Configure S3 Block Public Access

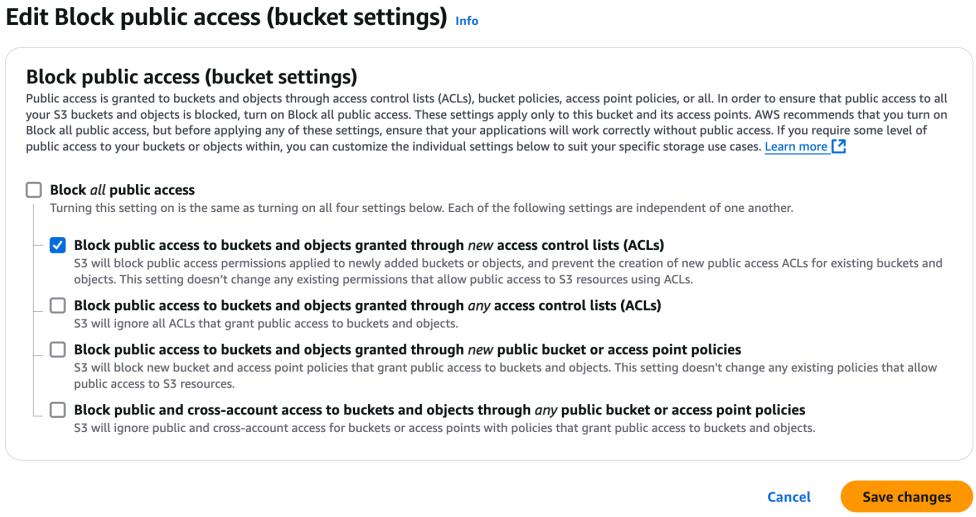
In this exercise, we will configure S3 Block Public Access, an easy way to prevent public access to your bucket.

From the AWS console in the top search bar, search and select `S3`.

- Click the bucket name starting with `sid-security-xxxxxxxx`.
- Click on the `Permissions` tab.
- Under `Bucket Policy` click `Delete`.
- Type `delete` and click `Delete` to confirm.

Under `Block public access (bucket settings)` click `Edit`.

Select `Block public access to buckets and objects granted through` ***new*** `access control lists (ACLs).`



Click `Save changes.`

Type `confirm` to confirm the new settings then click `Confirm.`

From your SSH session run the following command.

```
aws s3api put-object --key text01 --body textfile --bucket ${bucket}
```

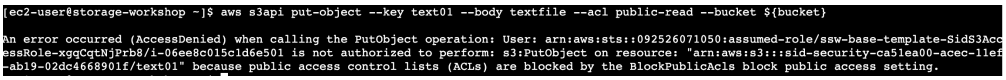
The request succeeds since the default for an object ACL is private.

```
[ec2-user@storage-workshop ~]$ aws s3api put-object --key text01 --body textfile --bucket ${bucket}
{
    "SSEKMSKeyId": "arn:aws:kms:us-west-2:121049687582:key/7f76ab8c-d042-4392-afd8-020e04f9439a",
    "ETag": "\"f39bb2ed7b4776e409bea6ac19e188db\"",
    "ServerSideEncryption": "aws:kms"
}
[ec2-user@storage-workshop ~]$
```

From you SSH session run the following command.

```
aws s3api put-object --key text01 --body textfile --acl public-read --bucket ${bucket}
```

Since we configured `Block public access to buckets and objects granted through` ***new*** `access control lists (ACLs)` for the bucket, this request fails because S3 prevents new objects from being granted access public access via ACLs.



From the AWS console in the top search bar, search and select `S3`.

- Click the bucket name starting with `sid-security-xxxxxxxx`.
- Click on the `Permissions` tab.
- Under `Block public access (bucket settings)` click `Edit`.
- Unselect `Block public access to buckets and objects granted through new access control lists (ACLs)`.

Click `Save changes`.

Type `confirm` to confirm the new settings, then click `Confirm`.

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