

```
root@valentina-VirtualBox:/home/valentina# sudo apt update
```

```
sudo apt install -y unzip curl
```

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## 2. Descargar AWS CLI v2

```
bash
```

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```
curl "https://awscli.amazonaws.com/awscli-exe-linux-x86_64.zip" -o "awscliv2.zip"
```

## 3. Descomprimir

```
bash
```

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```
unzip awscliv2.zip
```

```
root@valentina-VirtualBox:/home/valentina# sudo ./aws/install
You can now run: /usr/local/bin/aws --version
root@valentina-VirtualBox:/home/valentina# aws --version
aws-cli/2.32.15 Python/3.13.11 Linux/6.14.0-35-generic exe/x86_64/ubuntu.24
root@valentina-VirtualBox:/home/valentina# aws configure
AWS Access Key ID [None]: ASIASVUBJTBNOERVBGC
AWS Secret Access Key [None]: 7y4EXryLYrwvc0dIk3bkngc58Yz429SJQgV9BVoc
AWS Session Token [None]: aws_session_token=IQoJb3JpZ2luX2VjEDgaCXVzLXdIc3QtMiJH
<6Tgql/SmF+/CSLC4Wuy9JYgkwi5n089kxZLQ9YKdyi57PJyMi90
Default region name [None]: us-east-1
Default output format [None]: json
```

NOMBRE	REGION DE AWS	FECHA DE CREACION
bucket-mi-s3-website-valentina	EE.UU. Este (Norte de Virginia) us-east-1	12 Dec 2025 10:12:34 AM CET

```
root@valentina-VirtualBox:/home/valentina# aws s3 ls
2025-12-12 10:12:34 bucket-mi-s3-website-valentina
```

```
root@valentina-VirtualBox:/home/valentina# aws s3 cp ~/s3-website/index.html s3://bucket-mi-s3-website-valentina
upload: ../../root/s3-website/index.html to s3://bucket-mi-s3-website-valentina/index.html
root@valentina-VirtualBox:/home/valentina# aws s3 ls s3://bucket-mi-s3-website-valentina
2025-12-12 10:26:00          42 index.html
```

```
root@valentina-VirtualBox:/home/valentina# cat > website.json <<EOF
{
  "IndexDocument": { "Suffix": "index.html" },
  "ErrorDocument": { "Key": "error.html" }
}
EOF
root@valentina-VirtualBox:/home/valentina# aws s3api put-bucket-website \
>   --bucket bucket-mi-s3-website-valentina \
>   --website-configuration file://website.json
```

```
root@valentina-VirtualBox:/home/valentina# cat > policy.json <<EOF
{
  "Version": "2012-10-17",
  "Statement": [
    { "Sid": "PublicRead",
      "Effect": "Allow",
      "Principal": "*",
      "Action": ["s3:GetObject"],
      "Resource": ["arn:aws:s3:::bucket-mi-s3-website-valentina/*"]
    }
  ]
}
EOF
root@valentina-VirtualBox:/home/valentina# aws s3api put-bucket-policy \
> --bucket bucket-mi-s3-website-valentina \
> --policy file://policy.json
```

An error occurred (AccessDenied) when calling the PutBucketPolicy operation: User: arn:aws:sts::183881013322:assumed-role/voclabs/user4527780=Siu is not authorized to perform: s3:PutBucketPolicy on resource: "arn:aws:s3:::bucket-mi-s3-website-valentina" because public policies are prevented by the BlockPublicPolicy setting in S3 Block Public Access.

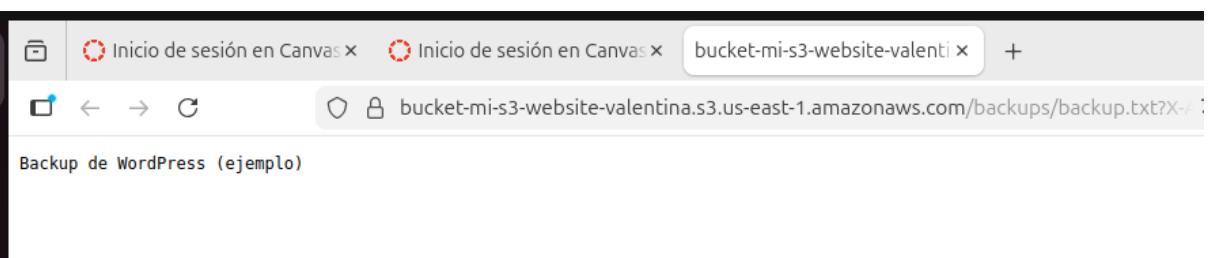
```
root@valentina-VirtualBox:/home/valentina# aws s3api put-bucket-versioning \
>   --bucket bucket-mi-s3-website-valentina \
>   --versioning-configuration Status=Enabled
```

```
root@valentina-VirtualBox:/home/valentina# aws s3api list-object-versions --bucket bucket-mi-s3-website-valentina
{
    "Versions": [
        {
            "Terminal" "ETag": "\"6bf9e1c453a1195244a836198c1d2a93\"",
            "ChecksumAlgorithm": [
                "CRC64NVME"
            ],
            "ChecksumType": "FULL_OBJECT",
            "Size": 42,
            "StorageClass": "STANDARD",
            "Key": "index.html",
            "VersionId": "null",
            "IsLatest": true,
            "LastModified": "2025-12-12T09:26:00+00:00",
            "Owner": {
                "ID": "c586a36a7d3d8b0c7b68015384803a138689d0a465bbef216fc50cc7d51f1a4d"
            }
        }
    ],
    "RequestCharged": null,
    "Prefix": ""
}
```

```
root@valentina-VirtualBox:/home/valentina# mkdir ~/s3-backups
root@valentina-VirtualBox:/home/valentina# echo "Backup de WordPress (ejemplo)" > ~/s3-backups/backup.txt
root@valentina-VirtualBox:/home/valentina# aws s3 cp ~/s3-backups/backup.txt s3://bucket-mi-s3-website-valentina/backups/
upload: ../../root/s3-backups/backup.txt to s3://bucket-mi-s3-website-valentina/backups/backup.txt
```

	Nombre	Tipo	Última modificación	T
<input type="checkbox"/>	<a href="#">backups/</a>	Carpeta	-	
<input type="checkbox"/>	<a href="#">index.html</a>	html	12 Dec 2025 10:26:00 AM CET	

```
root@valentina-VirtualBox:/home/valentina# aws s3 presign s3://bucket-mi-s3-webs  
ite-valentina/backups/backup.txt --expires-in 600  
https://bucket-mi-s3-website-valentina.s3.us-east-1.amazonaws.com/backups/backup  
.txt?X-Amz-Algorithm=AWS4-HMAC-SHA256&X-Amz-Credential=ASIASVUBJTFNOERVBGC%2F20  
251212%2Fus-east-1%2Fs3%2Faws4_request&X-Amz-Date=20251212T094803Z&X-Amz-Expires  
=600&X-Amz-SignedHeaders=host&X-Amz-Security-Token=IQoJb3JpZ2luX2VjEDgaCXVzLXdIc  
3QtMiJHMEUCIBi0BBrZWAh2fbAaLRyIQTqoaXKD39m0JUVH1TpIcR6AiEA5m0U4SCL1dXDtu0Ys5Uxe  
kpZ1g85iLKOUn2wIVieHoqnQIIARAAGwxODM40DEwMTMzMjIiDBVpH785%2F6MrgyPc%2FSr6ARWCo  
YfFEZbdNeZIkCrm9tJyK%2BGkUzMBNXX3RthRt8PPlr7fAoqJmffv06Z%2FA4gmlAmIvlwQfq5dCbAt  
eEELfMGYU5QWJQtA24zvak64P9mtb1NkPNbP39cLSe7Jg3Z7Q2T%2Bsgm8WK0Zw7i8Axq1FT5aTccnEn  
%2FvvNb07biYHNZeUsdSlPRzzQqIGjUiXzFmygmCEBCEuNp6CeBFfwpoC06l7YqS0BEGAGdK0wrYiECI  
FhZmsGC00pcwoI2phNipa%2FRKAb0U8Wp6BZorRiCsIASlk7AXoMgvq4tH1s3eoroXe0PBj8nTUI0S  
Jv%2BWhPM9DYQf0%2FJ%2B8Ni0wk53vyQY6nQFgoMH8yBqueek6FQx%2Fmc5swyiYYHpedga5ZEwGBhry  
agJXVqjxF3AN5aZM8x3S750crZSI8uy33LtbIkINXJ3Fvfm10VQul8cnF2yItdpbi8xj%2BKELFOp5rE  
6BdBY3BEyM4WIkVliX%2FEHIJj6c0%2F0C4UXnl%2F8Iqt6Tgql%2FSmF%2B%2FCSLC4Wuy9JYgkwi5n  
089kxZLQ9YKdyi57PJyMi90&X-Amz-Signature=d3b354aae8c2565b216416d0bb7d83ae9c951e79  
0b6f83848e8593afb7111e2e
```



```
root@valentina-VirtualBox:/home/valentina# aws s3api put-object-tagging \  
--bucket bucket-mi-s3-website-valentina \  
--key index.html \  
--tagging 'TagSet=[{Key=proyecto,Value=SMR2},{Key=profesor,Value=Miguel}]'  
{  
    "VersionId": "null"  
}  
root@valentina-VirtualBox:/home/valentina# aws s3api get-object-tagging \  
--bucket bucket-mi-s3-website-valentina \  
--key index.html  
{  
    "VersionId": "null",  
    "TagSet": [  
        {  
            "Key": "proyecto",  
            "Value": "SMR2"  
        },  
        {  
            "Key": "profesor",  
            "Value": "Miguel"  
        }  
    ]  
}
```

```

root@valentina-VirtualBox:/home/valentina# aws s3 cp ~/s3-backups/backup.txt \
s3://bucket-mi-s3-website-valentina/ \
--storage-class STANDARD_IA
upload: ../../root/s3-backups/backup.txt to s3://bucket-mi-s3-website-valentina/
backup.txt
root@valentina-VirtualBox:/home/valentina# aws s3api list-objects-v2 \
--bucket bucket-mi-s3-website-valentina \
--query "Contents[].[Key,StorageClass]"
[
  [
    [
      "backup.txt",
      "STANDARD_IA"
    ],
    [
      "backups/backup.txt",
      "STANDARD"
    ],
    [
      "index.html",
      "STANDARD"
    ]
]

```

	Nombre	Tipo	Última modificación	Tamaño	Clase de almacenamiento
<input type="checkbox"/>	<a href="#"> backup.txt</a>	txt	12 Dec 2025 10:50:34 AM CET	30.0 B	Estándar Acceso p frecuente
<input type="checkbox"/>	<a href="#"> backups/</a>	Carpeta	-	-	-
<input type="checkbox"/>	<a href="#"> index.html</a>	html	12 Dec 2025 10:26:00 AM CET	42.0 B	Estándar

```

root@valentina-VirtualBox:/home/valentina# cat > lifecycle.json <<EOF
{
"Rules": [
  {
    "ID": "MoveToIA",
    "Prefix": "",
    "Status": "Enabled",
    "Transitions": [
      {"Days": 30, "StorageClass": "STANDARD_IA"}
    ],
    "Expiration": {"Days": 365}
  }
]
}
EOF

```

```
root@valentina-VirtualBox:/home/valentina# aws s3api put-bucket-lifecycle-configuration \
--bucket bucket-mi-s3-website-valentina \
--lifecycle-configuration file://lifecycle.json
{
    "TransitionDefaultMinimumObjectSize": "all_storage_classes_128K"
}
```

```
root@valentina-VirtualBox:/home/valentina# aws s3api get-bucket-lifecycle-configuration \
--bucket bucket-mi-s3-website-valentina
{
    "TransitionDefaultMinimumObjectSize": "all_storage_classes_128K",
    "Rules": [
        {
            "Expiration": {
                "Days": 365
            },
            "ID": "MoveToIA",
            "Prefix": "",
            "Status": "Enabled",
            "Transitions": [
                {
                    "Days": 30,
                    "StorageClass": "STANDARD_IA"
                }
            ]
        }
    ]
}
```

```
root@valentina-VirtualBox:/home/valentina# cat > deploy-s3.sh <<'EOF'
#!/bin/bash
set -e
BUCKET="mi-s3-website-$(whoami)"
aws s3api create-bucket --bucket $BUCKET --region eu-west-1 \
--create-bucket-configuration LocationConstraint=eu-west-1
aws s3 cp index.html s3://$BUCKET --acl public-read
aws s3api put-bucket-website \
--bucket $BUCKET \
--website-configuration '{"IndexDocument":{"Suffix":"index.html"}}'
cat > policy.json <<POL
{"Version":"2012-10-17","Statement":[{"Sid":"PublicRead",
"Effect":"Allow","Principal":"*",
>Action":["s3:GetObject"],
"Resource":["arn:aws:s3:::$BUCKET/*"]}]}
POL
aws s3api put-bucket-policy --bucket $BUCKET --policy file://policy.json
echo "Implementación completada. Sitio disponible en:"
echo "http://$BUCKET.s3-website-eu-west-1.amazonaws.com"
EOF
root@valentina-VirtualBox:/home/valentina# chmod +x deploy-s3.sh
root@valentina-VirtualBox:/home/valentina# ./deploy-s3.sh
```

An error occurred (AccessDenied) when calling the CreateBucket operation: User: arn:aws:sts::183881013322:assumed-role/voclabs/user4527780=Siu is not authorized to perform: s3:CreateBucket on resource: "arn:aws:s3:::mi-s3-website-root" because no identity-based policy allows the s3:CreateBucket action

```
root@valentina-VirtualBox:/home/valentina# aws cloudwatch list-metrics --namespa
ce AWS/S3 | head -15
{
    "Metrics": []
}
```

Conclusión a pesar de que la cuenta de academy no tiene permisos para nada se logró hacer la práctica. Uno que otros comandos no se pueden hacer porque la cuenta de academy no tiene permisos.