

AWS Tutorial: Automating AWS EFS, AWS EBS, and Amazon S3 Tutorial

This advanced AWS EFS, AWS EBS, and Amazon S3 training prepares cloud developers to automate the management of Amazon's storage services and optimize their utilization of resources. Take this course and you'll know how to automate storage provisioning, management, and backups. Practice using the code and the tools that will make your job less tedious and more interesting with this course on automating EFS, EBS, and S3 storage solutions.

[CBT Nuggets course material](#) →

WEEK 1

Automatically Replicate Amazon S3 Storage to Filebase 153 min.

Intro to Amazon S3 Data Replication	7
Solution Architecture: Amazon S3 Data Replication	10
Configure Amazon S3 and AWS Lambda Integration	7
Implement AWS Lambda Function to Retrieve S3 Objects	12
Write Amazon S3 Objects to Filebase Storage	14
Review and Conclusion	4

Use Amazon S3 Storage as Local Filesystem

Overview	1
Intro to Amazon S3 Object Storage as a Filesystem	8
Connect a Local Ubuntu Linux Virtual Machine to S3 Storage	13
Use Amazon S3 Storage From Docker Containers	12
Mount S3 Filesystem using Named Credential Profiles	7
Mount Filebase S3-Compatible Storage with s3fs	13

Use Rclone to Copy Data Between Cloud Storage Systems

Overview	1
Introducing the Rclone Data Management Tool	9
Install Rclone on an Amazon EC2 Instance	7
Configure Amazon S3 Remote for Rclone	7
Configure Filebase Remote in Rclone	8
Generate Source Data in Amazon S3 Cloud Storage	5
Sync Data Between Amazon S3 and Filebase	6

WEEK 2

154 min.

Monitor Progress of Rclone Sync Tasks 5

Automate Amazon S3 Object Storage with PowerShell

Overview 1

Getting Started with Amazon S3 Object Storage 3

Setting Up Your Development Environment 9

Create an Amazon S3 Bucket with PowerShell 7

Create an Amazon S3 Bucket using PowerShell and AWS CloudFormation 5

Upload a Local File to an S3 Bucket 10

Download a File from an S3 Bucket 3

Remove an S3 Object 5

Delete an Amazon S3 Bucket 5

Review and Call to Action 1

Managing Amazon S3 Storage with Python and Boto3

Overview 1

Introduction to Amazon S3 and Python Boto3 SDK 9

Configure Remote Development Environment for Amazon S3 Programming 14

Understanding Python Boto3 Module Structure 9

Create Amazon S3 Bucket with Python and Boto3 12

Storing Data in Amazon S3 Buckets with Python and Boto3 15

Listing Objects in an Amazon S3 Bucket with Python and Boto3 7

Paginate Object Listings in Amazon S3 Buckets with Python 9

Delete Amazon S3 Objects and Bucket with Python Boto3 5

Managing Amazon Elastic Block Store (EBS) Volumes with PowerShell

Overview 1

Introduction to Amazon Elastic Block Store (EBS) and PowerShell Automation 15

WEEK 3

153 min.

Install and Configure Your AWS PowerShell Development Tools 13

Explore the Amazon EBS Management Commands in PowerShell 6

Create an Amazon EBS Volume with PowerShell 15

Attach and Detach Amazon EBS Volumes from EC2 Instances with PowerShell 14

Reconfigure Amazon EBS Storage Class and IOPS with PowerShell 11

Managing Amazon Elastic Block Store (EBS) with Python

Overview 1

Introduction to Amazon Elastic Block Store (EBS) and Python Automation 11

Understanding Python Automation APIs for Amazon EBS 8

Create Amazon EBS Volumes with Python 11

Find and Clean Up Unused EBS Volumes with Python 8

Attach an EBS Volume to EC2 with Python 7

Snapshot EBS Volumes with Python 7

Managing Amazon Elastic FileSystem with PowerShell

Overview 1

Intro to Amazon Elastic FileSystem and PowerShell Automation 12

Set up PowerShell Environment for Amazon EFS	12
Explore Amazon EFS PowerShell Commands	4
Create Amazon EFS FileSystem with PowerShell	10

WEEK 4

74 min.

Create Amazon EFS Mount Target with PowerShell	10
Configure Policies on Amazon EFS with PowerShell	9

Managing Amazon Elastic FileSystem with Python and Boto3

Overview	1
Intro to Amazon Elastic FileSystem and Python Boto3 Module	10
Set Up Python Automation Environment for Amazon EFS	9
Create an Amazon EFS FileSystem with Python	13
Add Mount Target to Amazon EFS Filesystem with Python	11
Update Amazon EFS FileSystem Attributes with Python	9