



Origin Group

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Introduction

- 1 CloudFront Origin Group
 - 1 A CloudFront Origin Group is a collection of multiple origins
 - 2 It provides reliability for your content delivery
- 2 Multiple Origins
 - 1 You can add multiple origins to the group
 - 2 These origins can be defined as
 - 1 Primary Origin
 - 2 Secondary Origin
- 3 Primary Origin
 - 1 The primary origin is the main source for your content
 - 2 CloudFront sends all requests to the primary origin first.
- 4 Secondary Origin
 - 1 The secondary origin acts as a backup
 - 2 If the primary origin fails, CloudFront switches to the secondary origin
- 5 Automatic Failover
 - 1 CloudFront automatically checks the health of both origins
 - 2 It automatically switches to the secondary origin if the primary is unavailable

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Lab Scenario - 1 Basic Scenario: EC2 and S3 Failover

- 1 Scenario Explanation
 - 1 In this scenario, the goal is to ensure continuous availability of your website even if the primary server (EC2 instance) goes down
- 2 Why We Are Creating This Setup
 - 1 User Experience
 - 1 If the primary EC2 instance hosting your website goes down, we don't want users to see an error or have no response.
 - 2 Instead, we want to give users a friendly message that the site will be back soon, or provide them with a basic version of the website.
 - 2 Business Continuity
 - 1 This setup ensures that your website remains accessible, even if it's in a limited capacity, which is crucial for maintaining trust with your users.
 - 3 Temporary Solution
 - 1 The S3 bucket will serve as a temporary, backup website
 - 2 It could display a "maintenance" message or provide basic information until the primary EC2 instance is back online.
- 3 Hands-On Steps
 - 1 Step-1 Create an EC2 Instance and Configure it as web server
 - 2 Step-2 Set Up an S3 Bucket and configure static web hosting
 - 3 Step-3 Create a CloudFront Distribution
 - 4 Step-4 Setup Origin Group
 - 5 Step-5 Test the Setup

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Lab Scenario - 2 Geographical Failover with Load Balancers

