



ClouDian HyperStore[®] Outposts Installation Guide

Introduction

Cloudian HyperStore for AWS Outposts

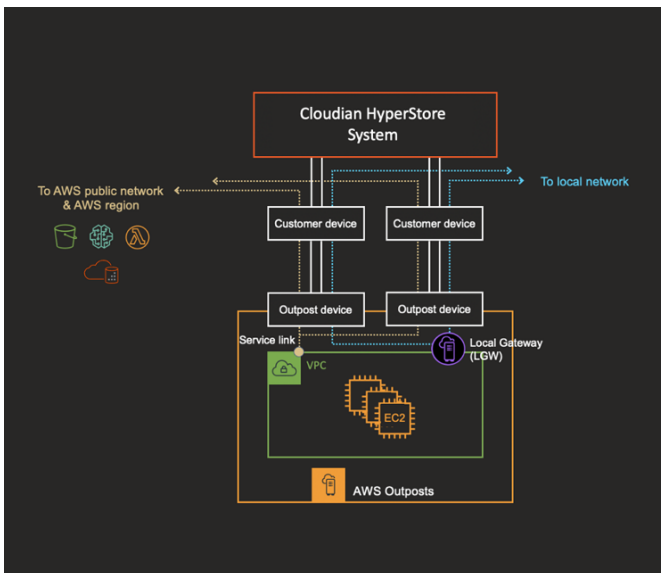
A Cloudian HyperStore system provides up to an exabyte of S3-compatible storage for your Outposts system. Located on-prem, in the same data center as your Outposts, the HyperStore system provides local storage for enhanced performance and regulatory compliance.

Architecture

Cloudian is offered in two configurations:

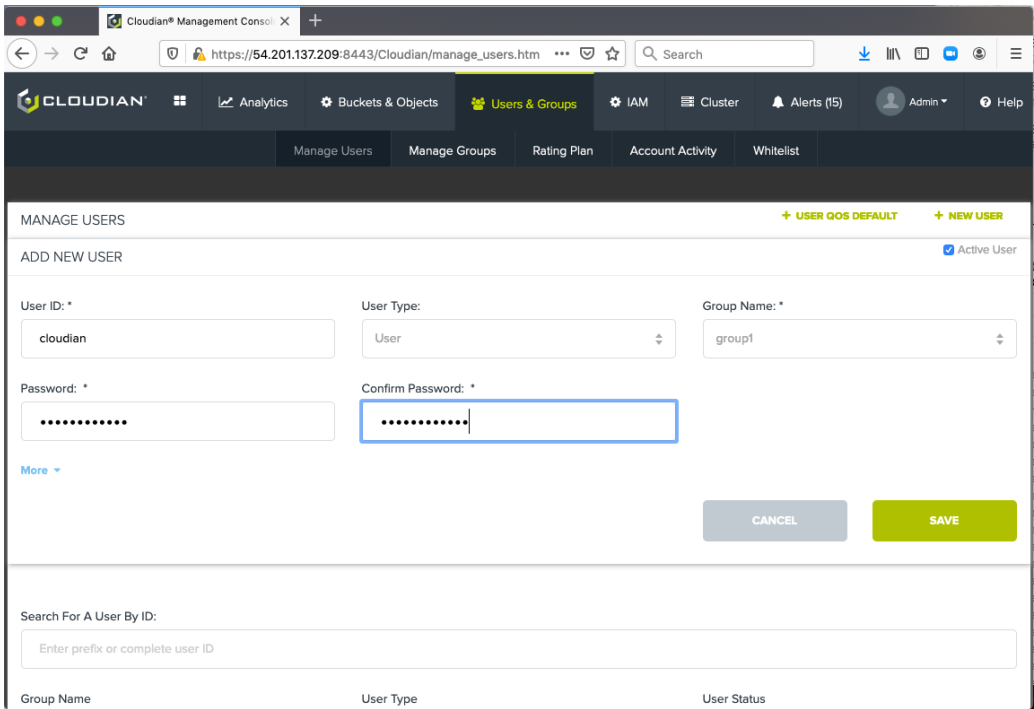
- **Storage appliances:** Preconfigured appliances with capacities up to 1.5PB per device. A cluster may be configured with as few as three nodes.
- **Software:** Cloudian HyperStore software may be deployed on the industry standard server of your choice. Cloudian may also be deployed on virtual machines.

Whether deployed as software or hardware, the Cloudian system is connected to Outposts via a standard Ethernet connection.

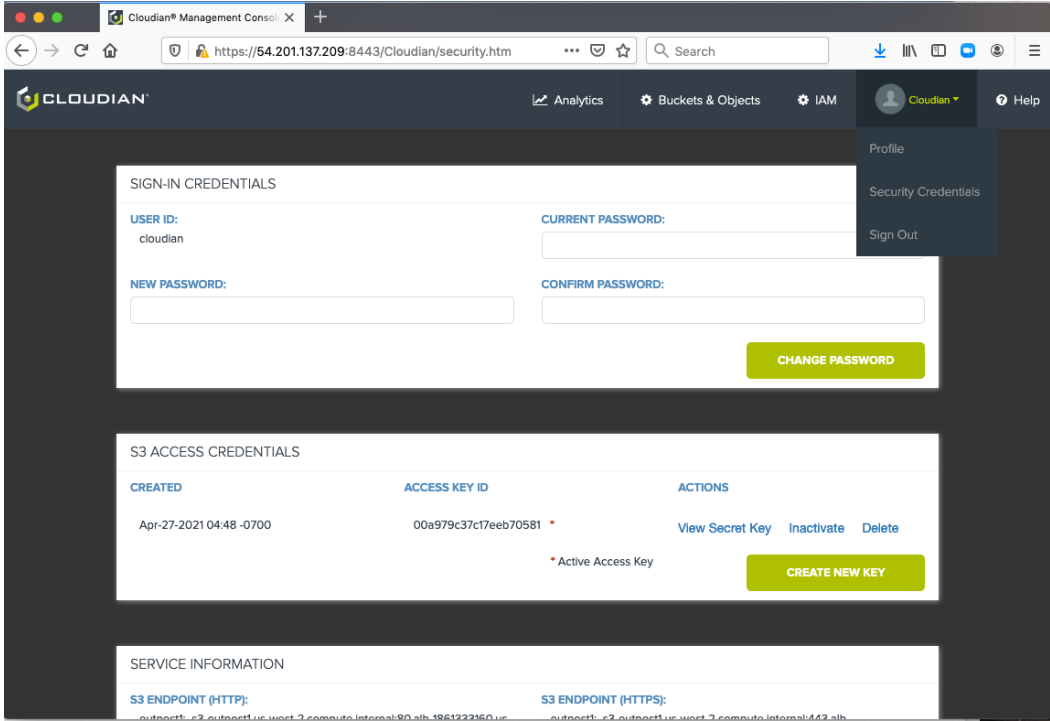


Installation Process

- 1) Login to the Cloudian Management Console as Admin
- 2) Navigate to Users & Groups
- 3) Select “Manage Users” to create a new user



4) Login to the newly created account and navigate to Clouidian > Security Credentials to obtain your access key and secret key for accessing S3 buckets.



- 5) Use the AWS CLI to add the User's access key and secret key for access to Cloudian Hyperstore S3 storage



```
Desktop -- ec2-user@ip-10-0-1-101:~ -- ssh -i op-mk.pem ec2-user@34.219.127.97 -- 128x34
[ec2-user@ip-10-0-1-101 ~]$ aws configure
AWS Access Key ID [*****c9c7]:
AWS Secret Access Key [*****Hy4A]:
Default region name [outpost1]:
Default output format [json]:
[ec2-user@ip-10-0-1-101 ~]$
```

- 6) Create an S3 bucket using the 'aws s3 mb' command
- 7) Verify that you can view the newly created bucket using the 'aws s3 ls' command



```
Desktop -- ec2-user@ip-10-0-1-101:~ -- ssh -i op-mk.pem ec2-user@34.219.127.97 -- 128x34
[ec2-user@ip-10-0-1-101 ~]$ aws s3 mb s3://cloudian1 --endpoint-url http://s3-outpost1.us-west-2.compute.internal
make_bucket: cloudian1
[ec2-user@ip-10-0-1-101 ~]$ aws s3 ls s3:// --endpoint-url http://s3-outpost1.us-west-2.compute.internal
2021-04-27 12:05:21 cloudian1
[ec2-user@ip-10-0-1-101 ~]$
```

Data Backup & Restore

Hyperstore supports CRR (cross-region replication) so that a bucket in one service region can be configured so that all objects uploaded into the bucket are replicated to a bucket in a different service region within the same Hyperstore system providing two copies of the data. Data can be restored from either service region using the AWS CLI.

- 1) Log onto a system that has the AWS CLI installed.
- 2) Execute the cp command to restore data back into your working directory:

Example: `aws s3 cp s3://cloudian1 . --recursive --endpoint-url http://s3-outpost1.us-west-2.compute.internal`

This command restores all objects in the bucket to the current working directory, alternatively you can also restore individual objects if desired.



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