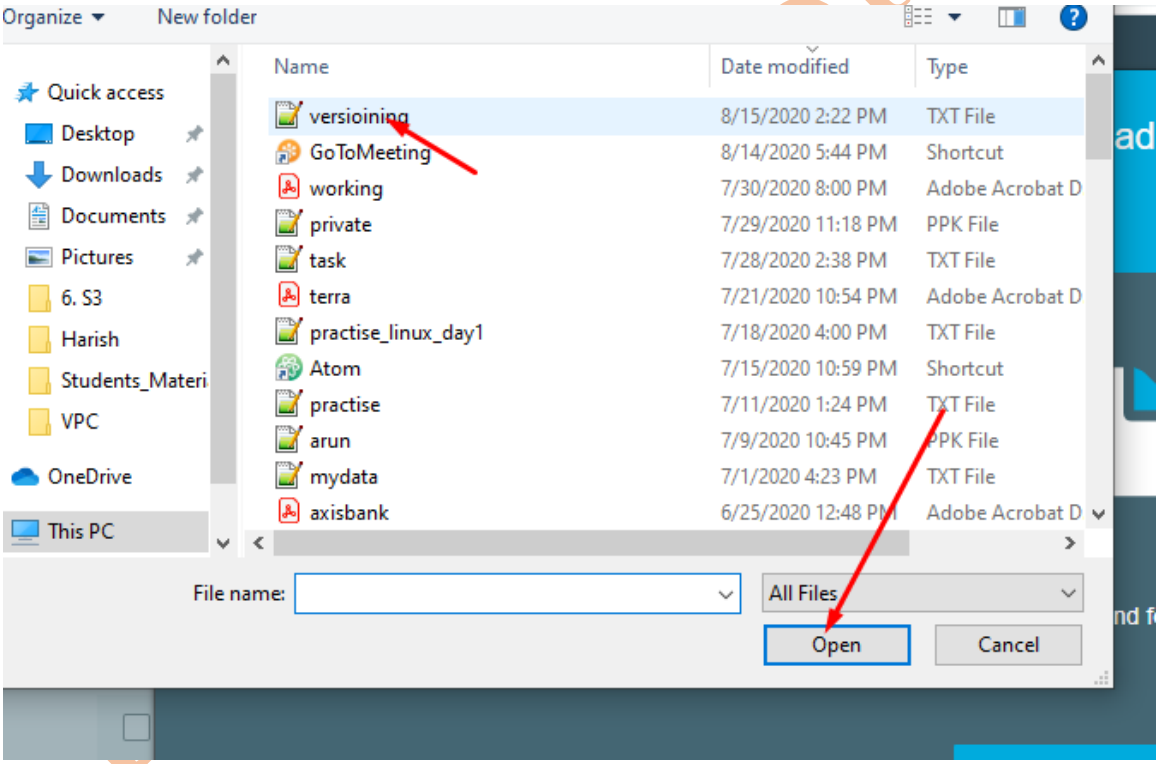


Let's say file name as versioning.txt

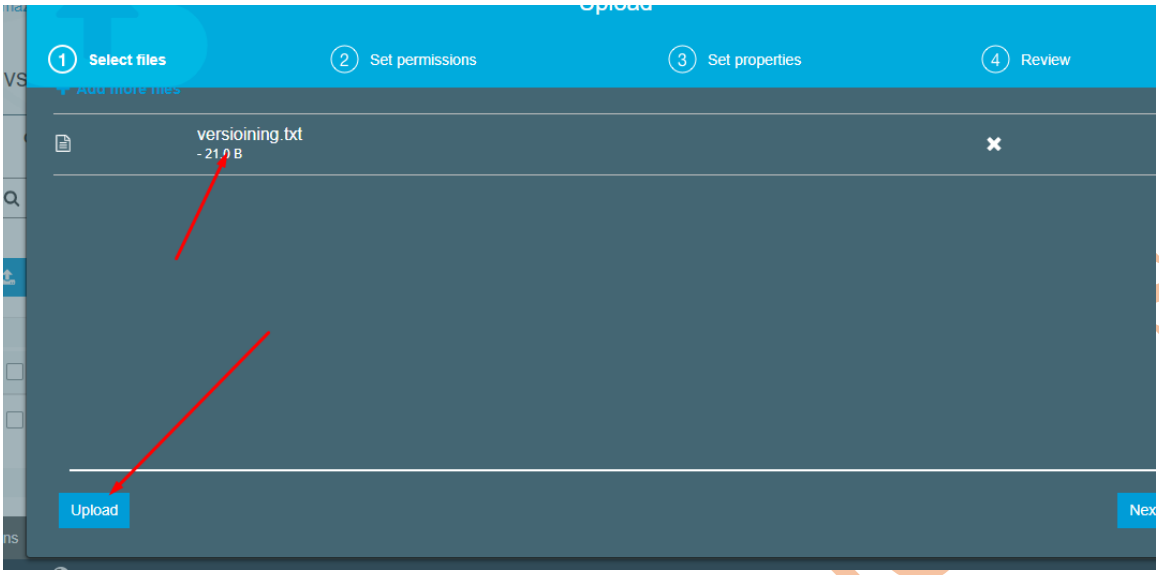


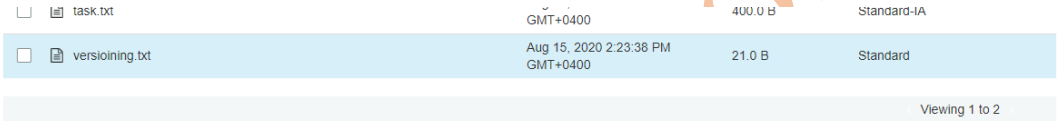
DVS Technologies Aws & Devops

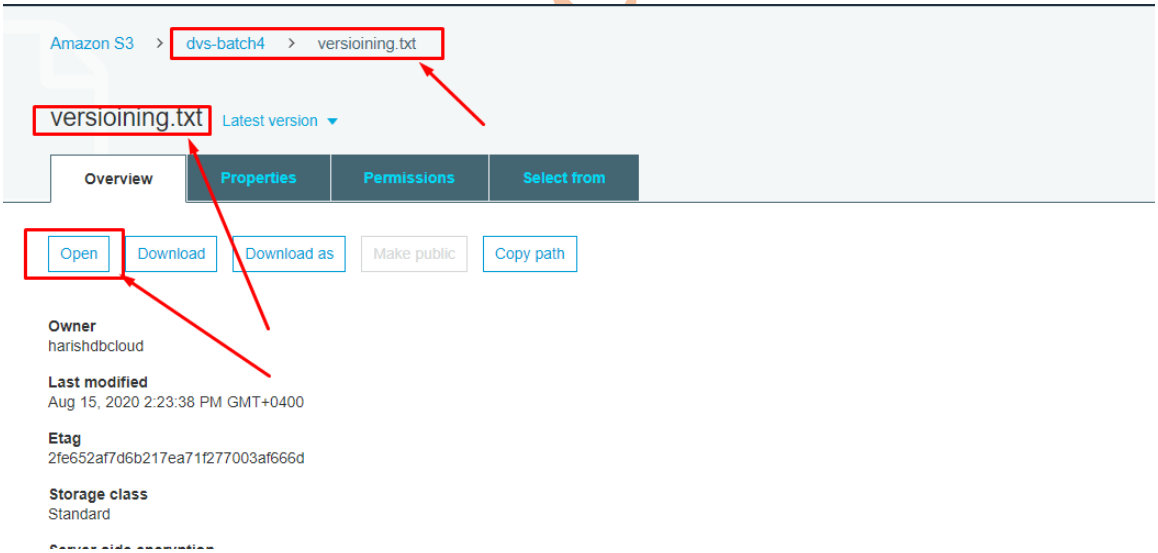




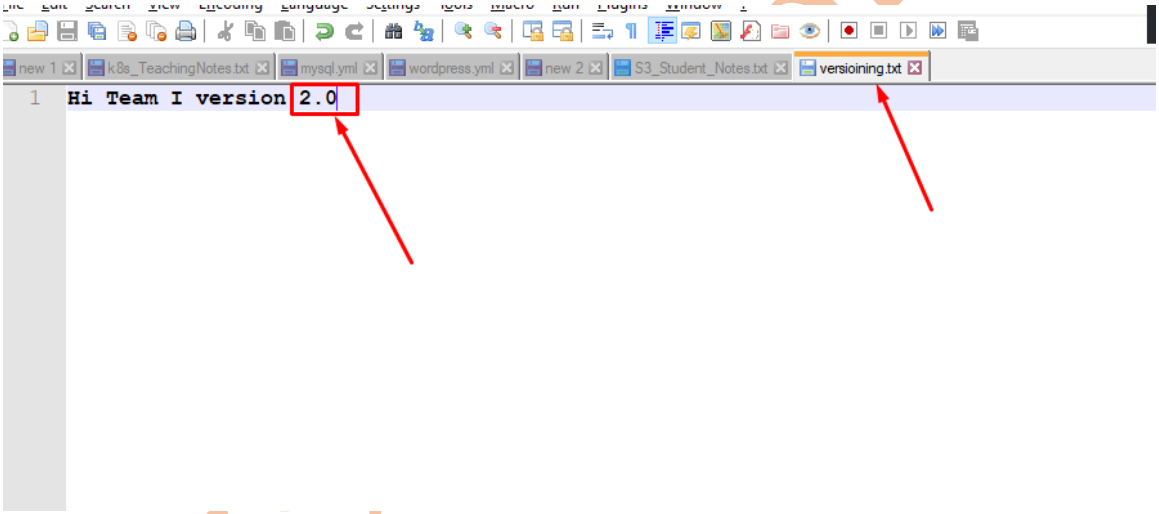
DVS Technologies Aws & Devops



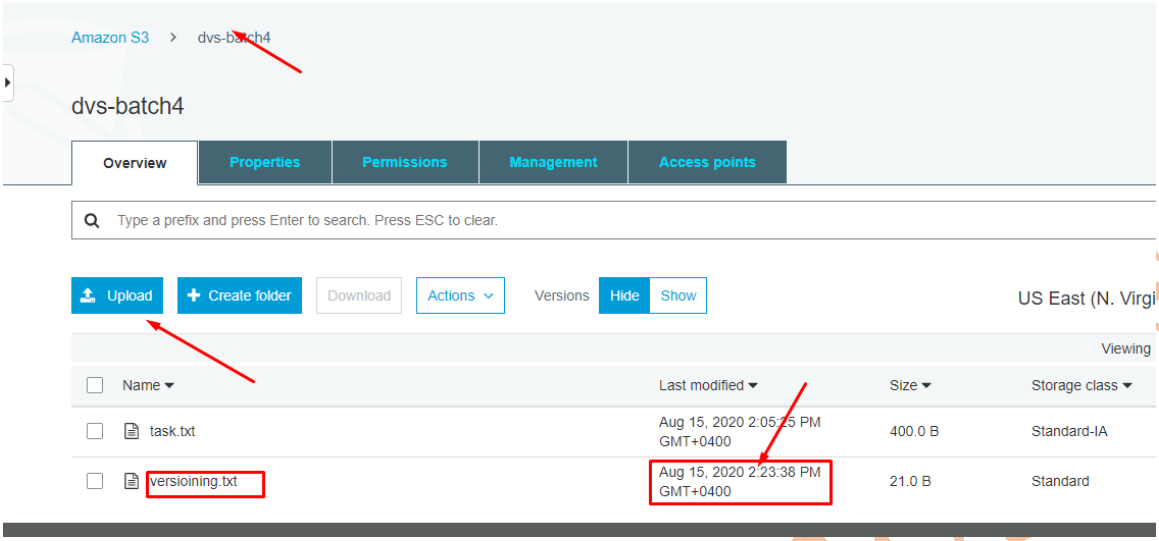


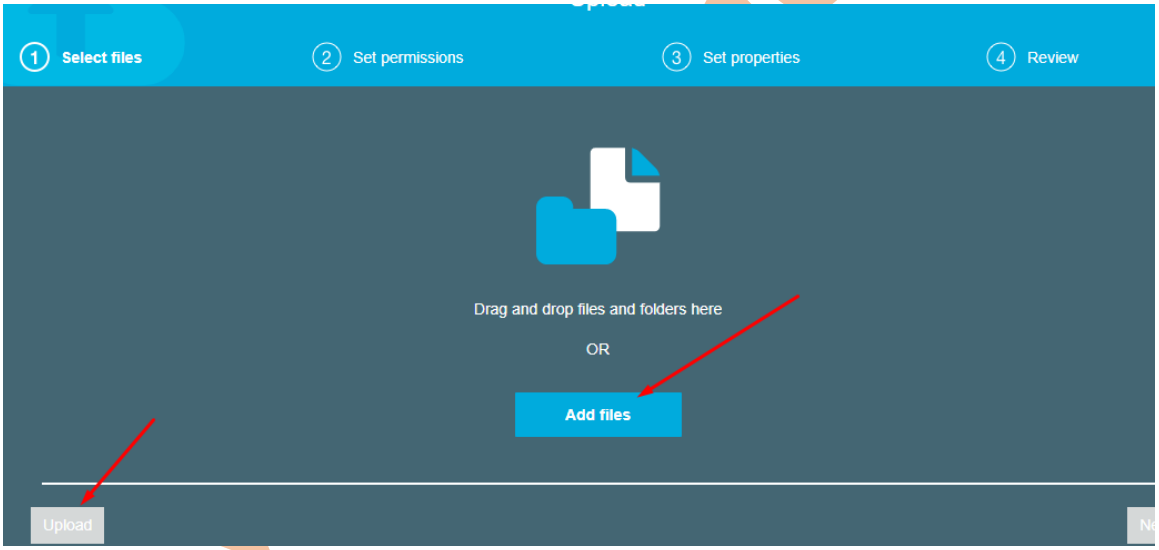


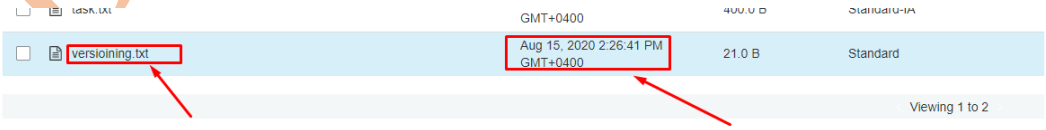
Let's try to do the changes to the file versioning.txt flle as below

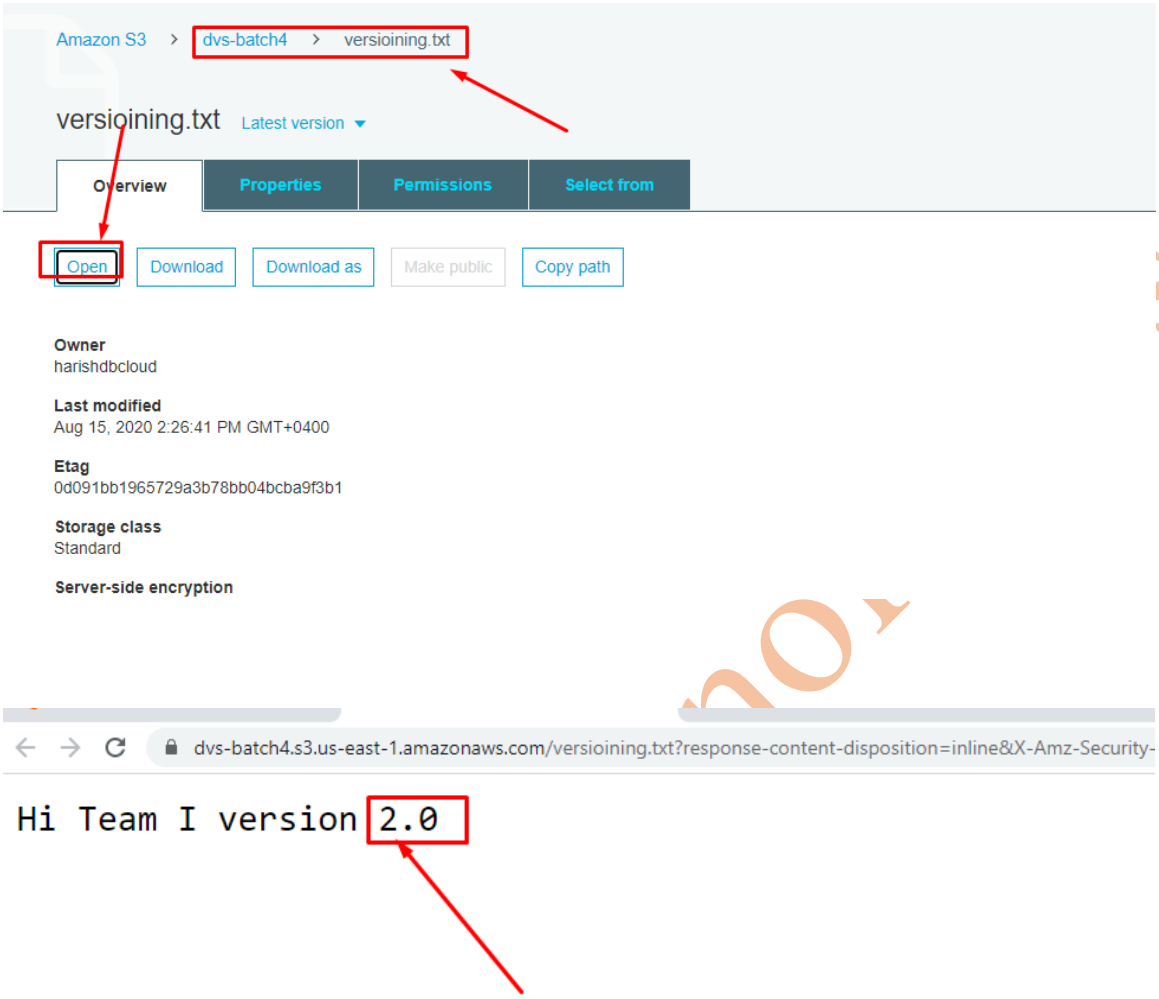


DVS Technologies Aws & Devops

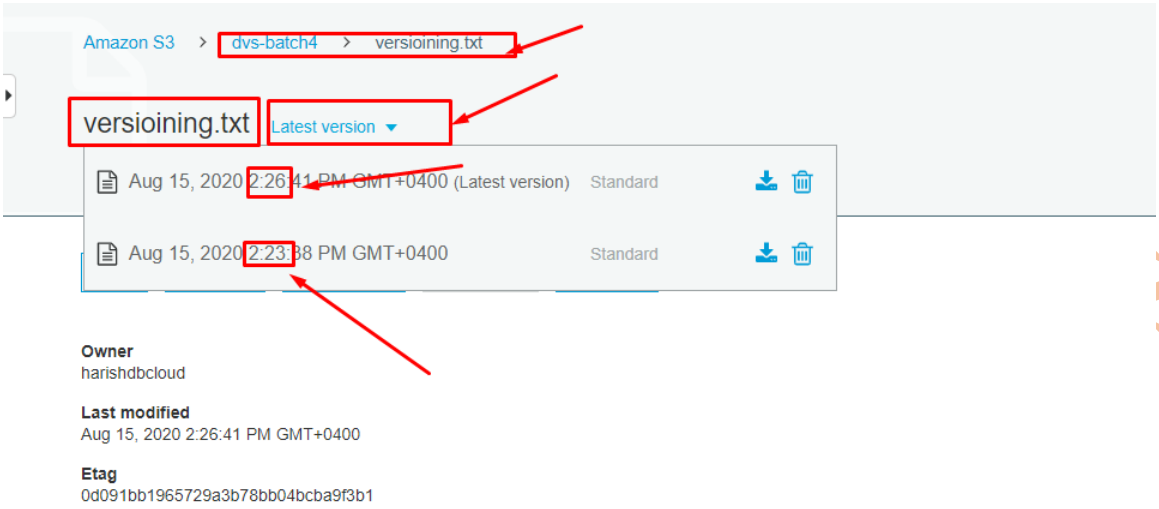


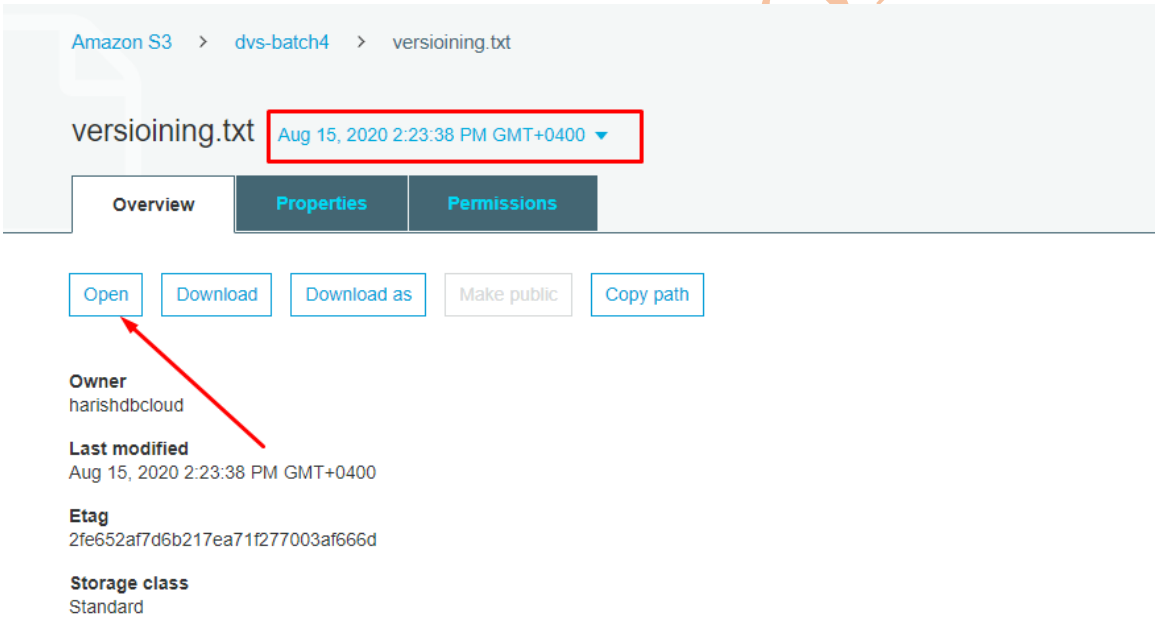


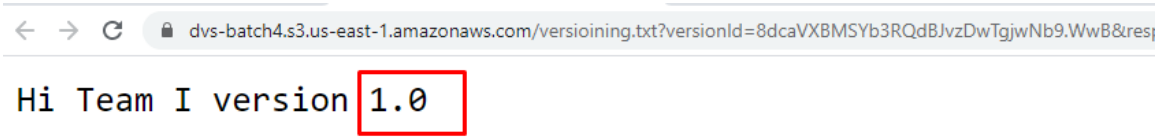




Here I can see the newly updated file details but I want to revert back the changes to the previous version.


Amazon S3 > dvs-batch4 > versioining.txt
versioining.txt
Latest version
Aug 15, 2020 2:26:41 PM GMT+0400 (Latest version) Standard
Aug 15, 2020 2:23:38 PM GMT+0400 Standard
Owner
harishdbcloud
Last modified
Aug 15, 2020 2:26:41 PM GMT+0400
Etag
0d091bb1965729a3b78bb04bcba9f3b1

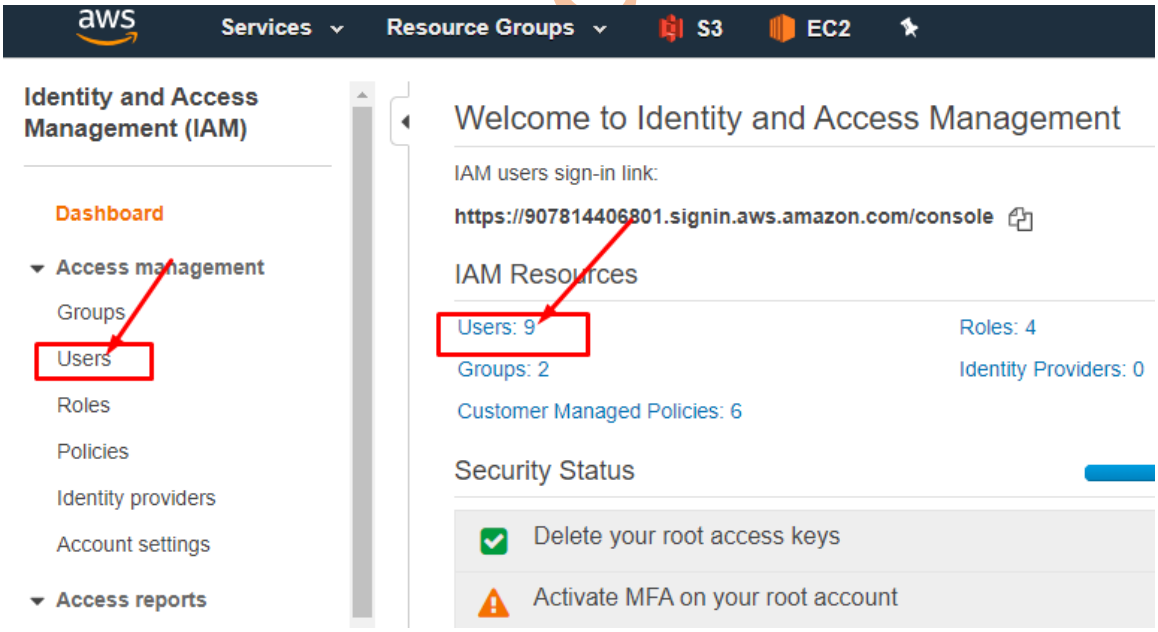

Amazon S3 > dvs-batch4 > versioining.txt
versioining.txt
Aug 15, 2020 2:23:38 PM GMT+0400
Overview
Properties
Permissions
Open
Download
Download as
Make public
Copy path
Owner
harishdbcloud
Last modified
Aug 15, 2020 2:23:38 PM GMT+0400
Etag
2fe652af7d6b217ea71f277003af666d
Storage class
Standard



3. S3 Bucket Policies

Let's try to create the customized S3 Bucket policy

Create a user called "somesh" and grant him read access for S3



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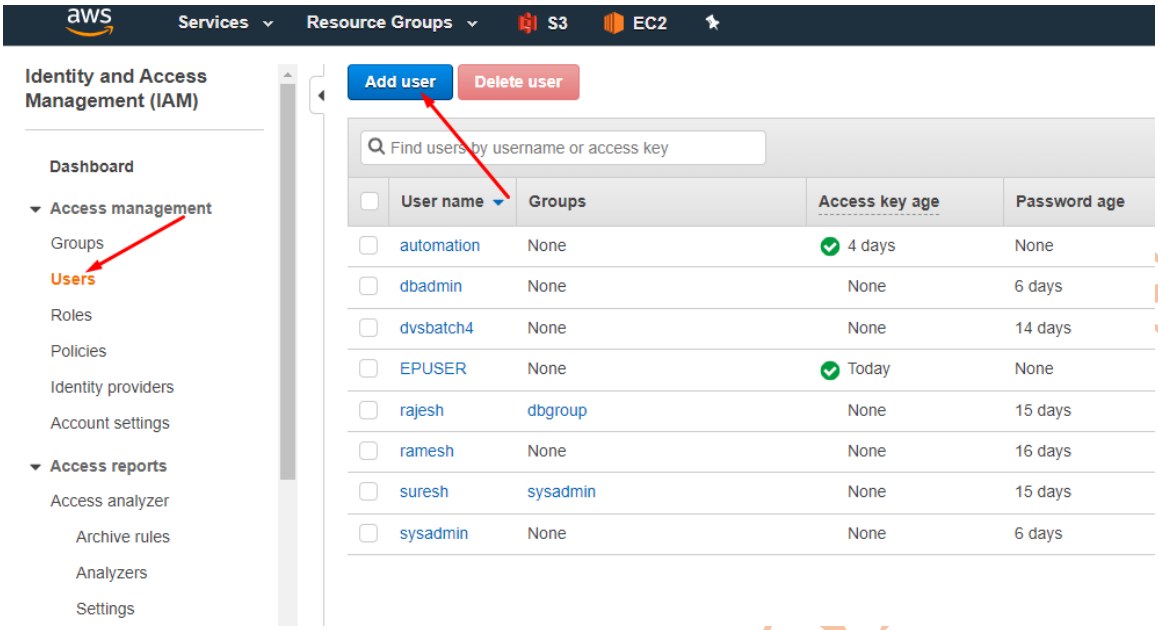
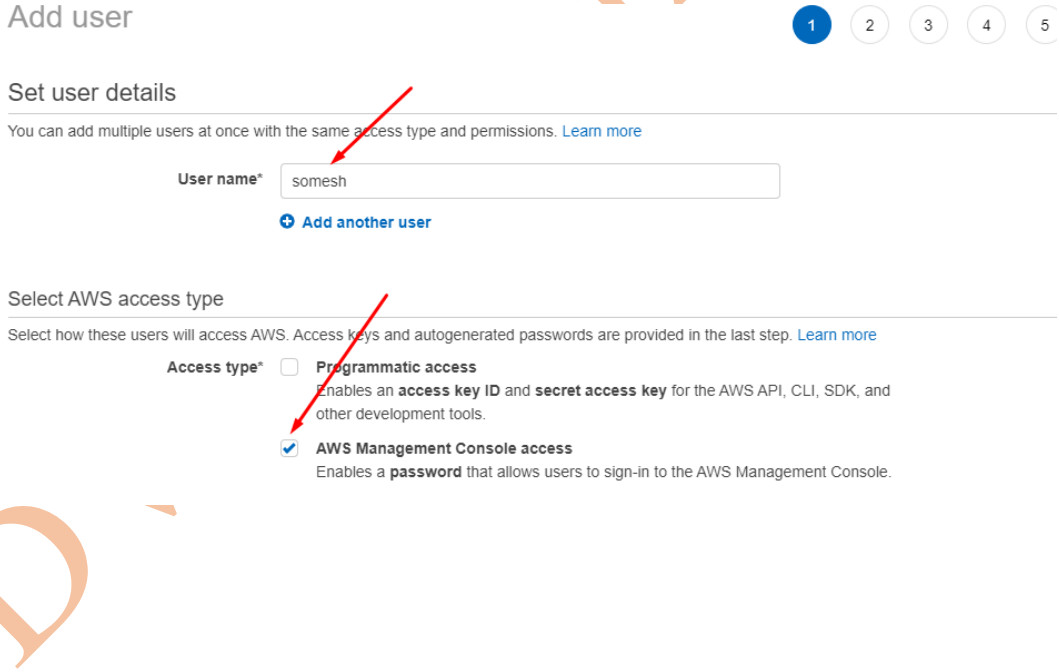
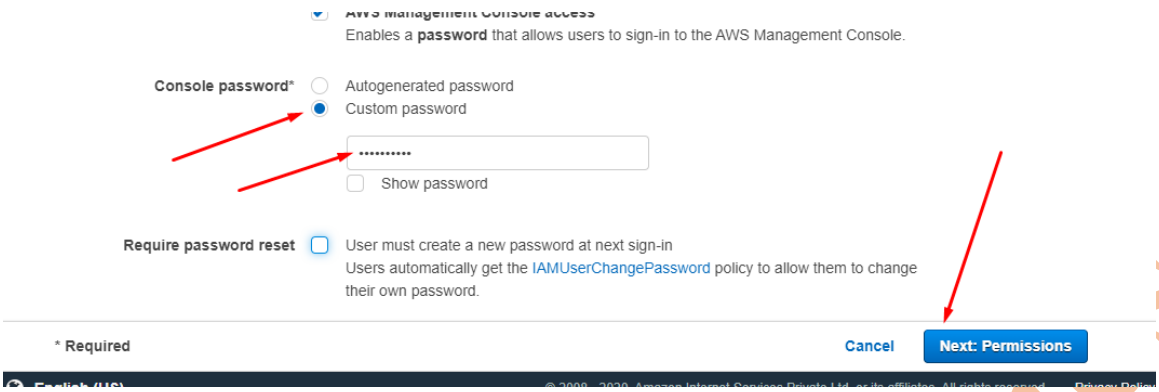
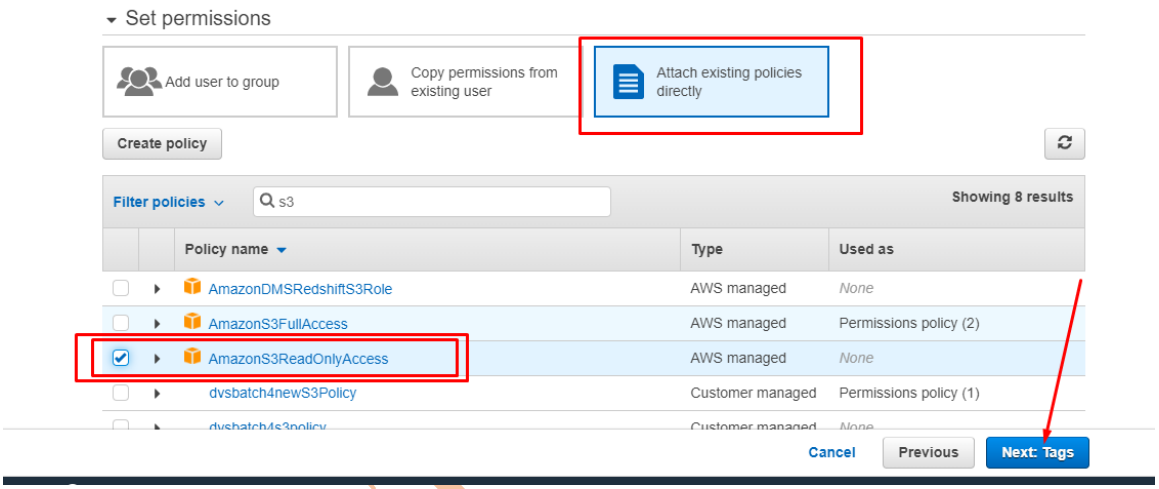
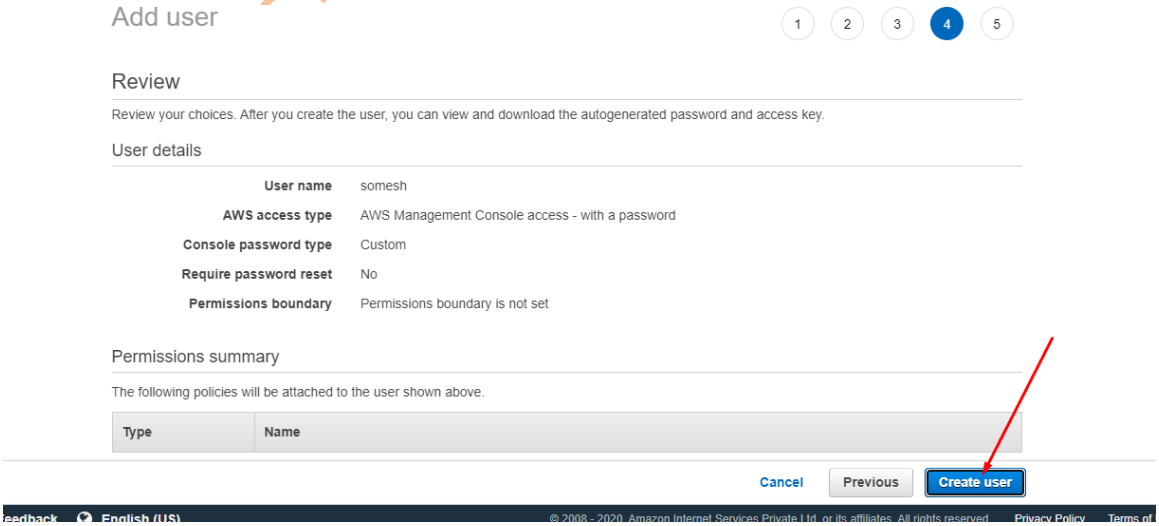




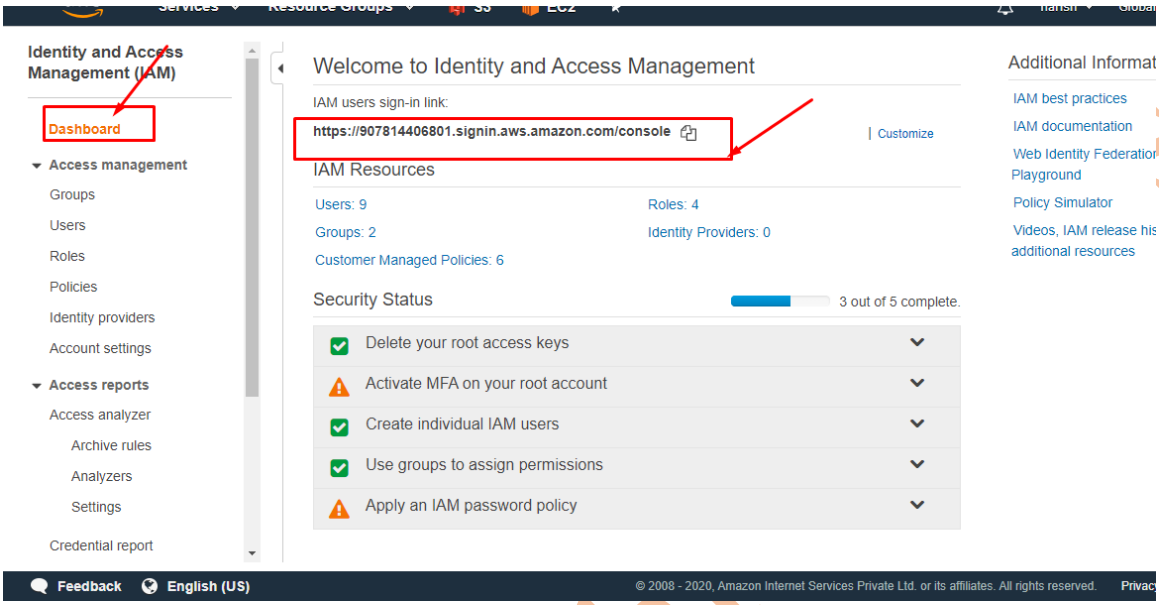
DVS Technologies Aws & Devops

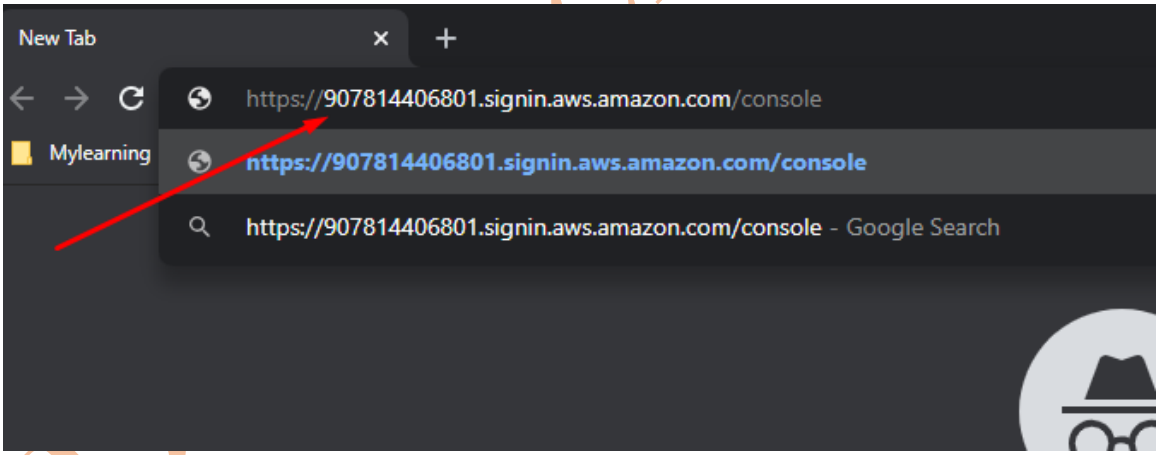




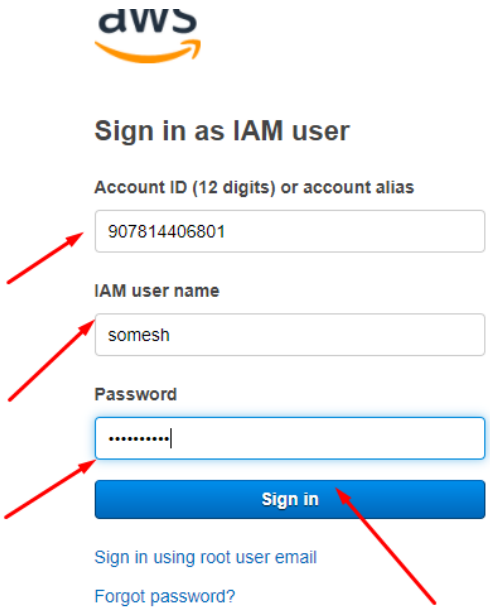


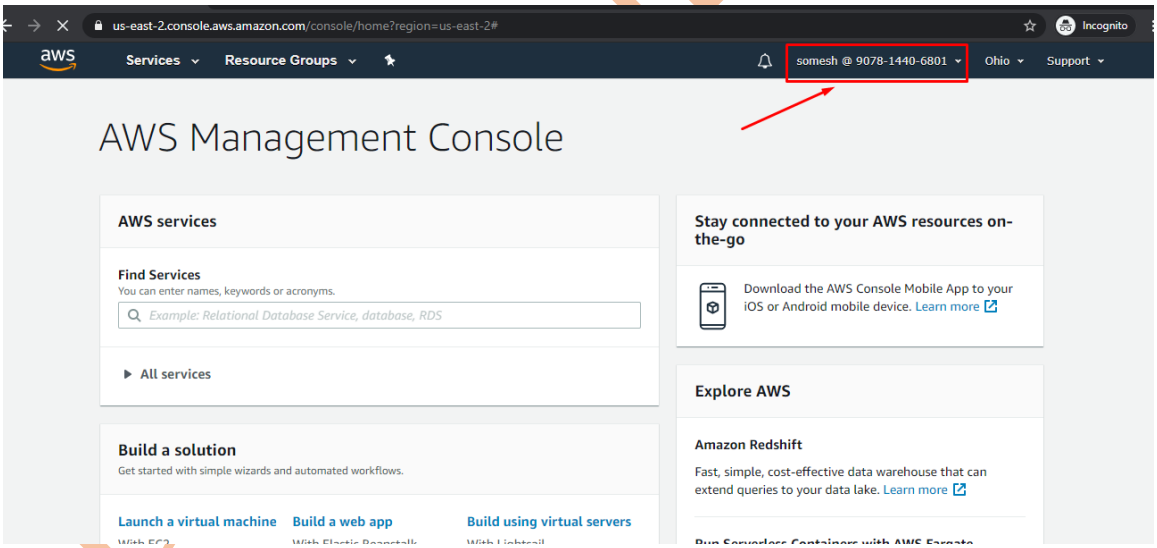
Let's try to login to the console using "somesh" user:





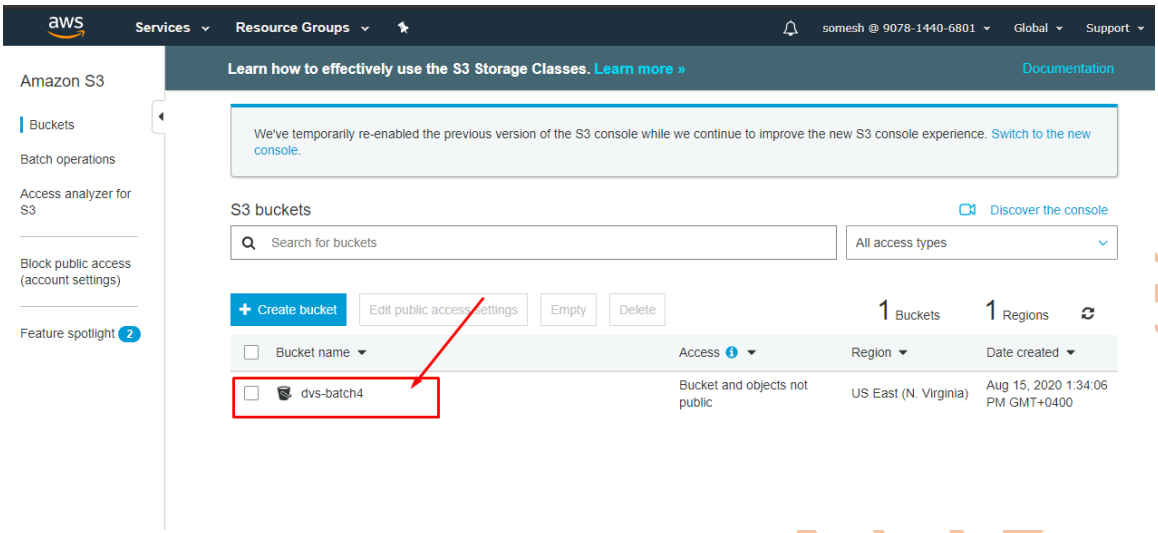
DVS Technologies Aws & Devops

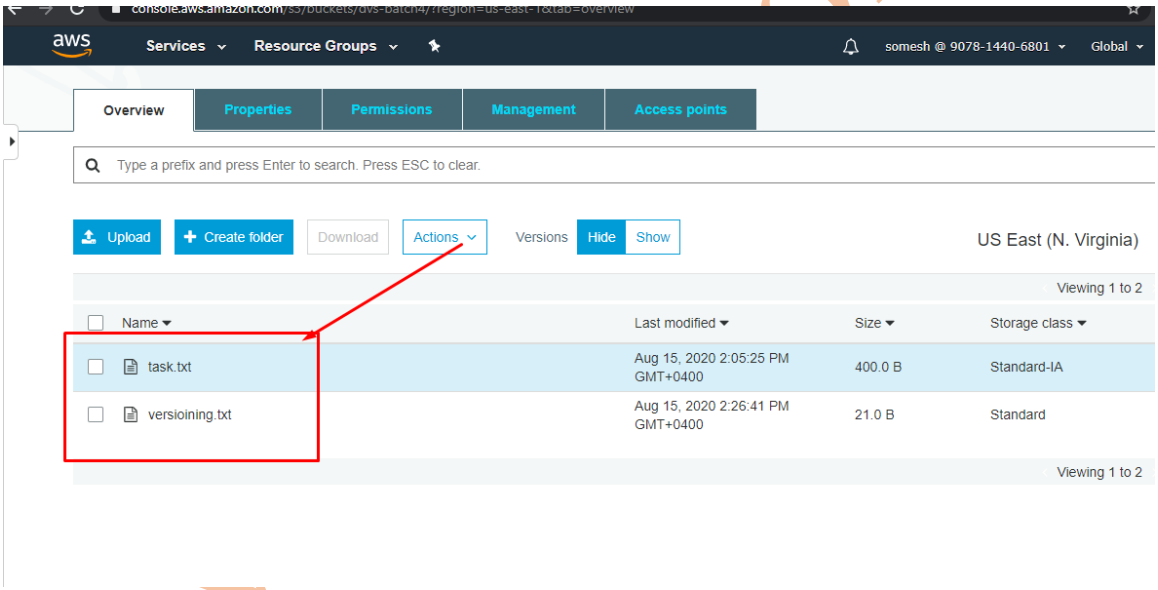




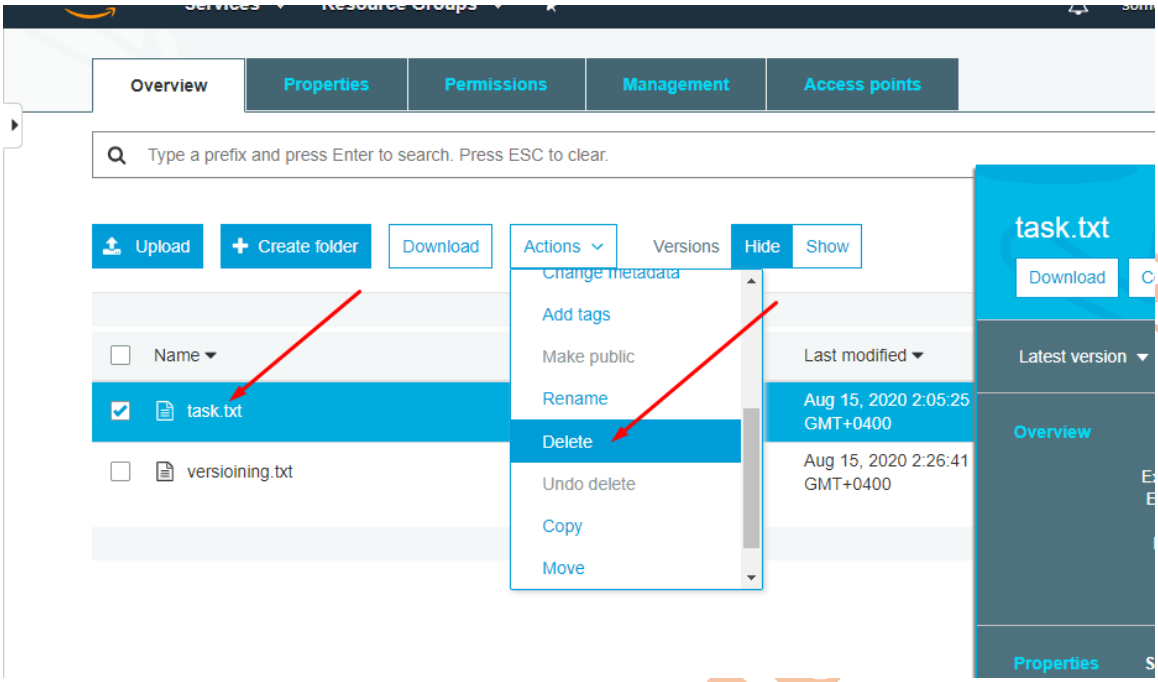
Let's test if somesh can see the data in the buckets inourcase "dvs-batch4" and can delete or modify the existing content inside the bucket (dvs-batch4) or not.

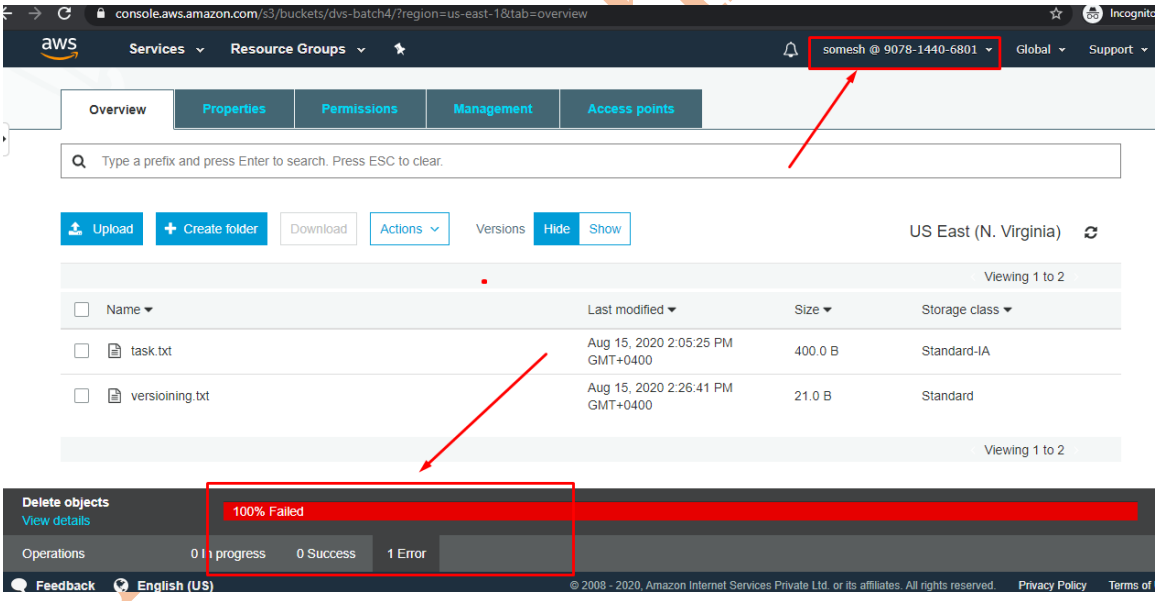
DVS Technologies Aws & Devops





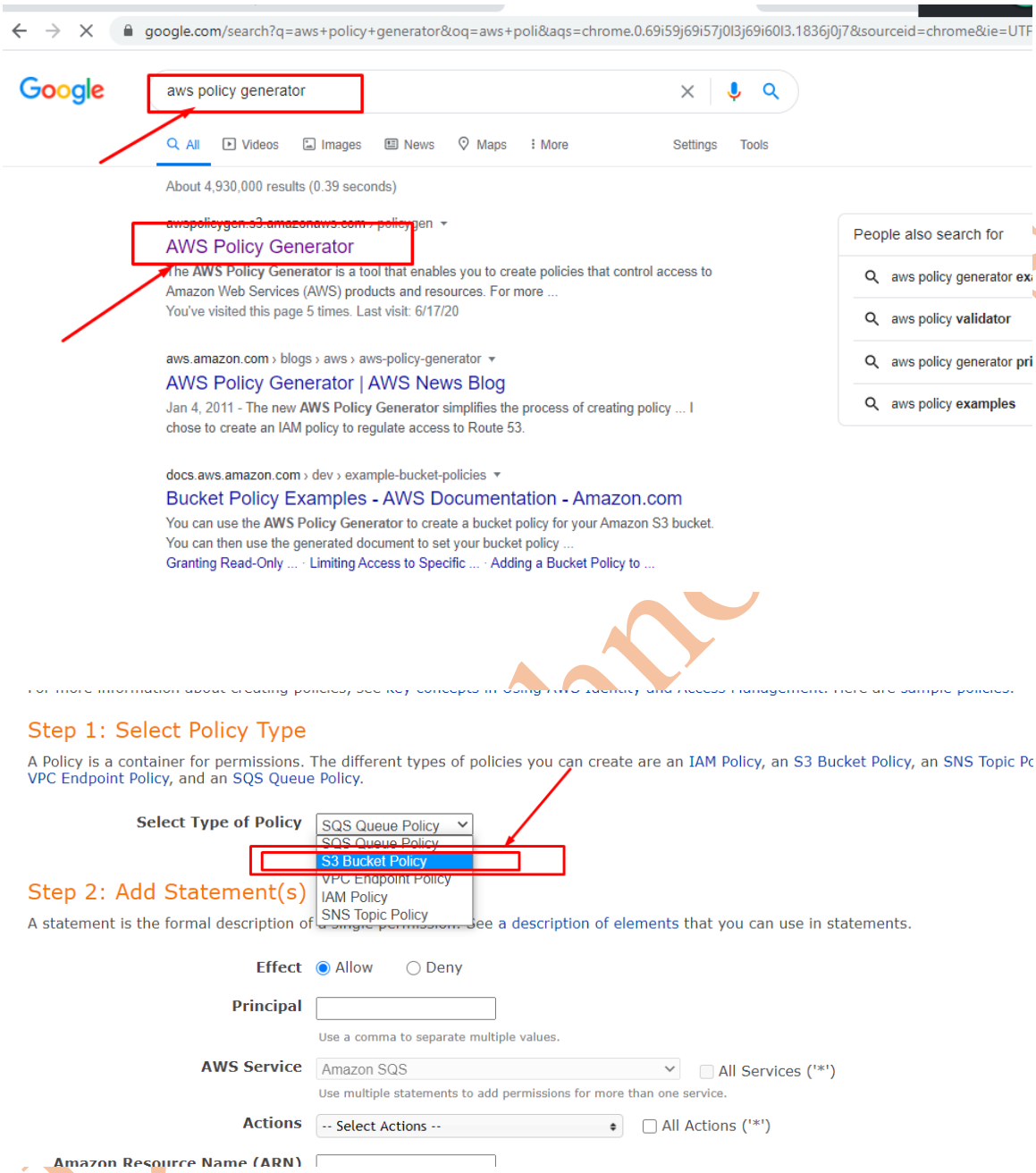
DVS Technologies Aws & Devops

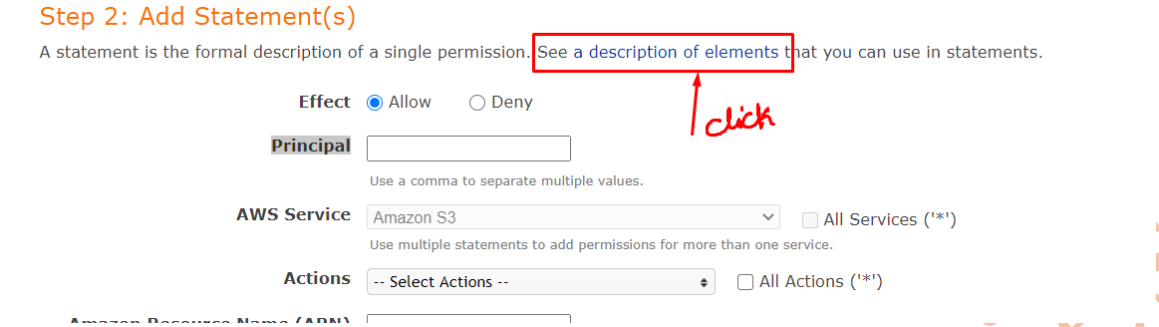


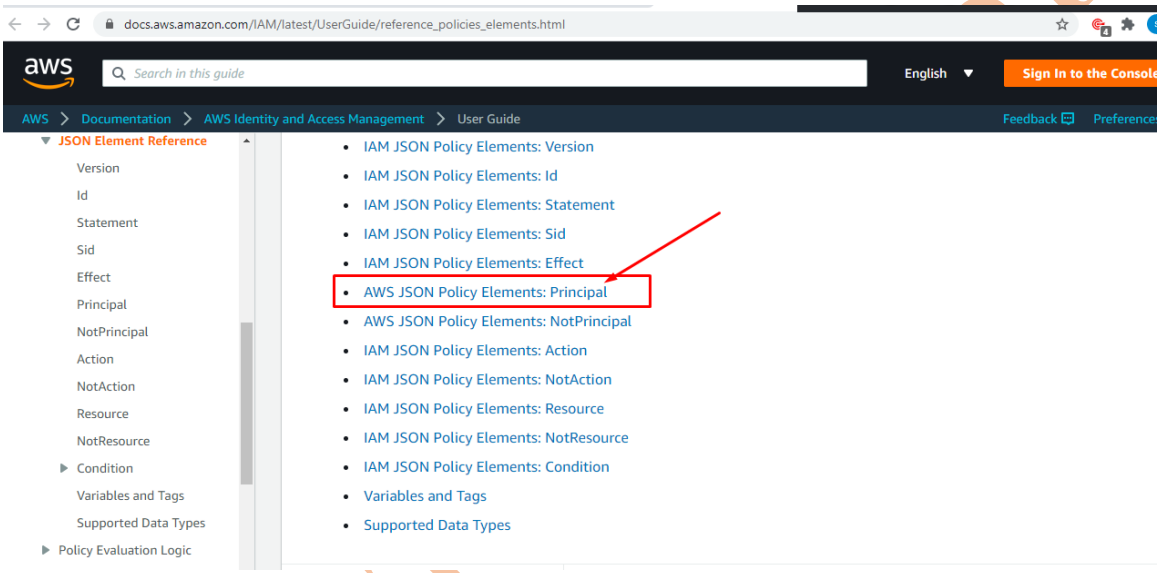


Now configure S3 Bucket policy for "somesh" user to perform some operation on dvs-batch4 bucket.

DVS Technologies Aws & Devops




Step 2: Add Statement(s)
A statement is the formal description of a single permission. See a description of elements that you can use in statements.
click
Effect
Allow
Deny
Principal
Use a comma to separate multiple values.
AWS Service
Amazon S3
All Services ('*')
Use multiple statements to add permissions for more than one service.
Actions
-- Select Actions --
All Actions ('*')


docs.aws.amazon.com/IAM/latest/UserGuide/reference_policies_elements.html
aws
Search in this guide
English
Sign In to the Console
AWS > Documentation > AWS Identity and Access Management > User Guide
Feedback
Preferences
JSON Element Reference
Version
Id
Statement
Sid
Effect
Principal
NotPrincipal
Action
NotAction
Resource
NotResource
Condition
Variables and Tags
Supported Data Types
Policy Evaluation Logic
IAM JSON Policy Elements: Version
IAM JSON Policy Elements: Id
IAM JSON Policy Elements: Statement
IAM JSON Policy Elements: Sid
IAM JSON Policy Elements: Effect
AWS JSON Policy Elements: Principal
AWS JSON Policy Elements: NotPrincipal
IAM JSON Policy Elements: Action
IAM JSON Policy Elements: NotAction
IAM JSON Policy Elements: Resource
IAM JSON Policy Elements: NotResource
IAM JSON Policy Elements: Condition
Variables and Tags
Supported Data Types

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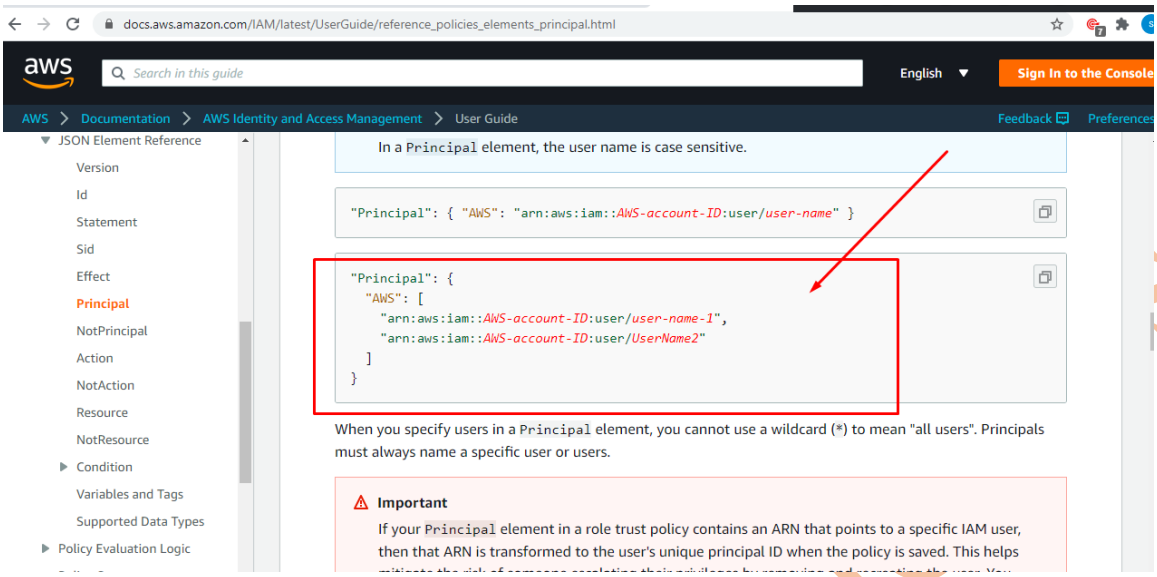
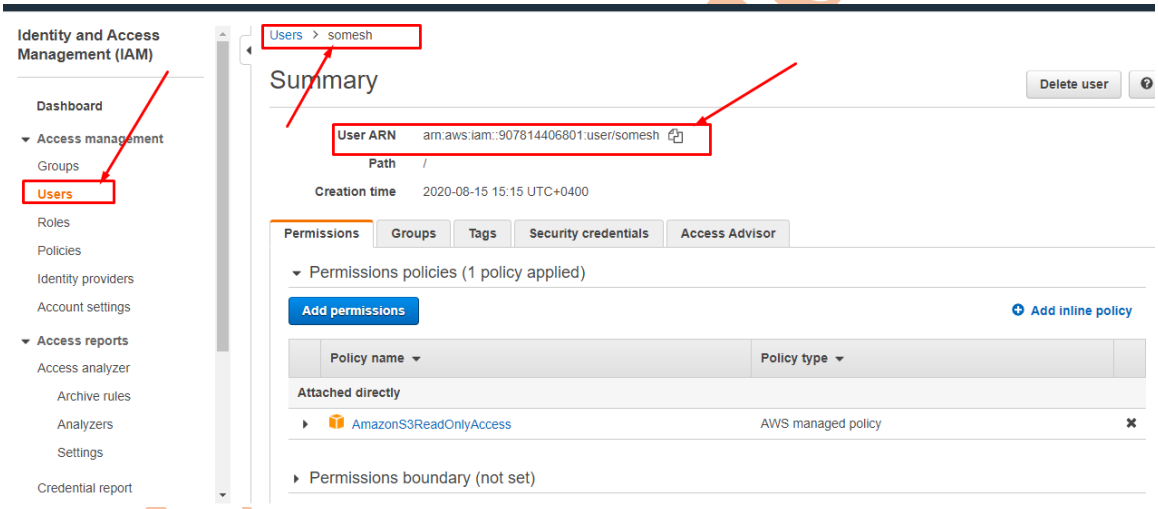
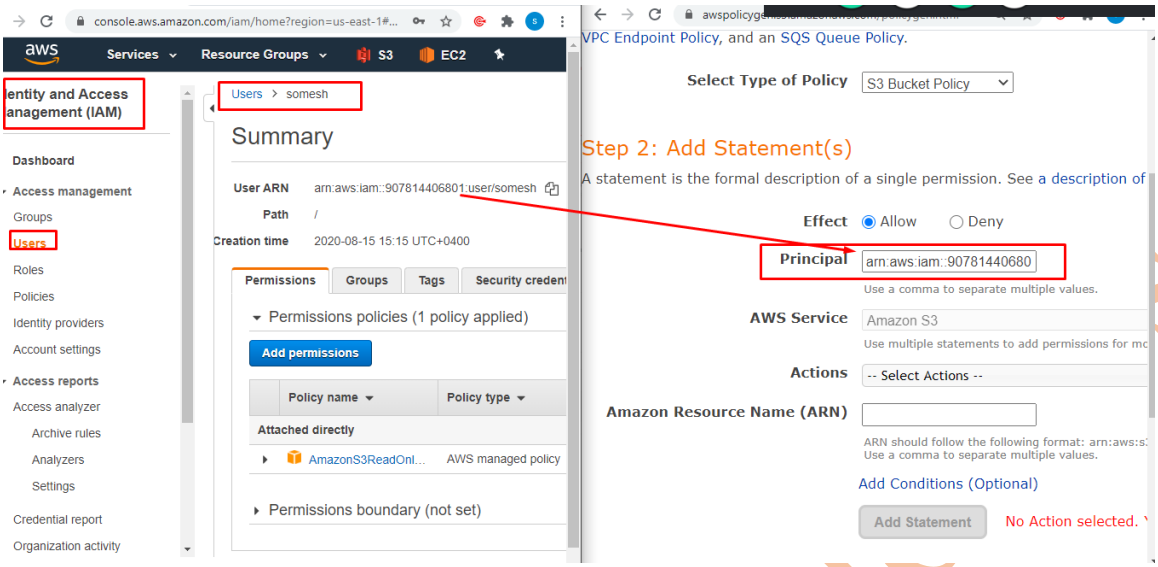
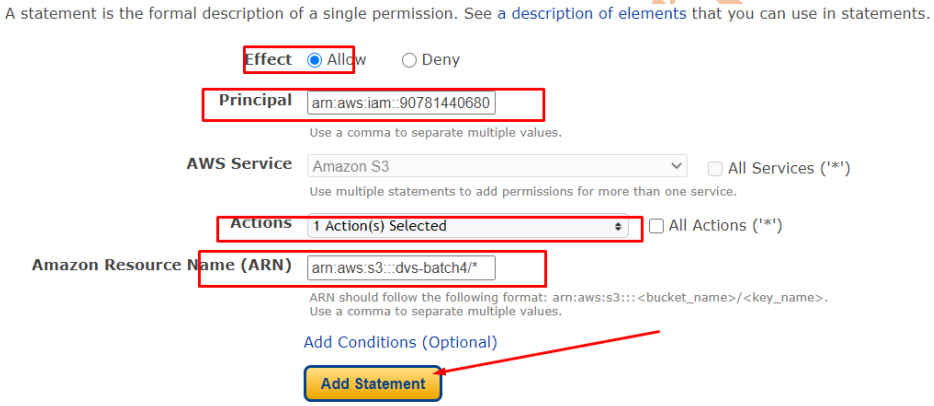




Now copy the above user ARN and paste it in the aws policy generator as below





Step 3: Generate Policy

A *policy* is a document (written in the Access Policy Language) that acts as a container for one or more statements.

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You added the following statements. Click the button below to Generate a policy.

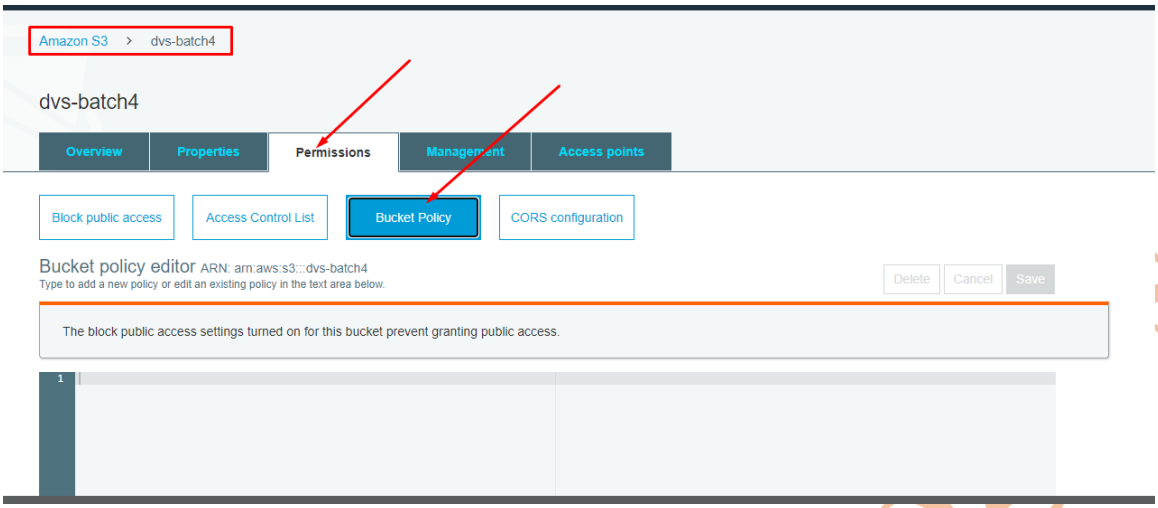
Principal(s)	Effect	Action	Resource	Conditions
• arn:aws:iam::907814406801:user/somesh	Allow	• s3:DeleteObject	arn:aws:s3:::dvs-batch4/*	*None*

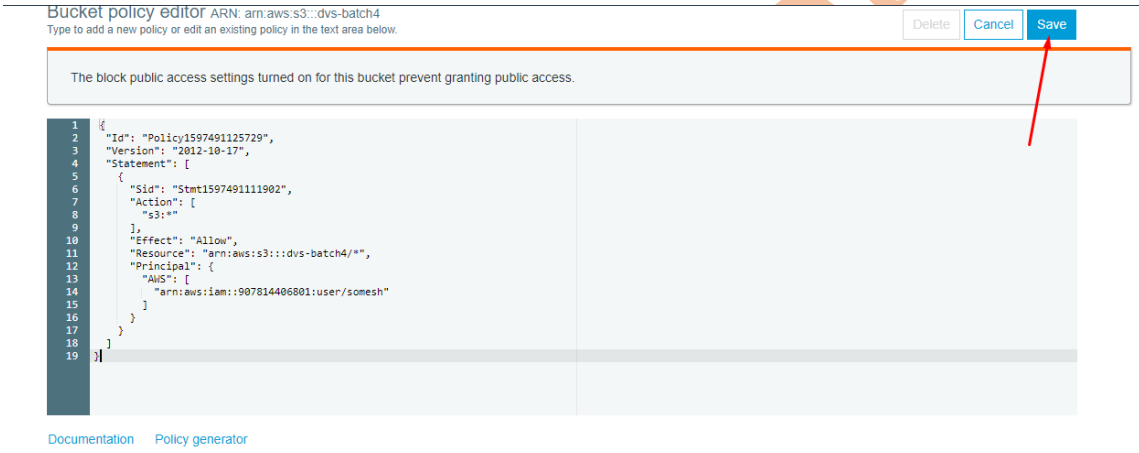
Step 3: Generate Policy

A *policy* is a document (written in the Access Policy Language) that acts as a container for one or more statements.

Generate Policy Start Over

```
{
  "Id": "Policy1597491125729",
  "Version": "2012-10-17",
  "Statement": [
    {
      "Sid": "Stmt1597491111902",
      "Action": [
        "s3:*"
      ],
      "Effect": "Allow",
      "Resource": "arn:aws:s3:::dvs-batch4/*",
      "Principal": {
        "AWS": [
          "arn:aws:iam::907814406801:user/somesh"
        ]
      }
    }
  ]
}
```





Final Testing via Somesh User:

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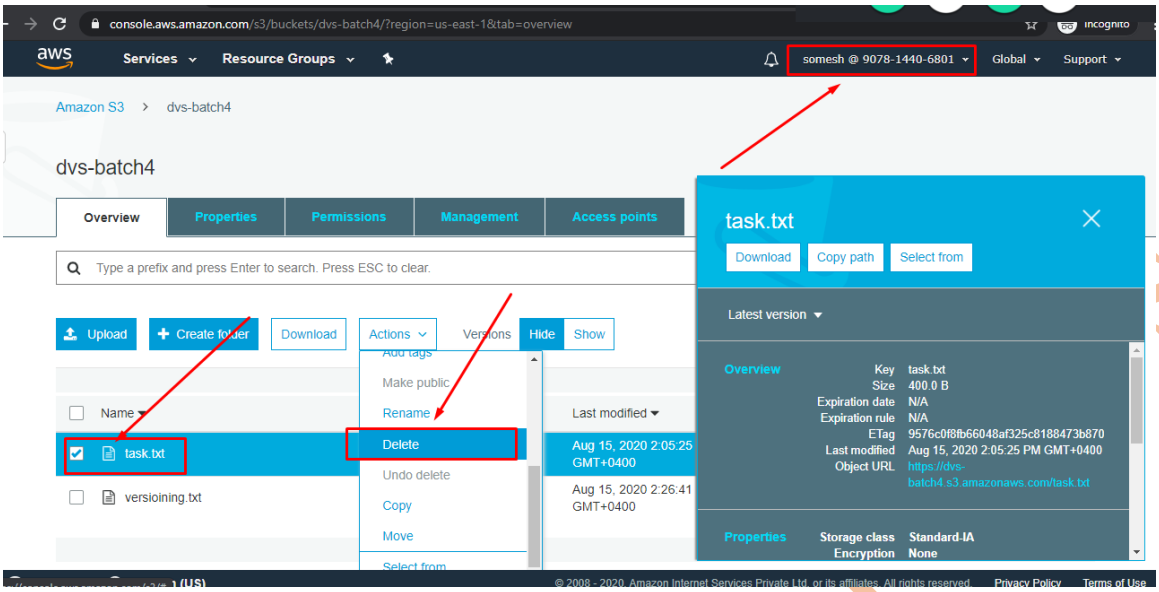
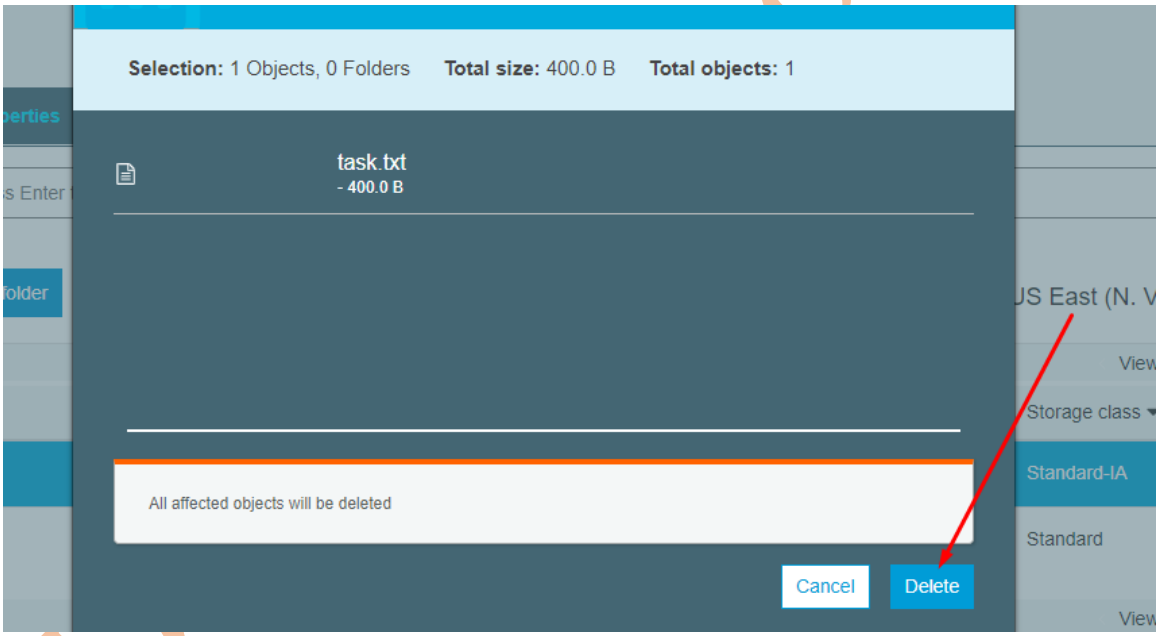
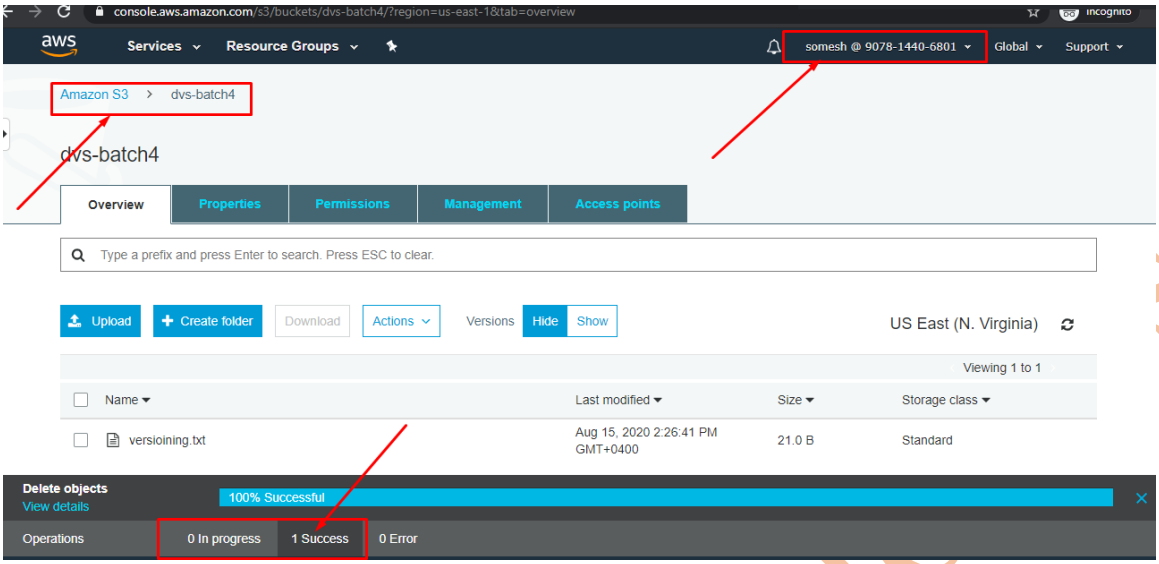
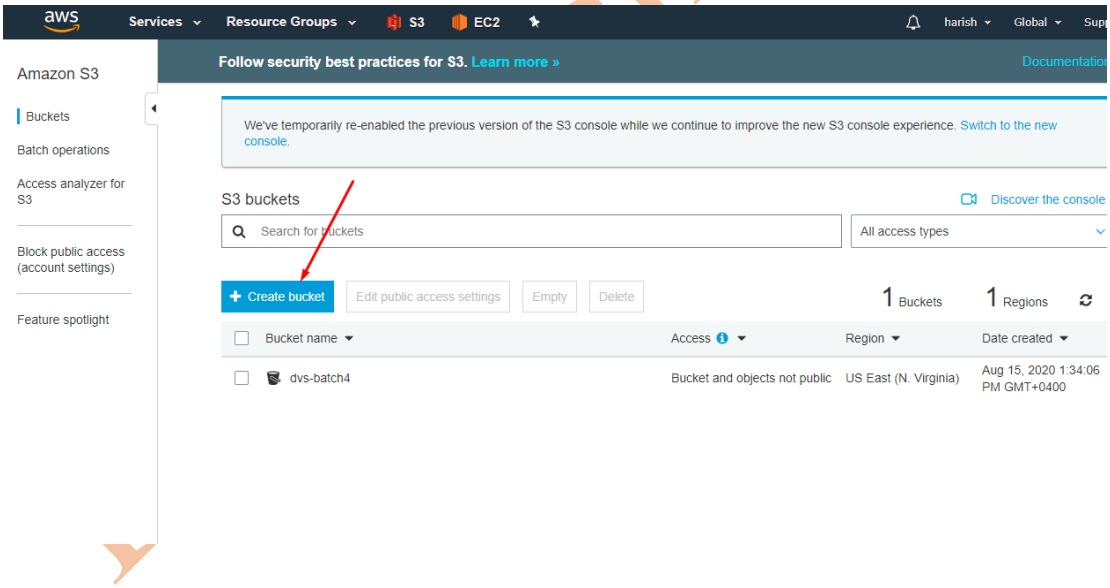






4. Static Web Hosting



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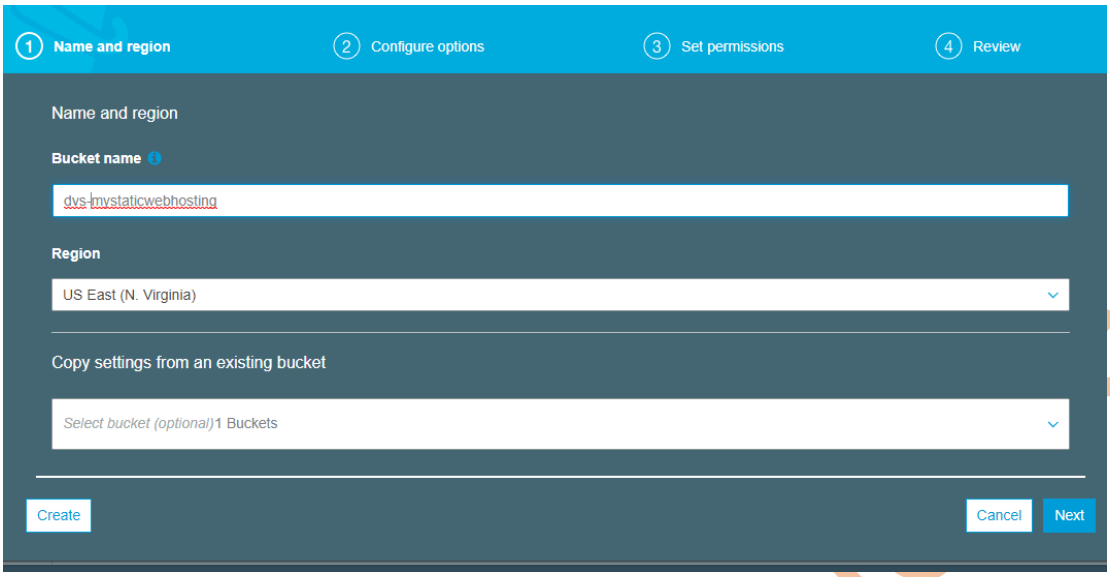

Index.html file content

```
<html>
<h1>Hello All, Welcome To Dvs Devops Class</h1>
</html>
```

error.html file content

```
<html>
<h1>Hello All This is the error page</h1>
</html>
```

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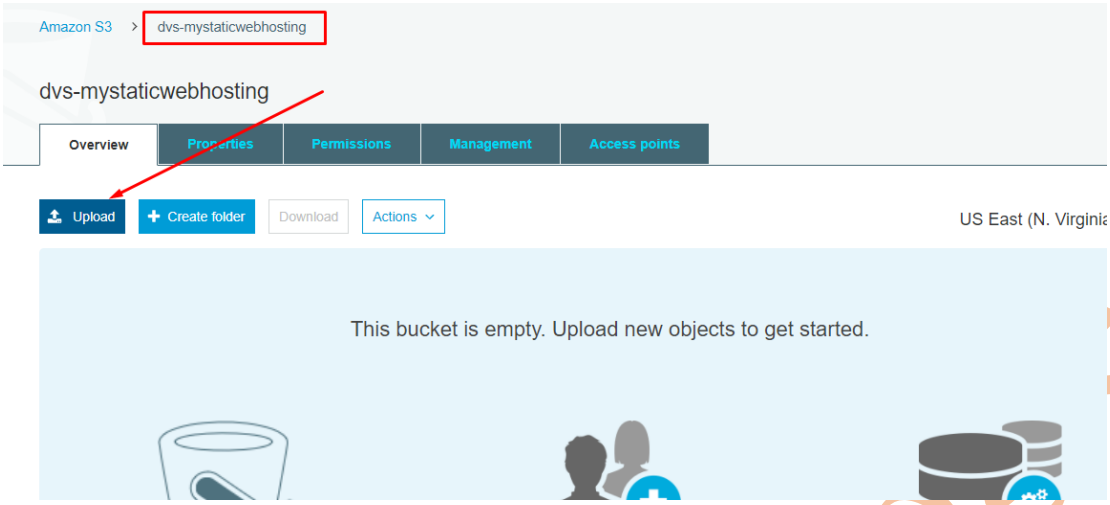

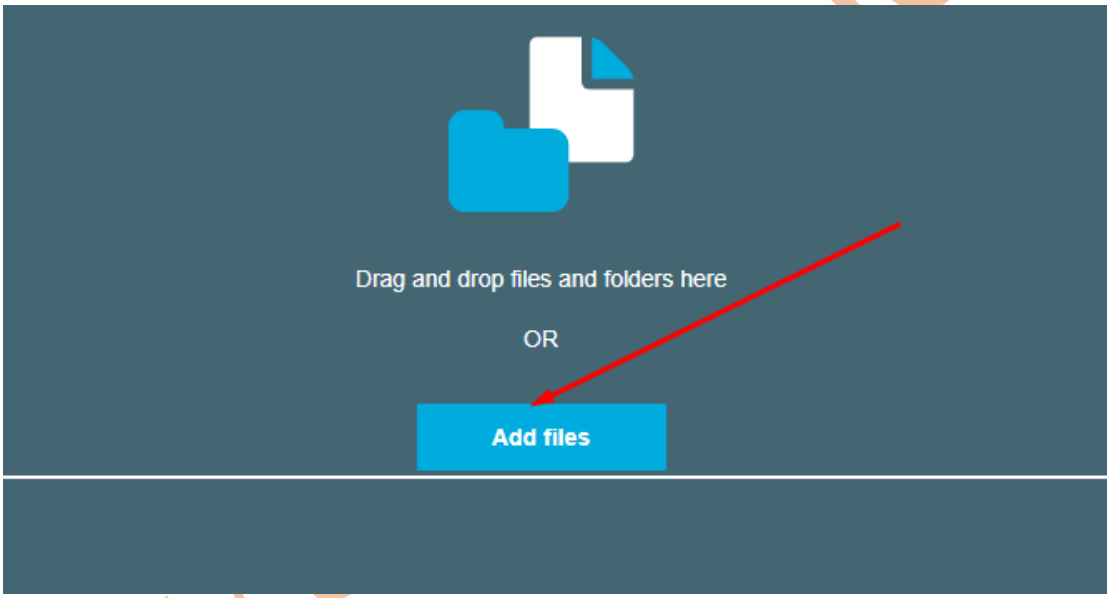

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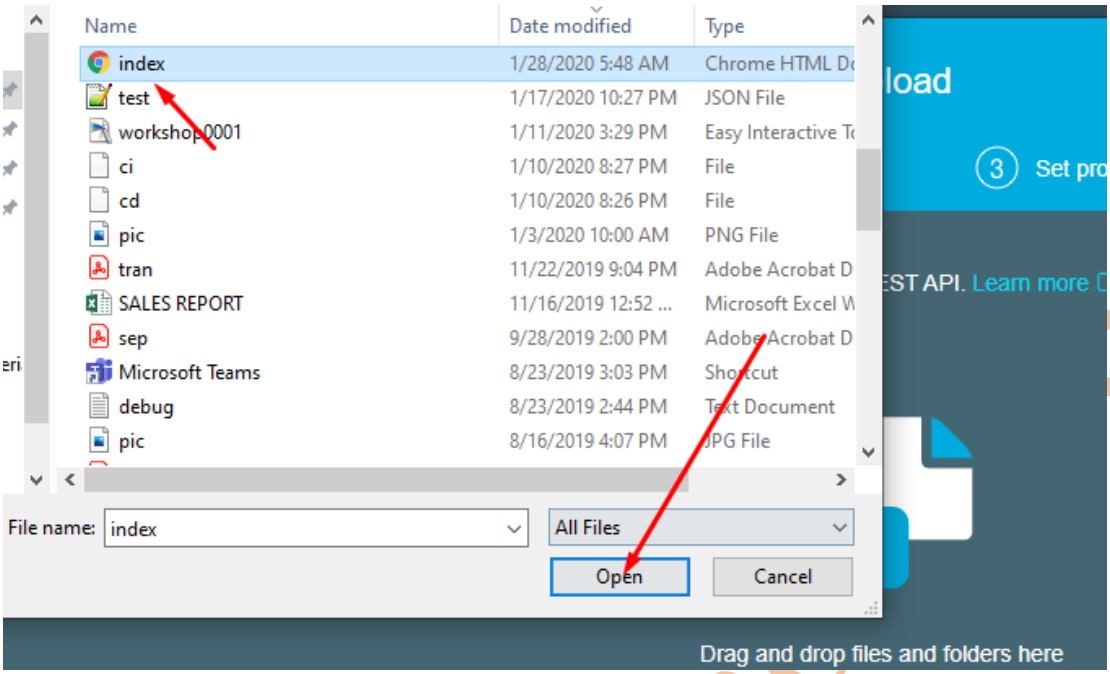
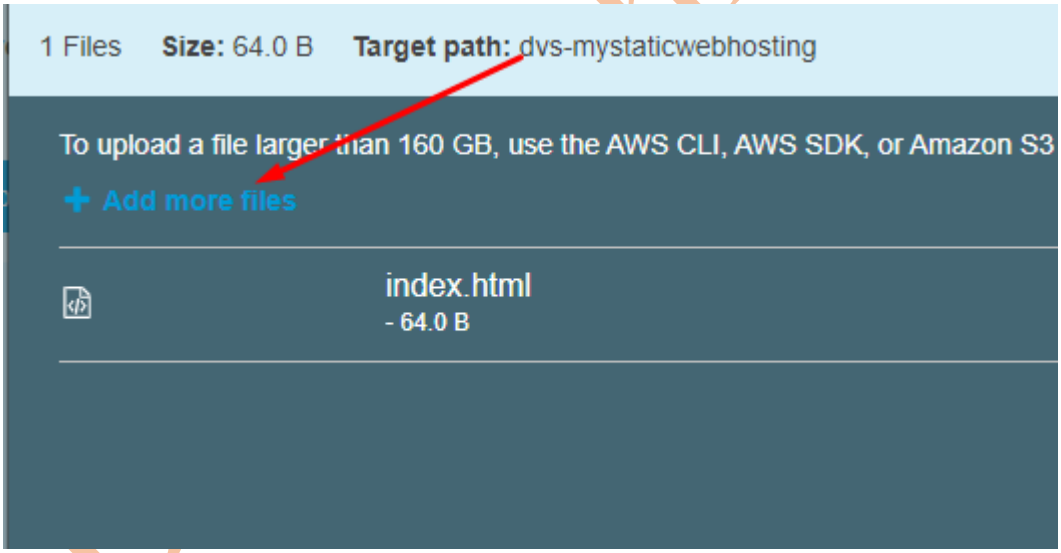
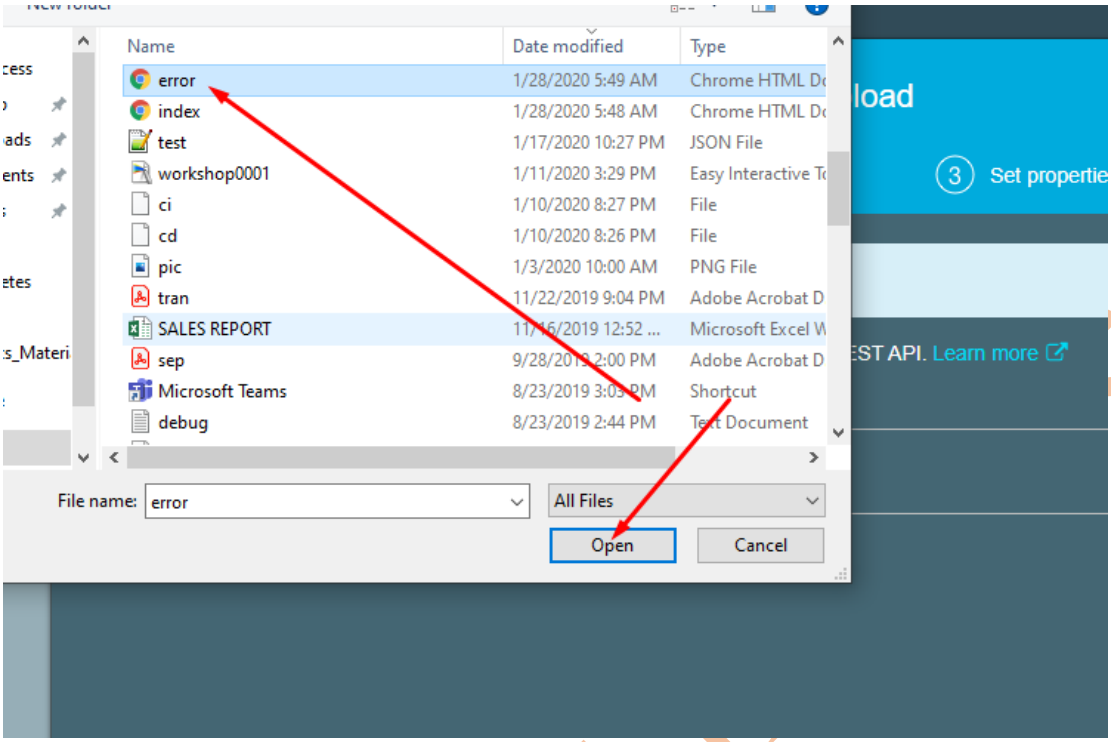
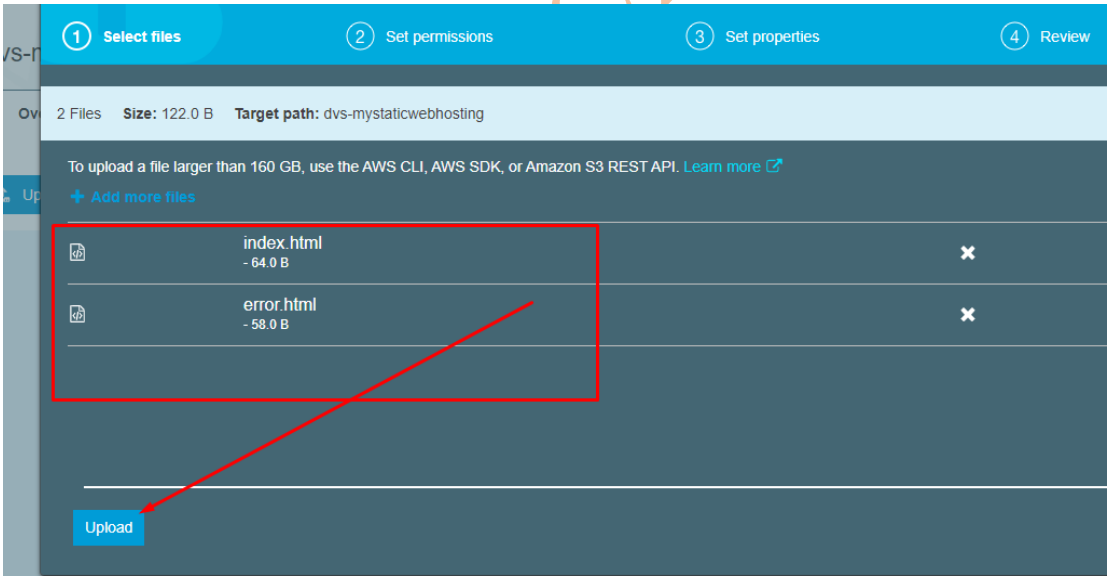


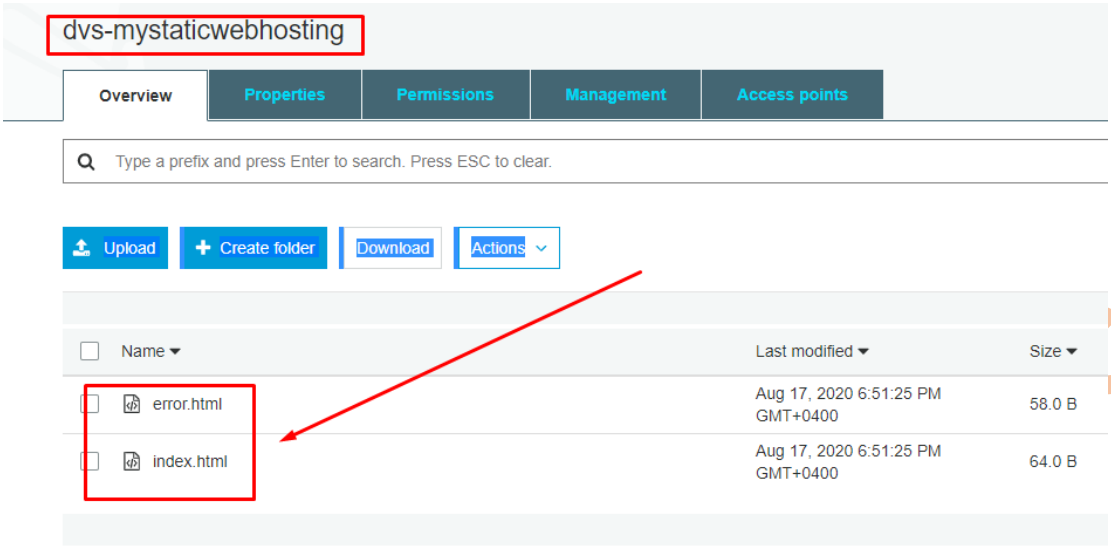


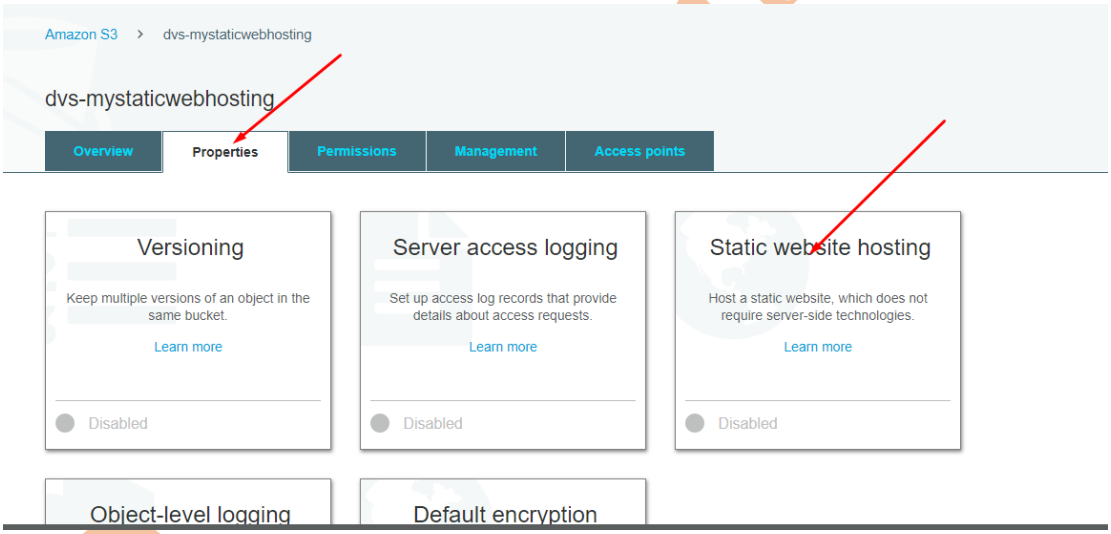
DVS Technologies Aws & Devops



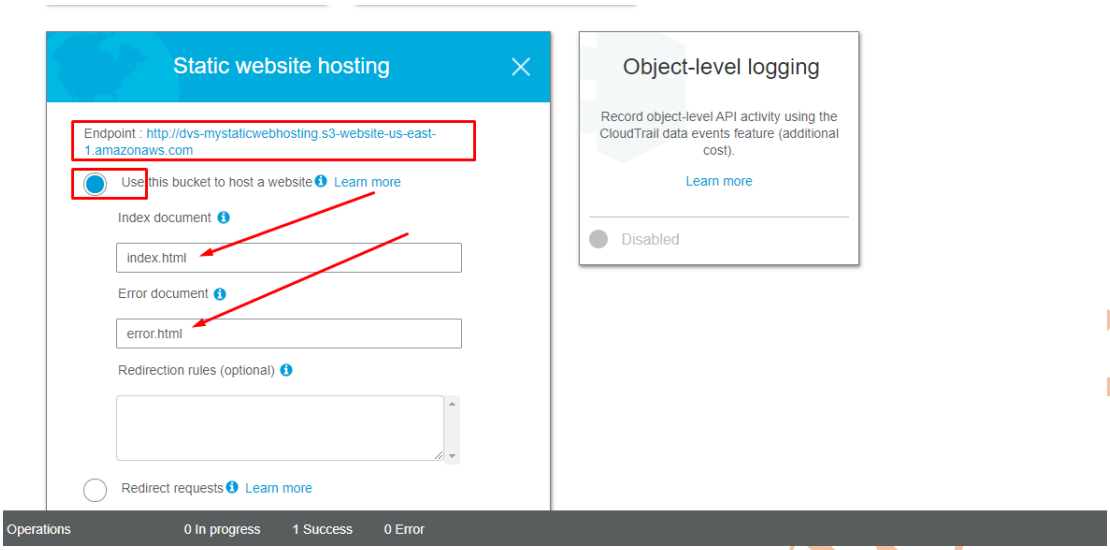


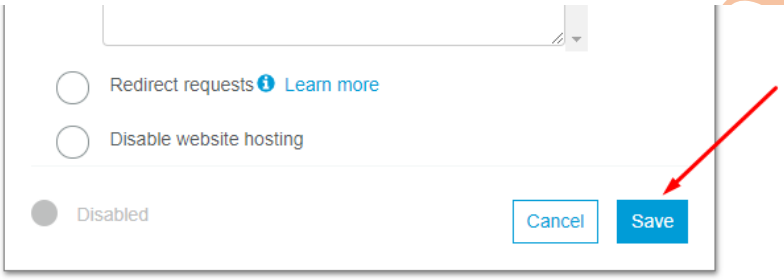
DVS Technologies Aws & Devops

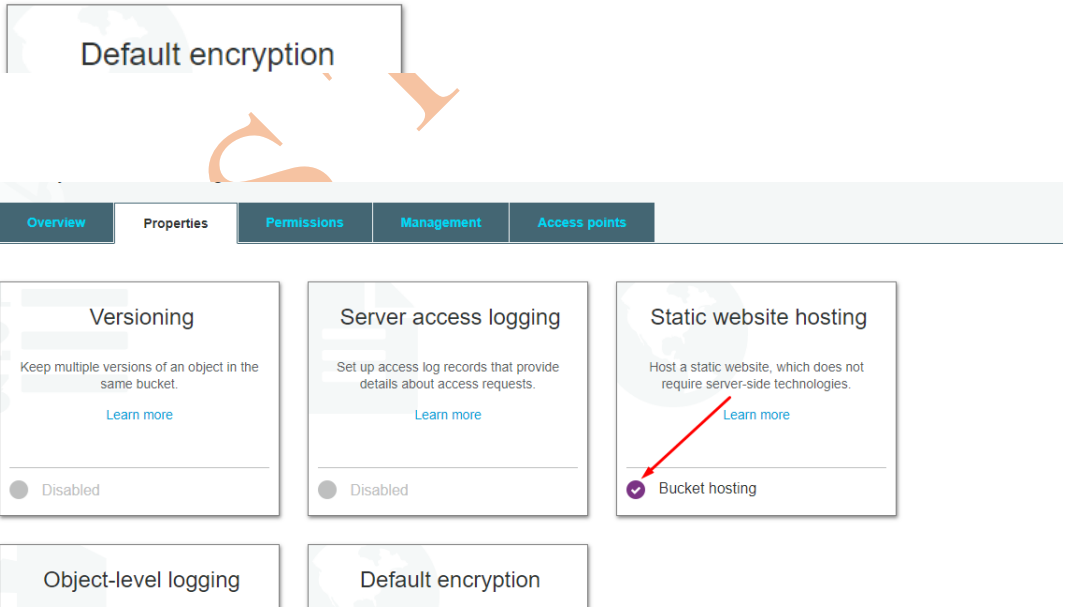


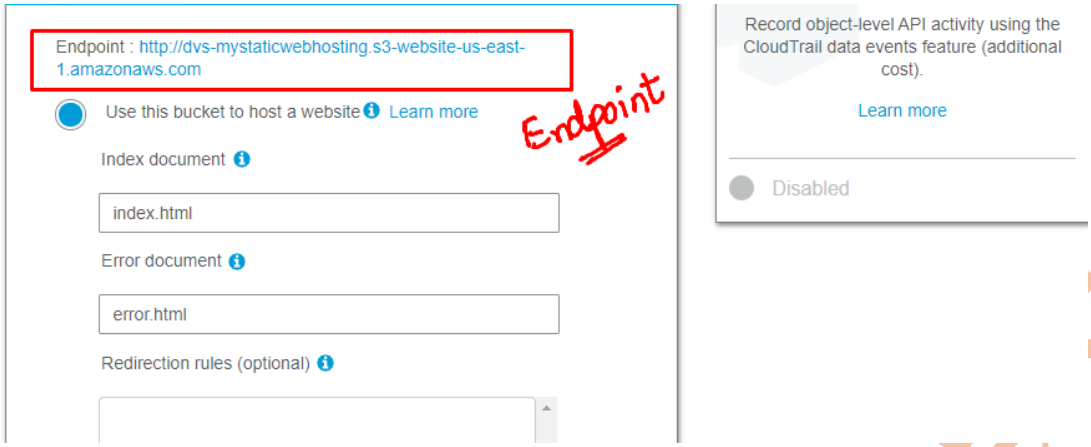


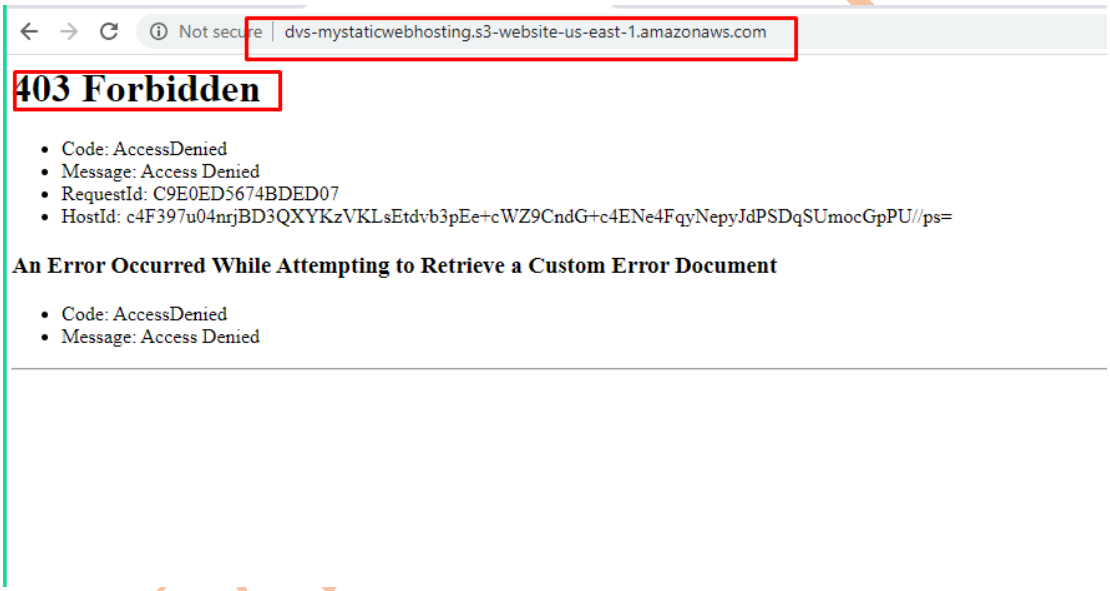
DVS Technologies Aws & Devops



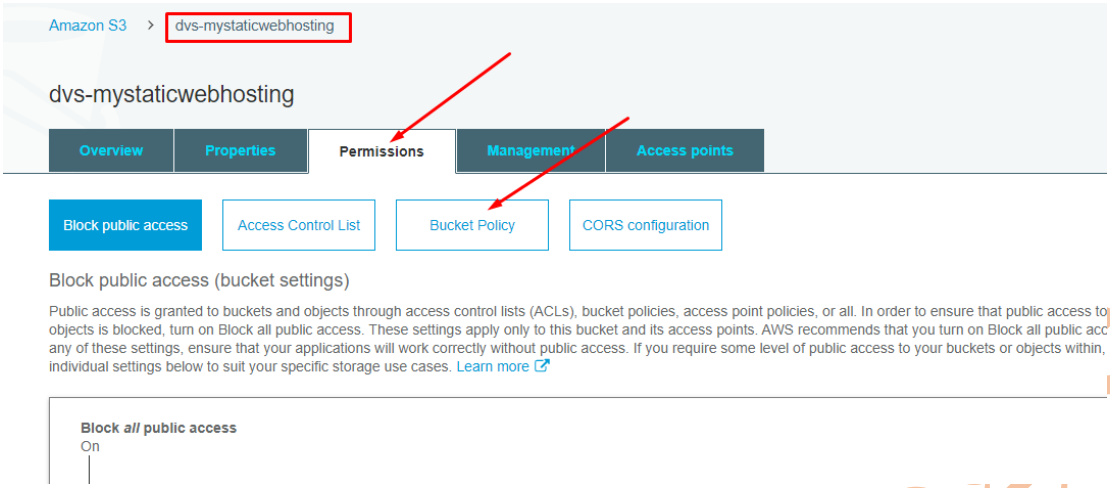




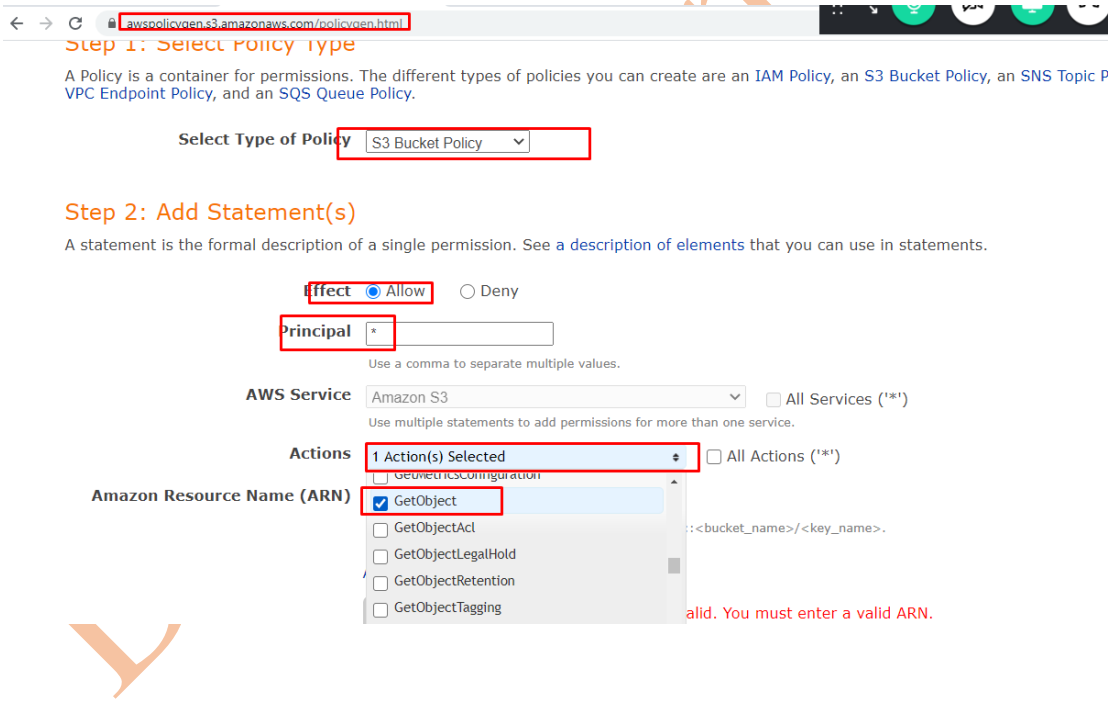




You have to provide your S3 bucket policy for getting the objects inside the bucket.



Generating S3 policy:



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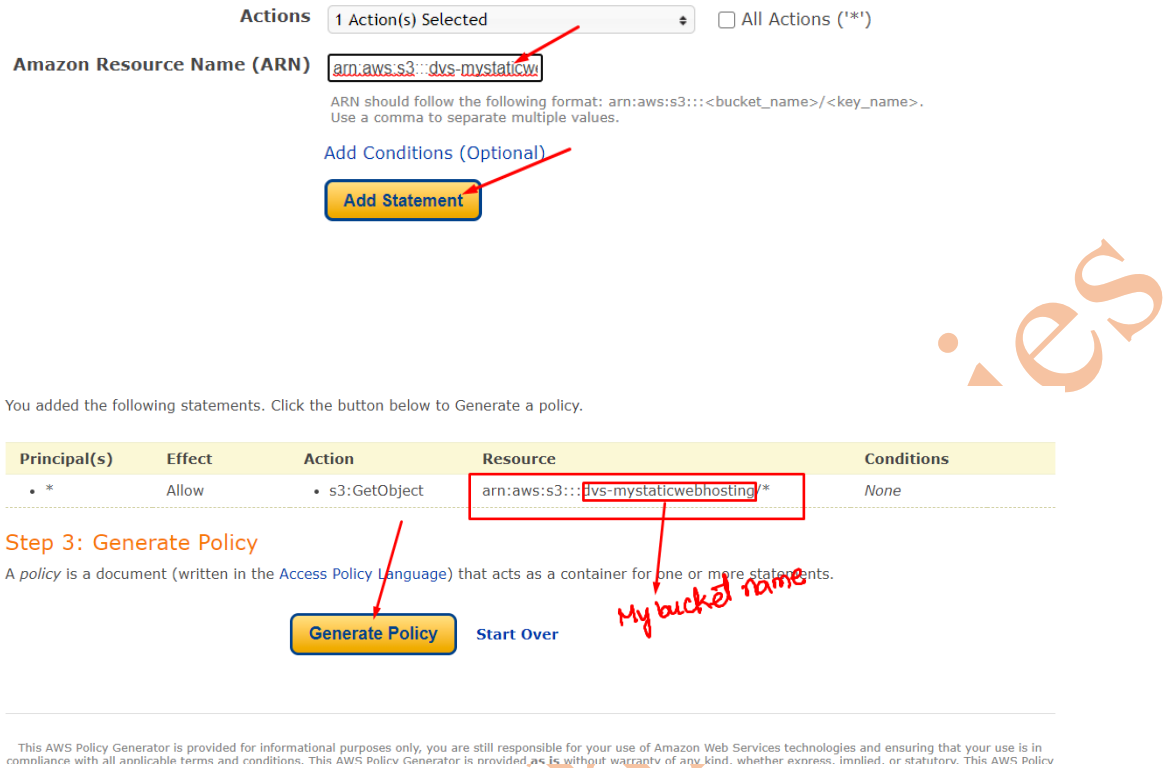
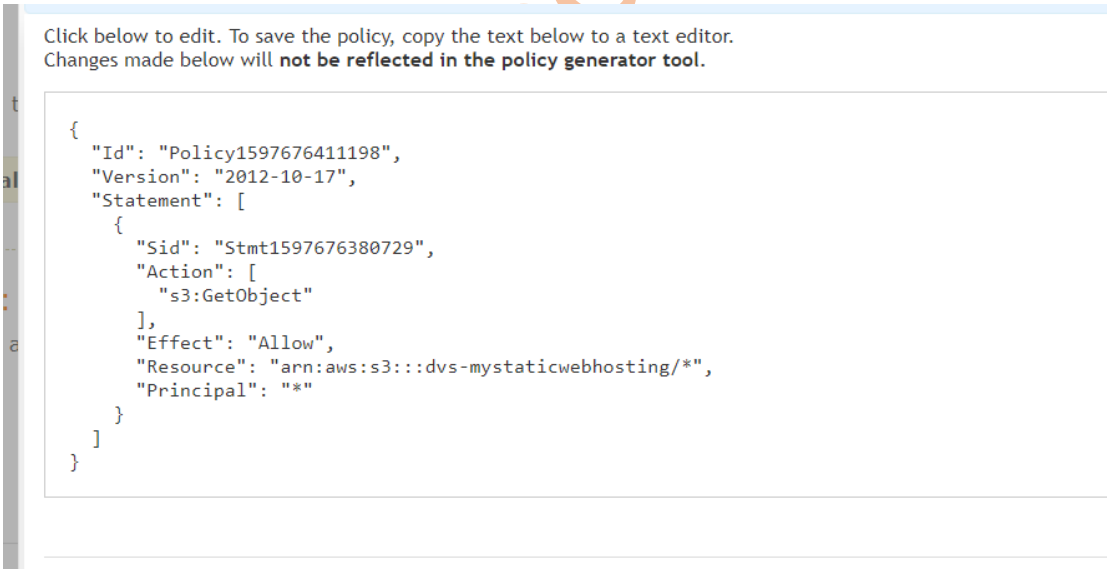
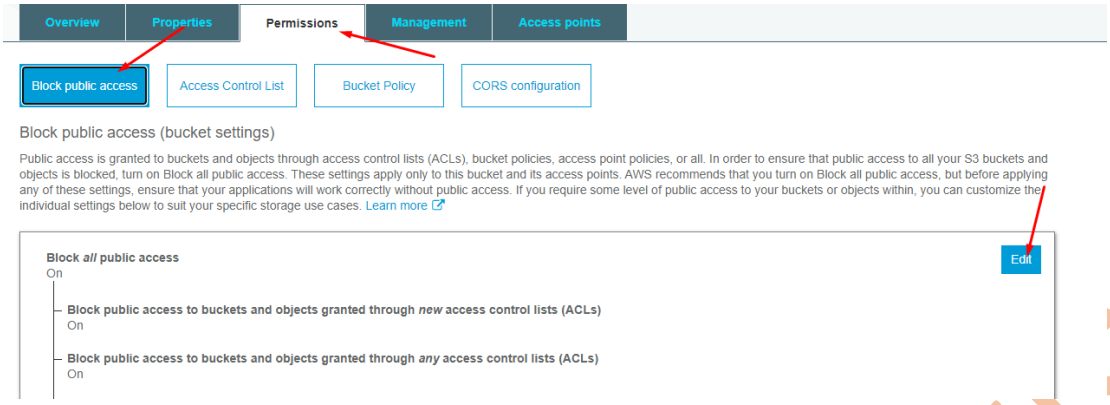
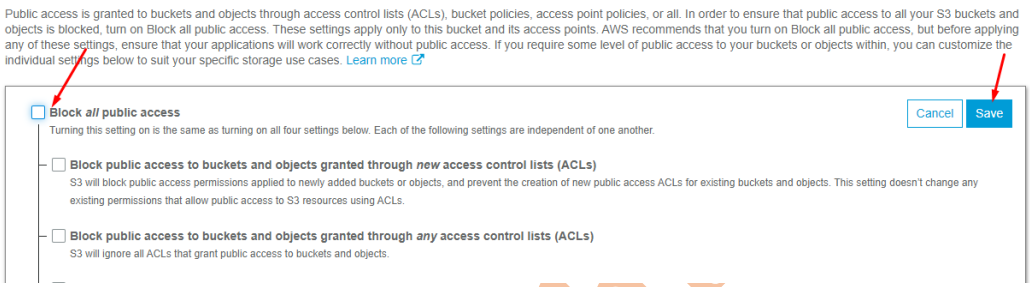
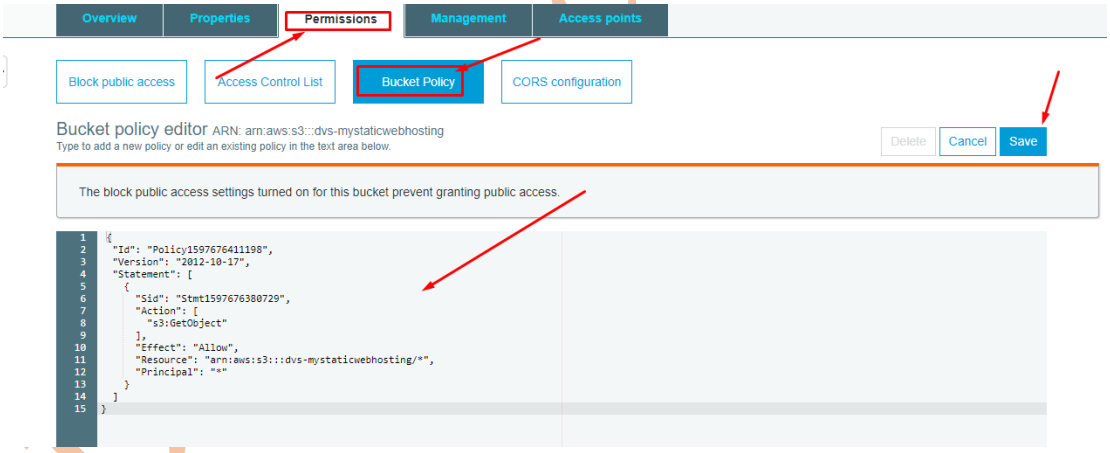


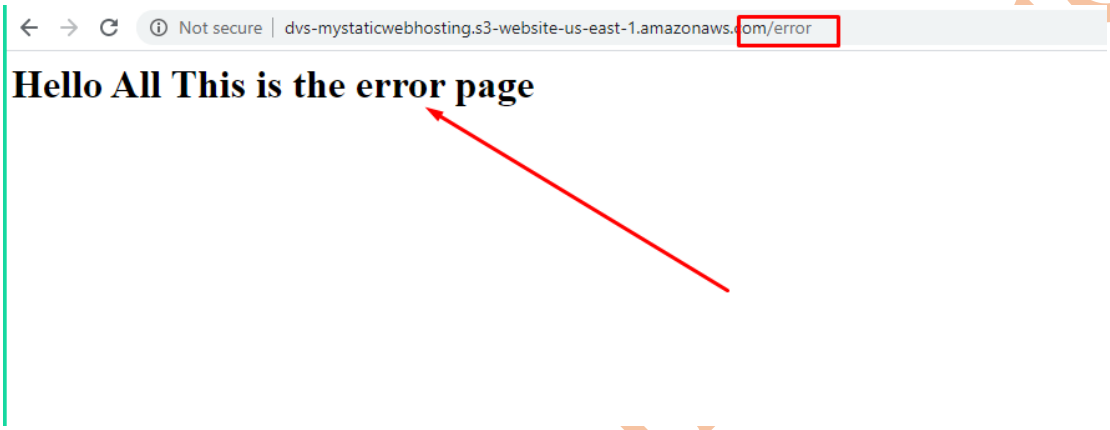


DVS Technologies Aws & Devops



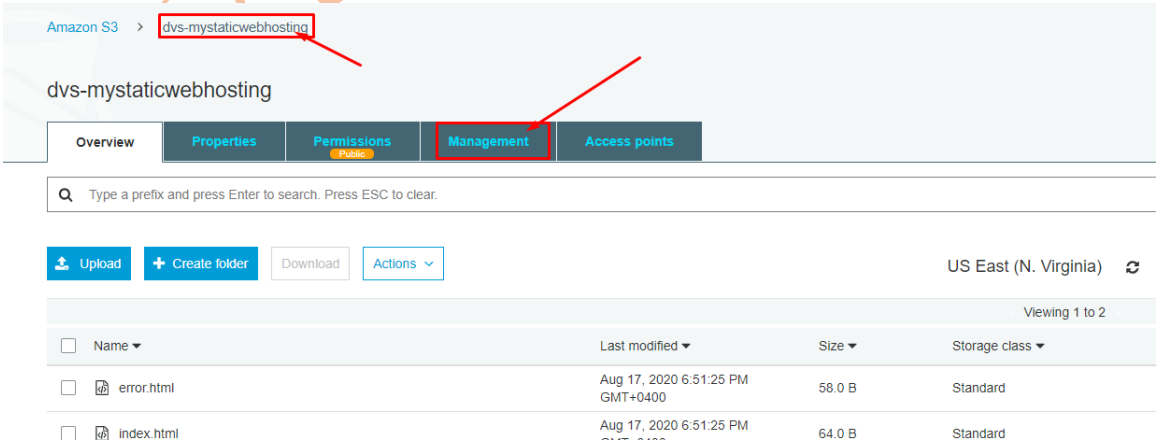






5. Object Life Cycle Management

Configuring Object Life Cycle Management for the S3 bucket, please follow the below steps



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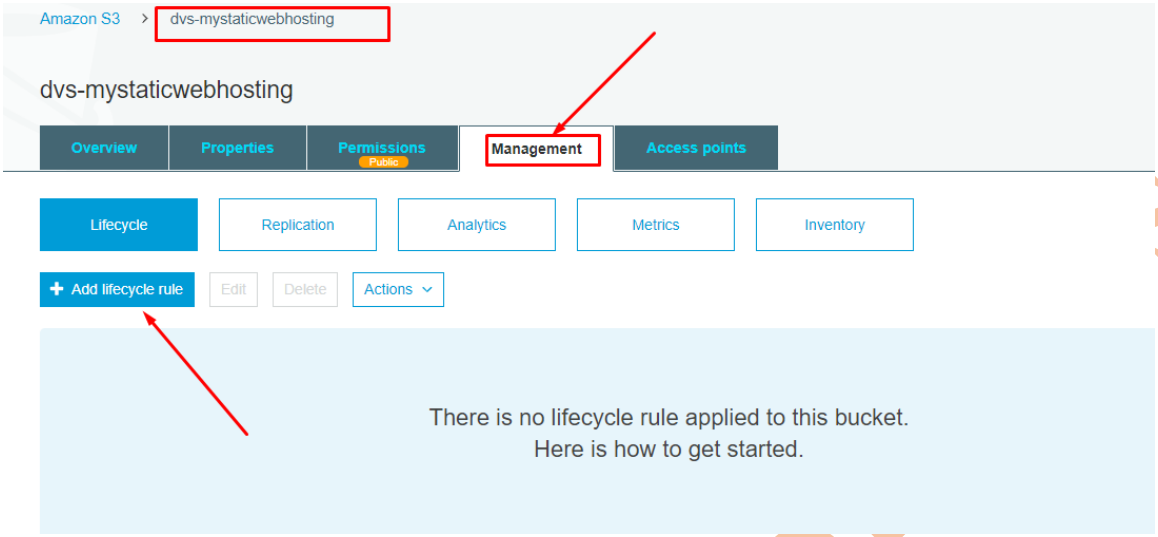
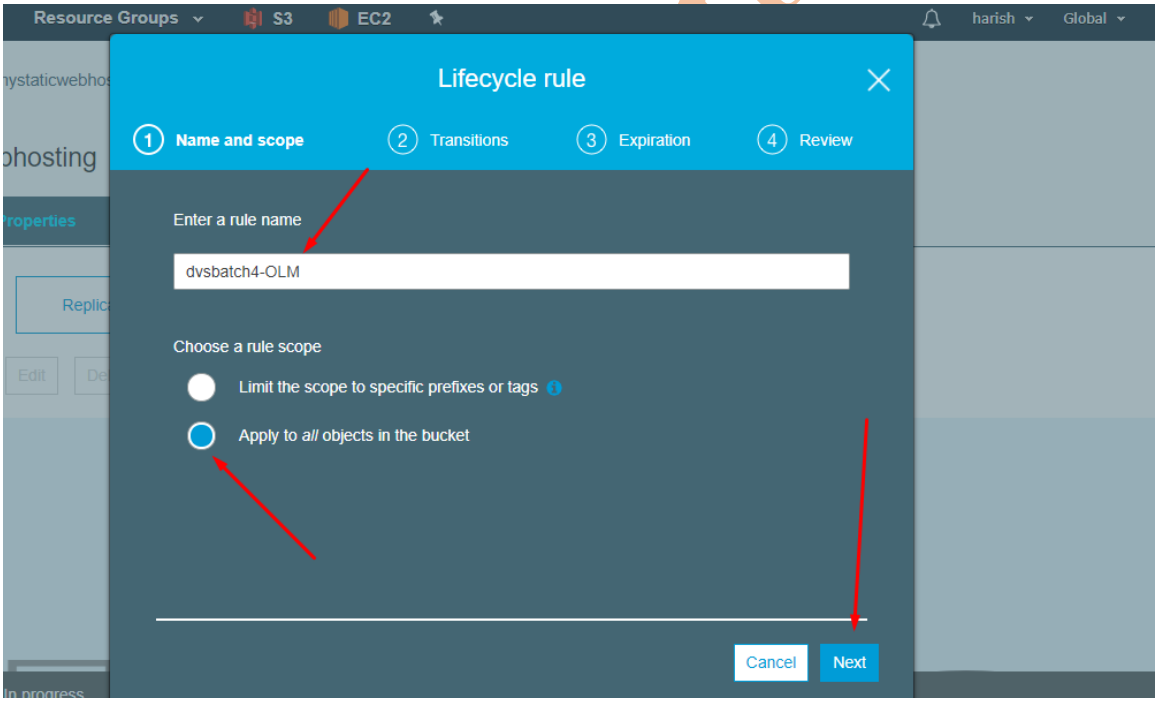
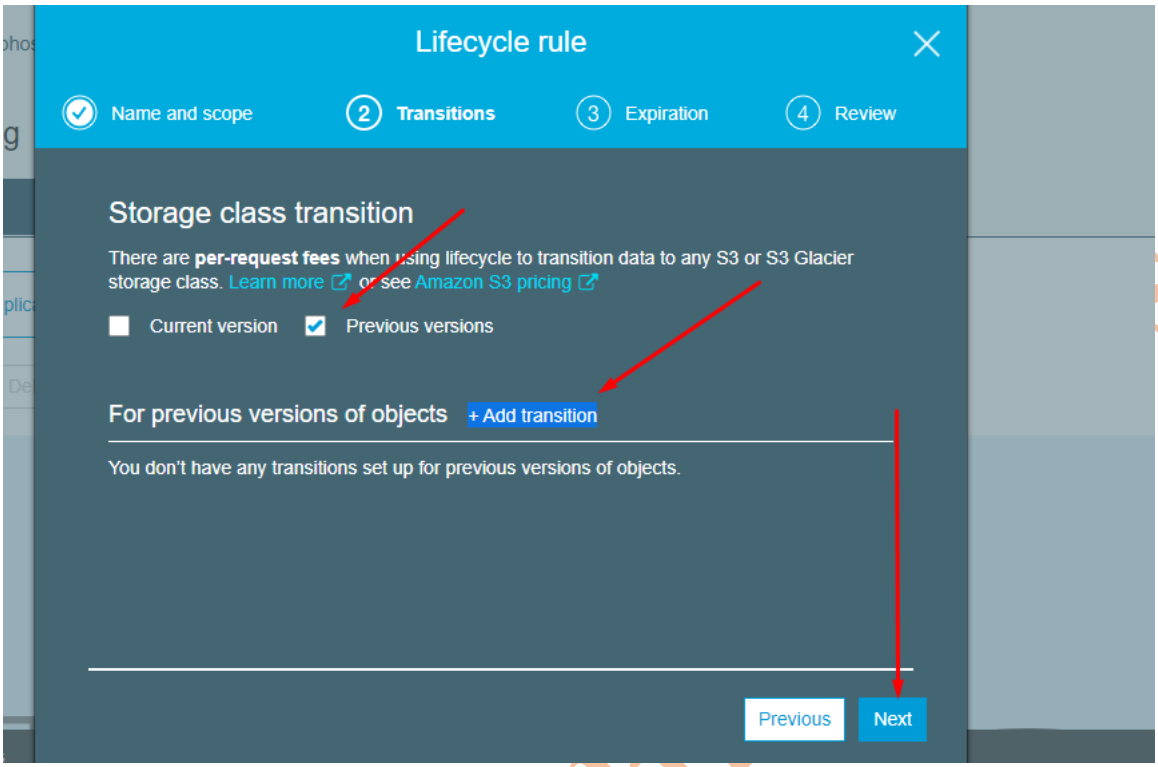
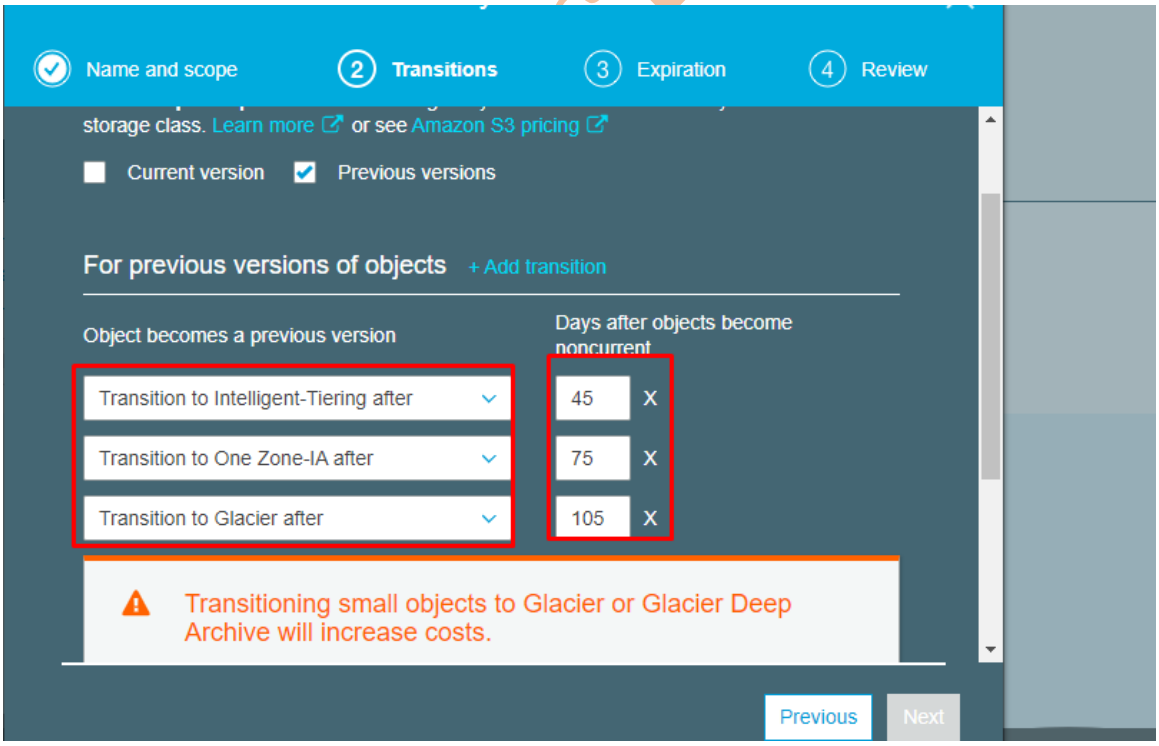


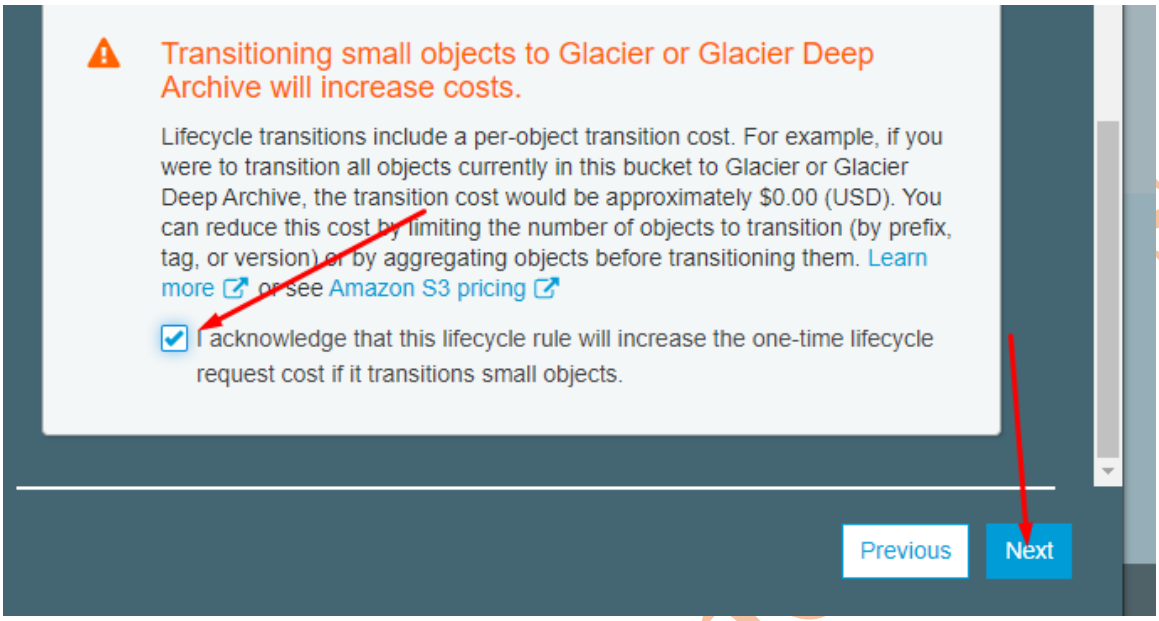


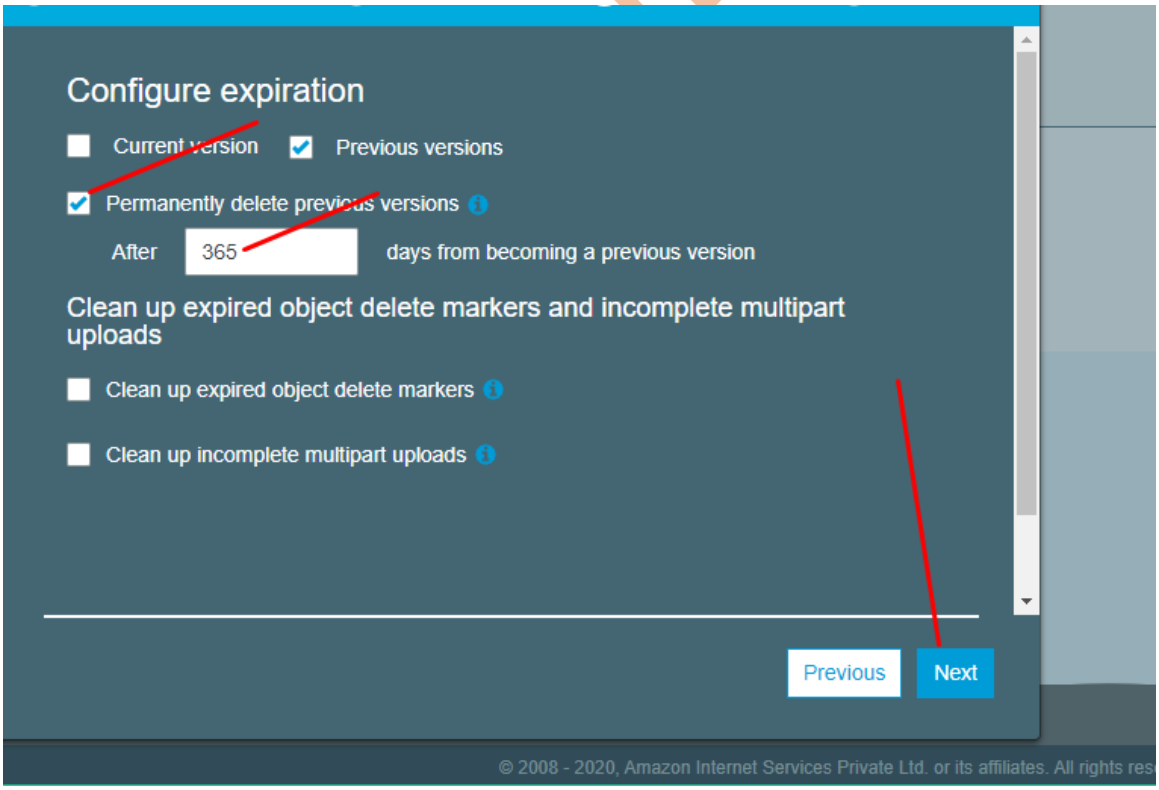
DVS Technologies Aws & Devops

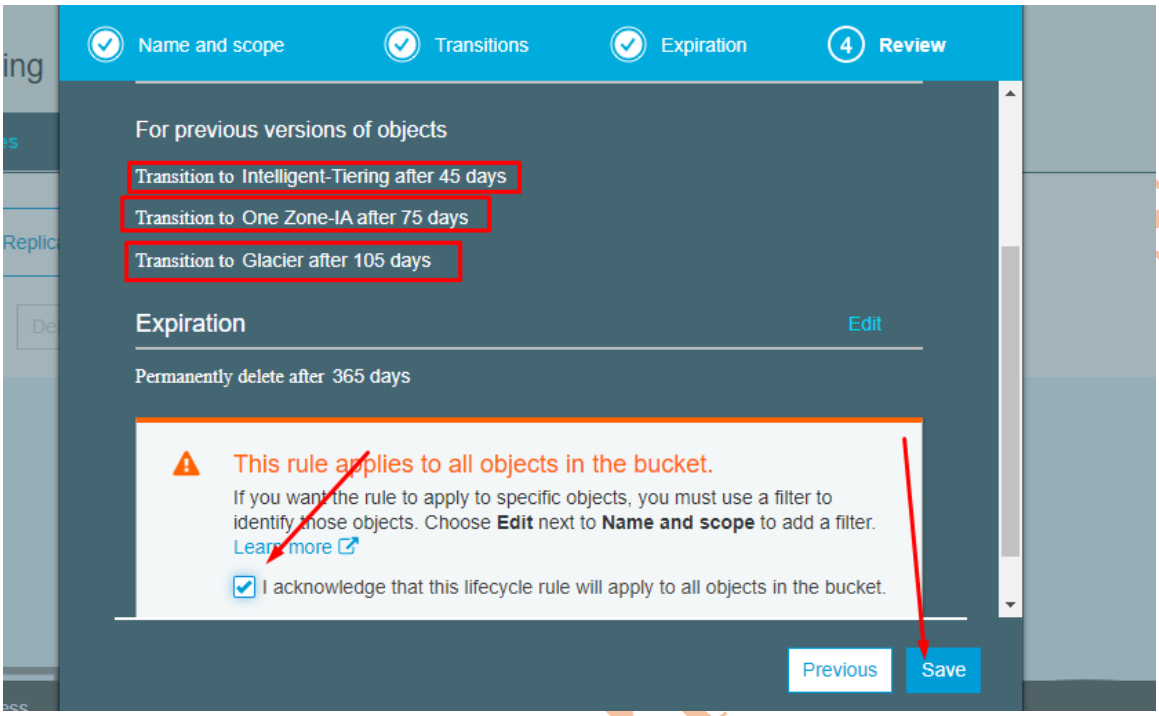


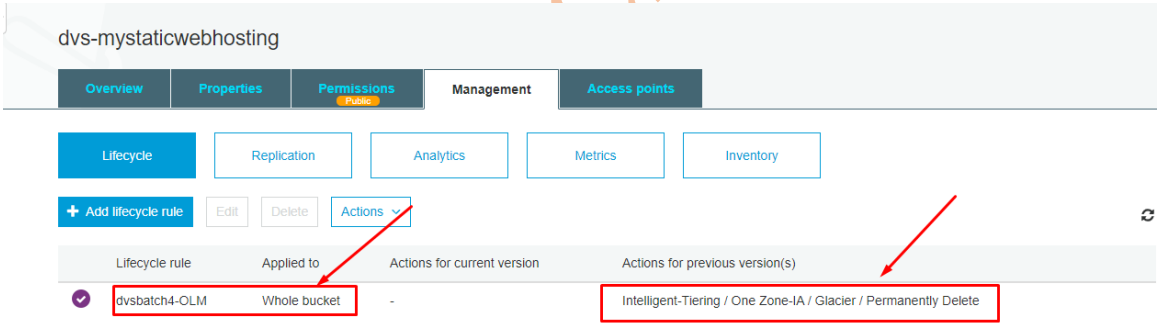


DVS Technologies Aws & Devops



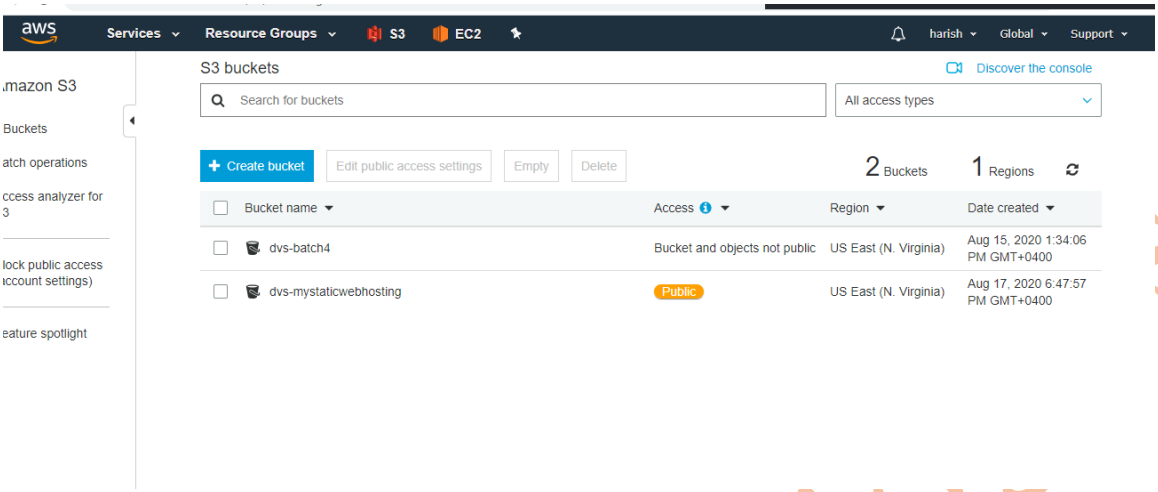




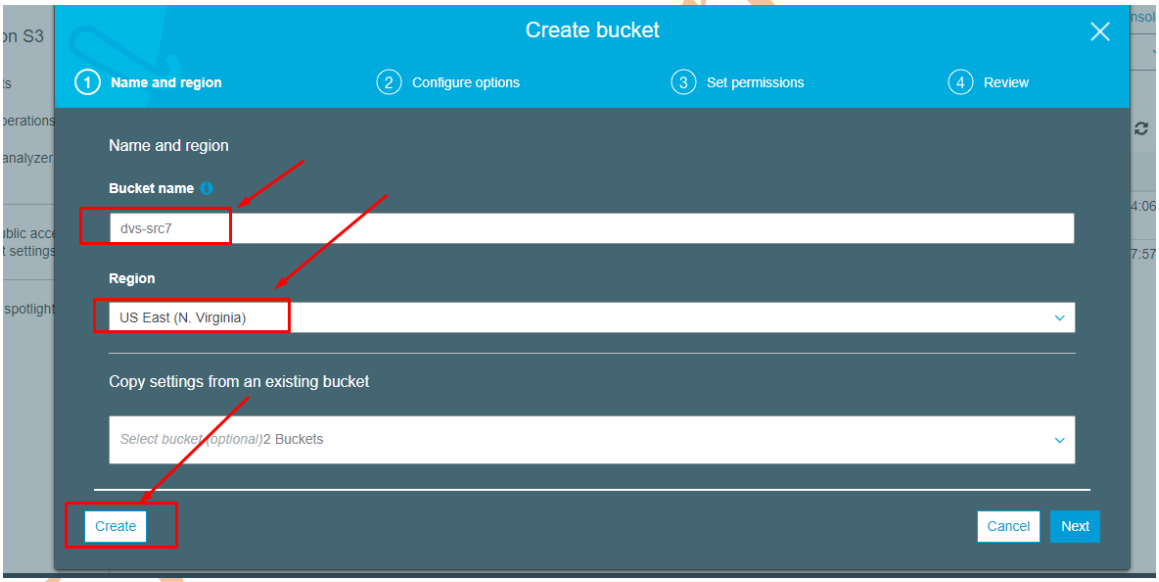


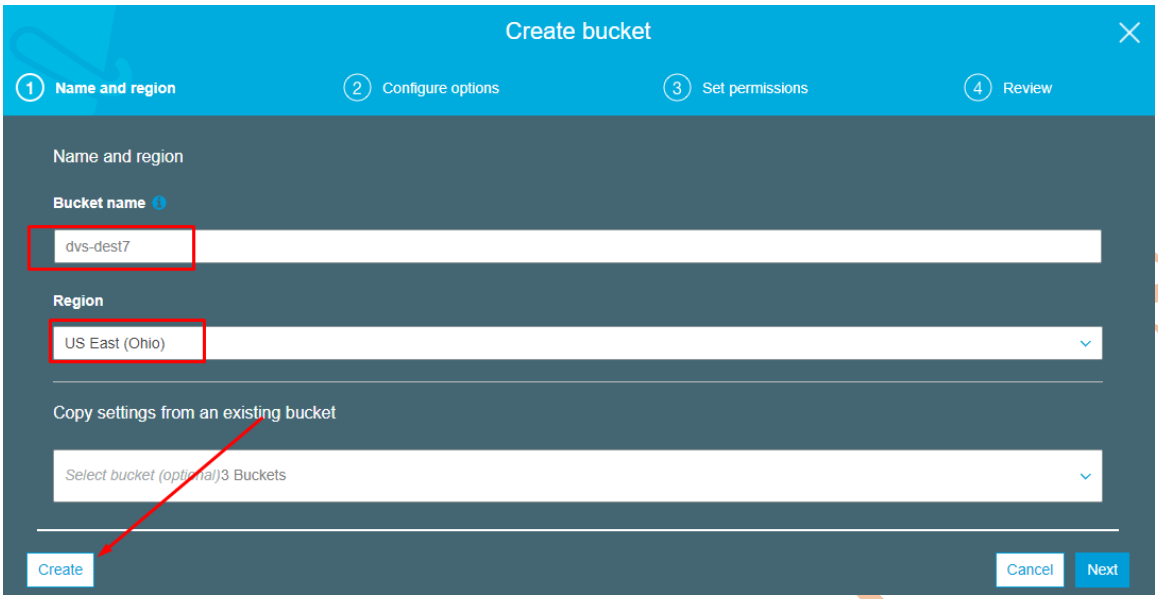
6. Cross Regional Replication

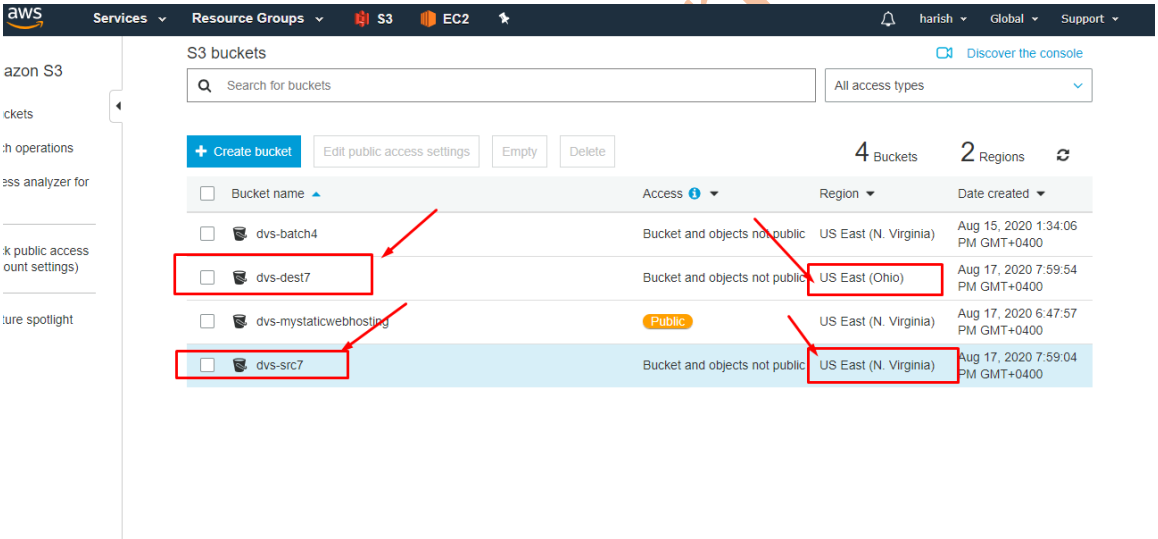
Follow the below process to configure the replication:



Create two buckets







Enable the versioning for both the buckets:

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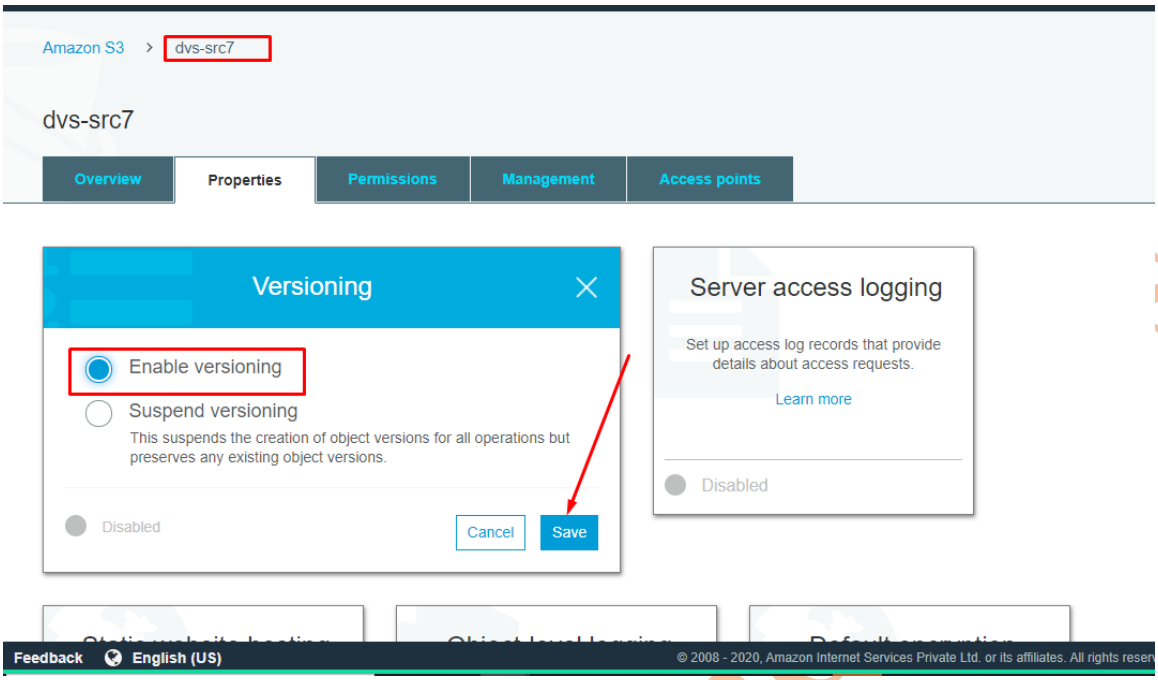
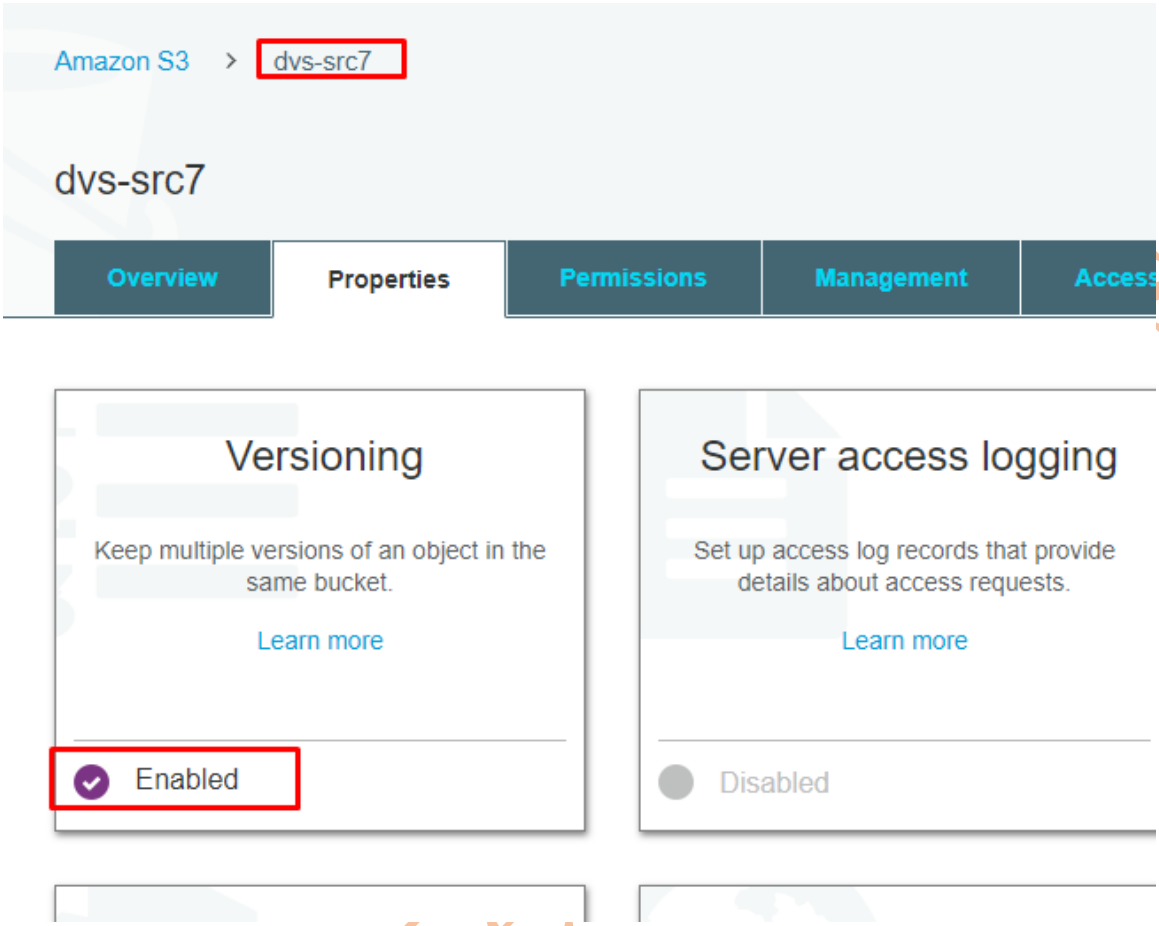
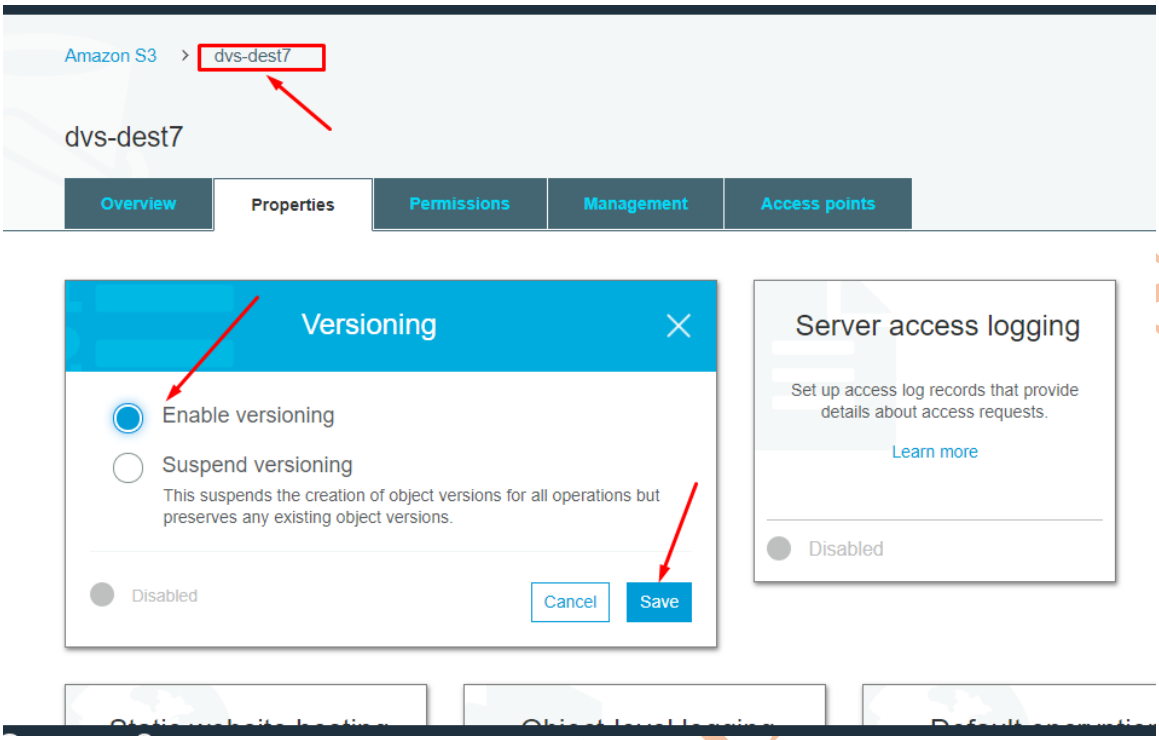
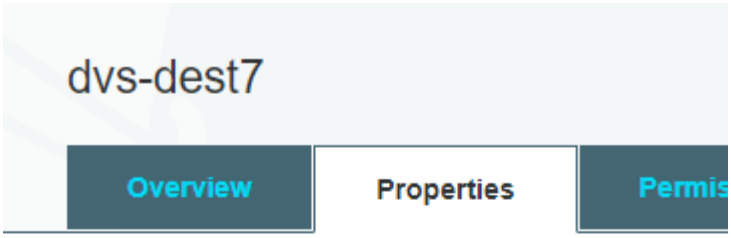


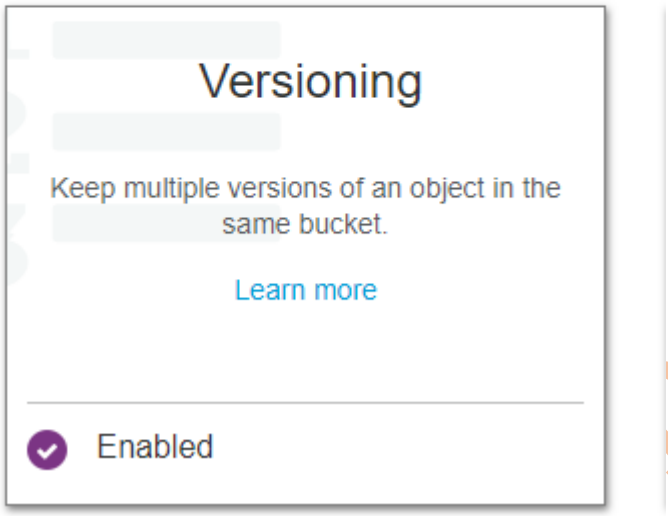
DVS Technologies Aws & Devops



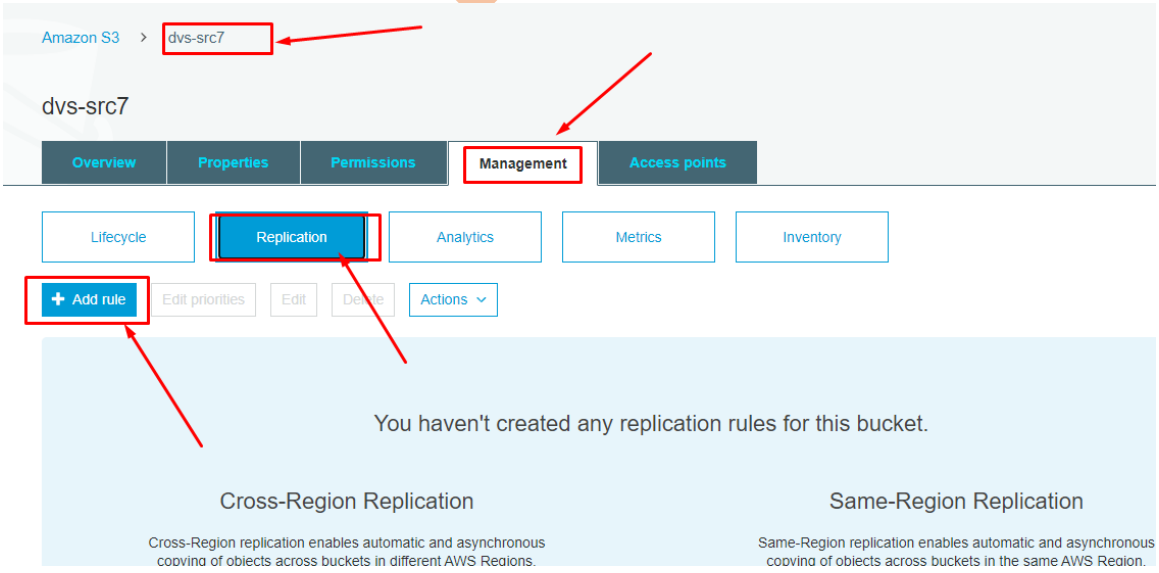
DVS Technologies Aws & Devops



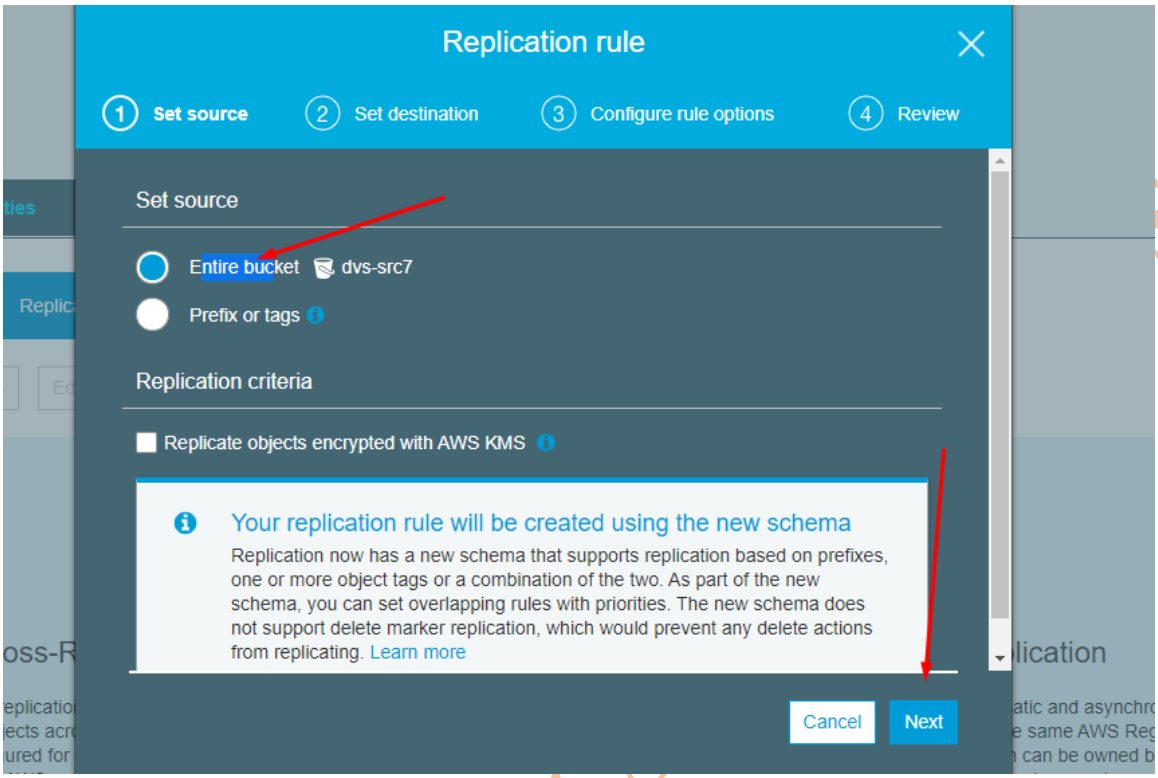




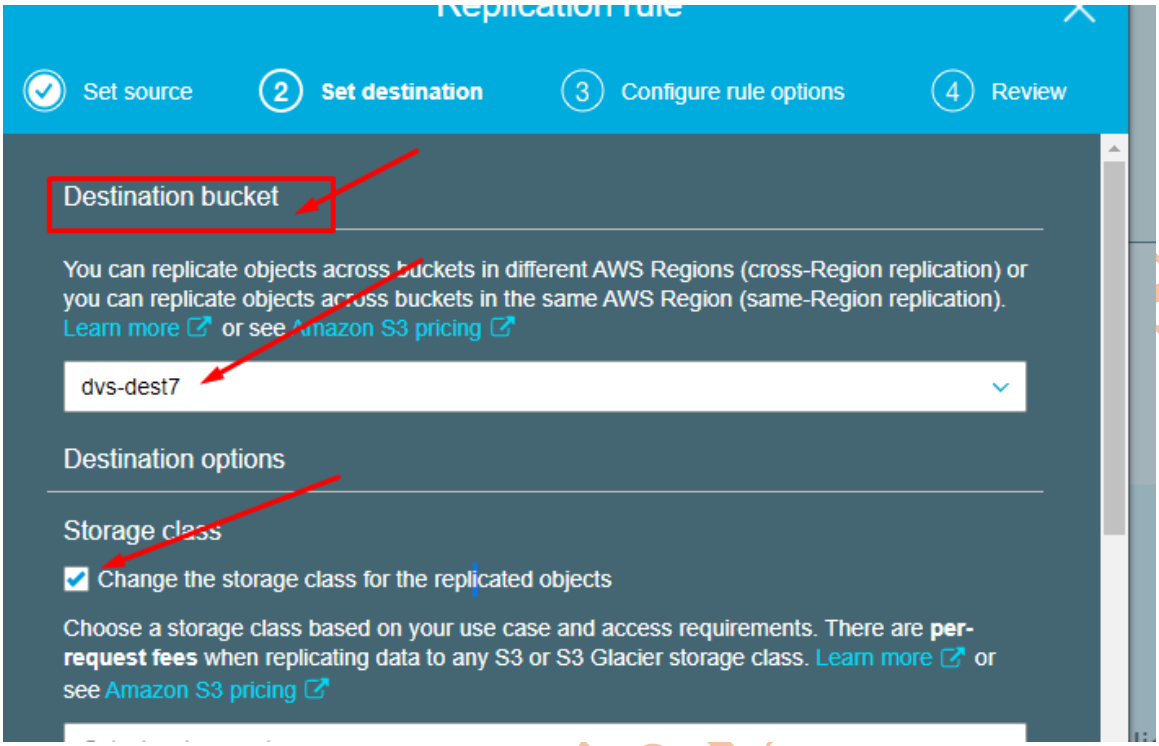
Configuring Cross Region Replication from dvs-src7 --> dvs-dest7 bucket

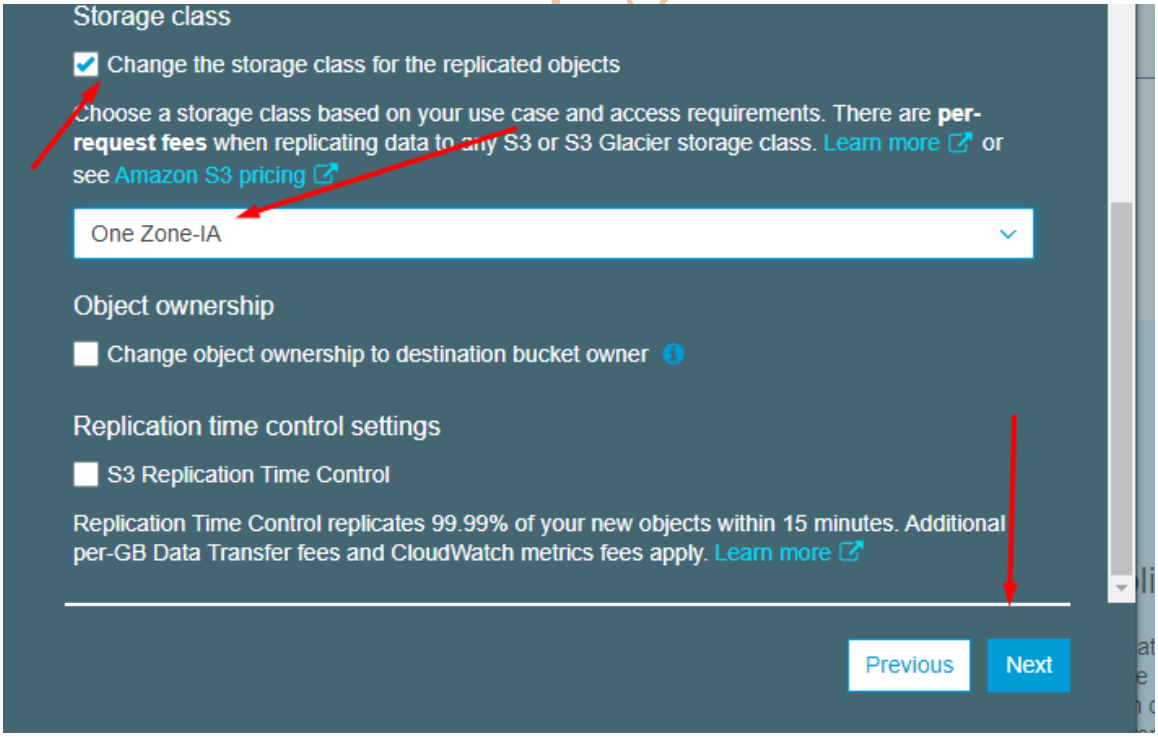


DVS Technologies Aws & Devops



DVS Technologies Aws & Devops





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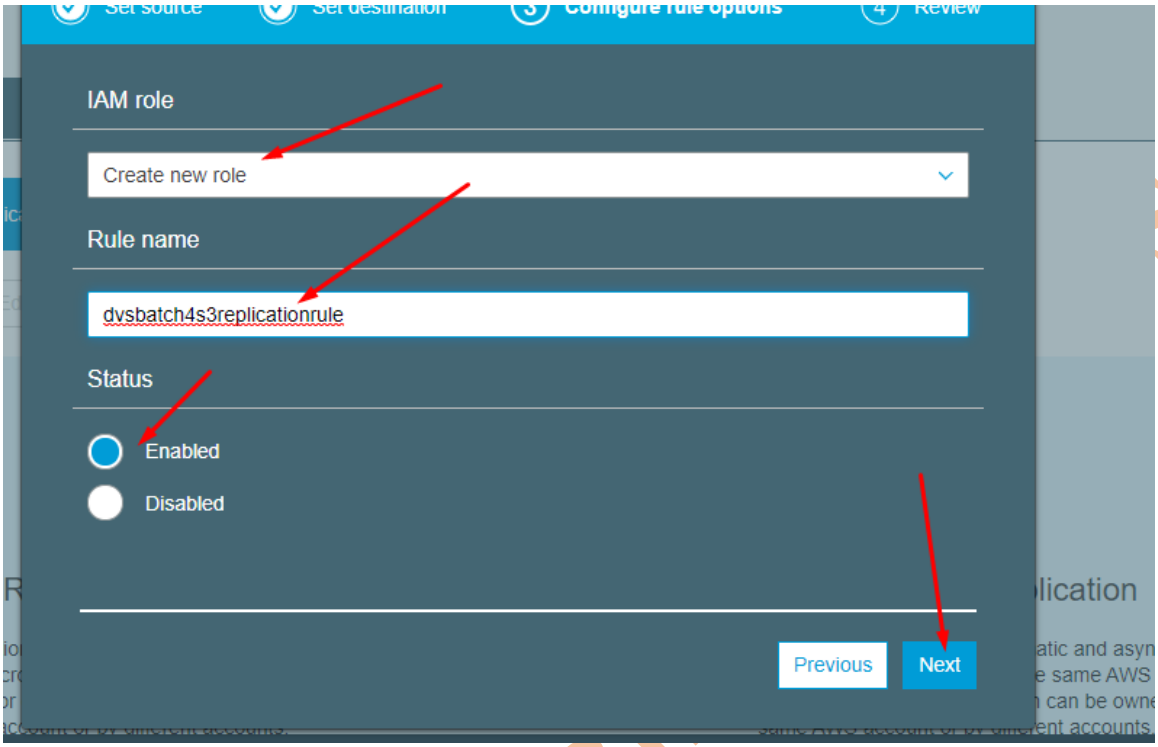

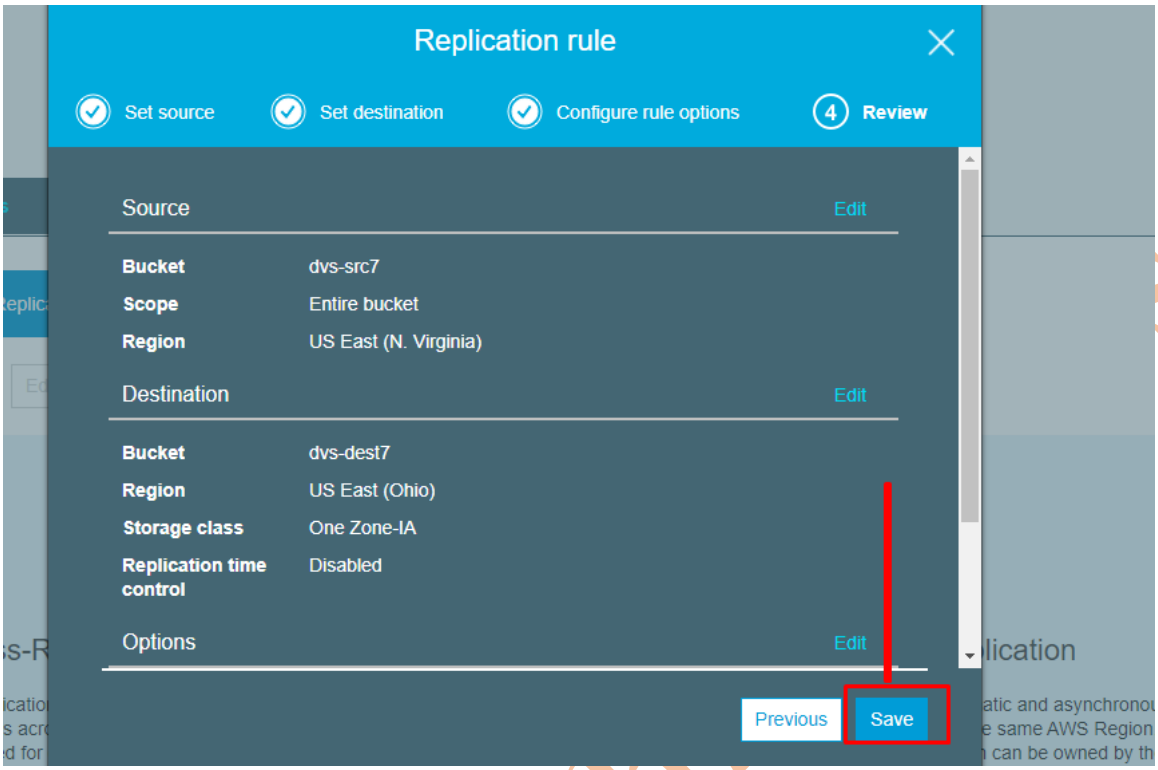

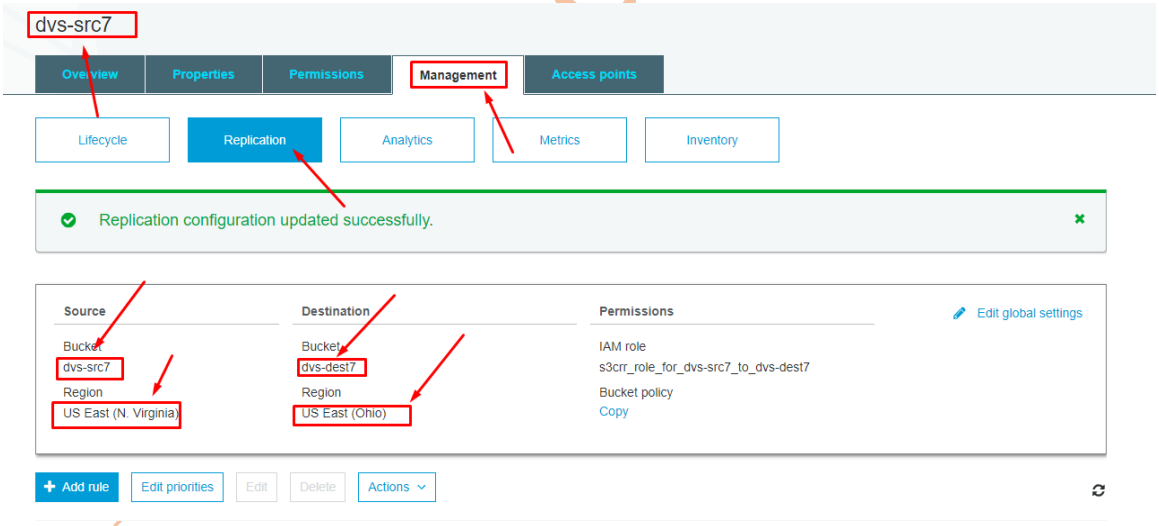

Testing the configuration:

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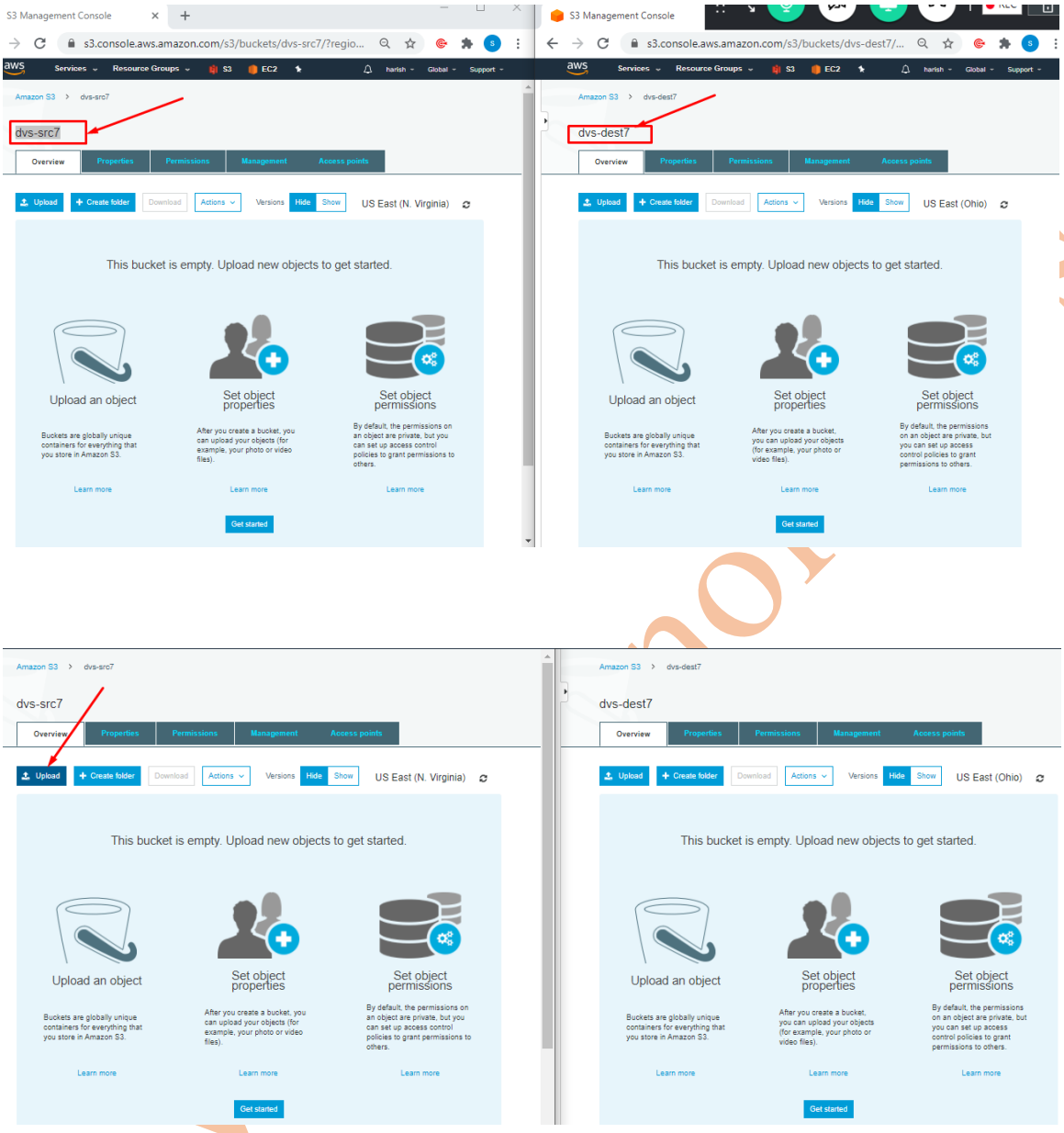

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