

U

# Module 13



#### The architectural need

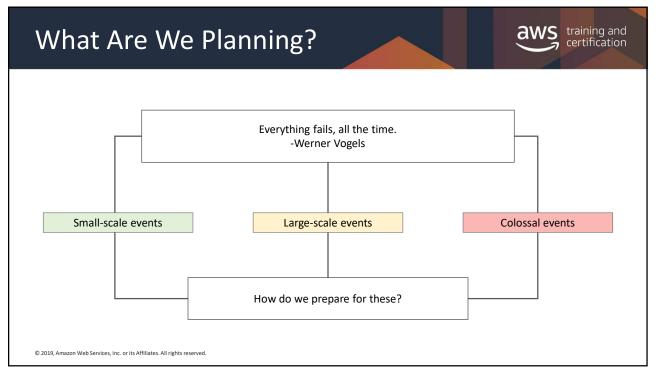
If your infrastructure becomes unavailable, you need to be able to get your application running again within an appropriate amount of time and at an appropriate level of cost.

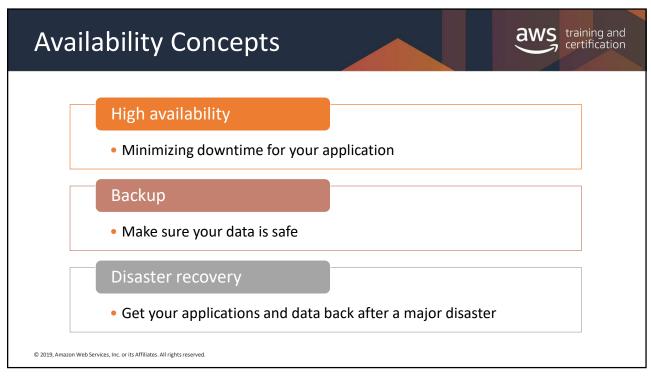
#### **Module Overview**

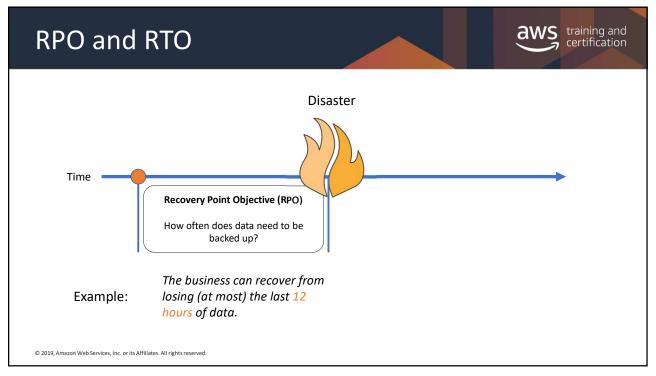
- Disaster Planning
- Recovery Options

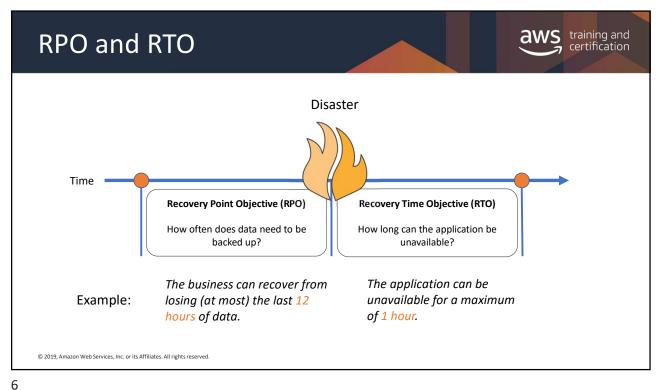
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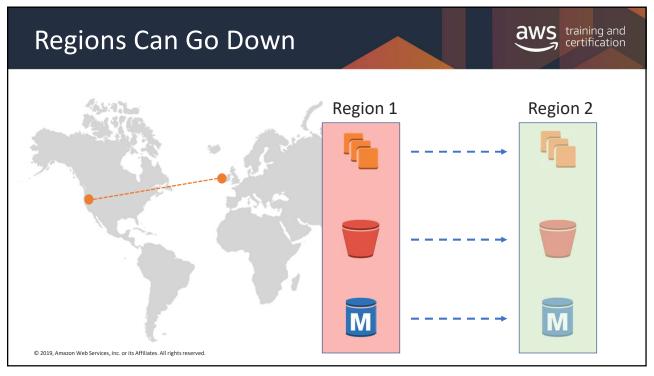


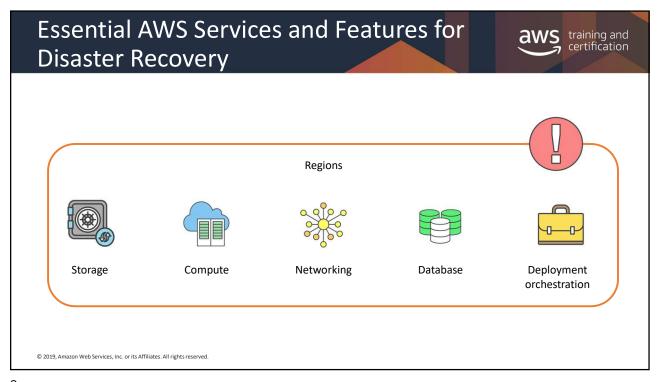


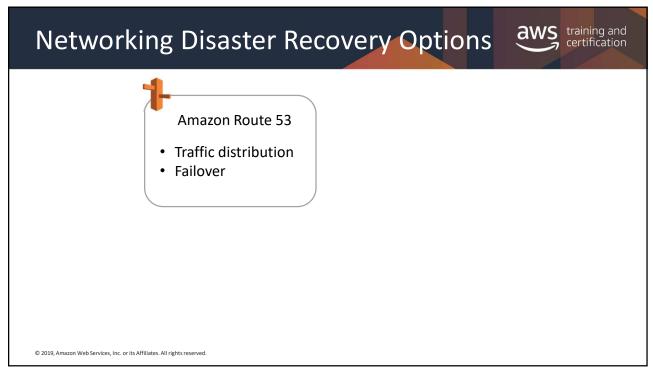


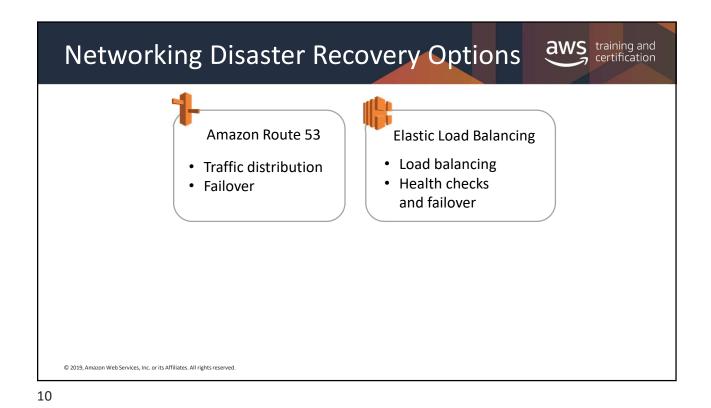


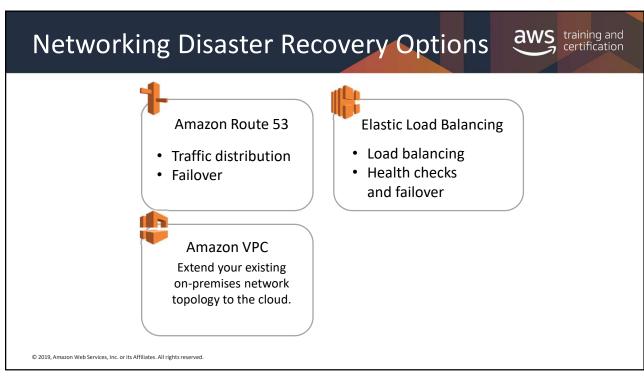


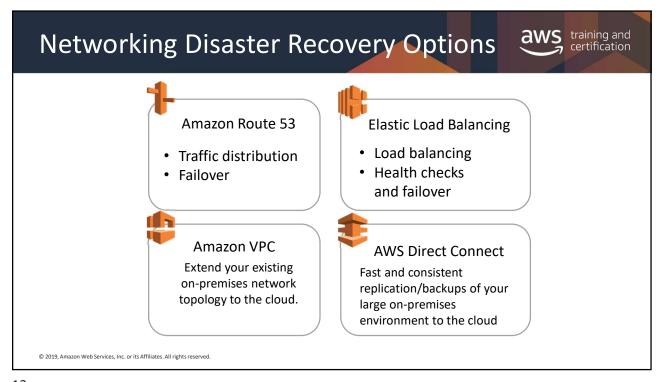




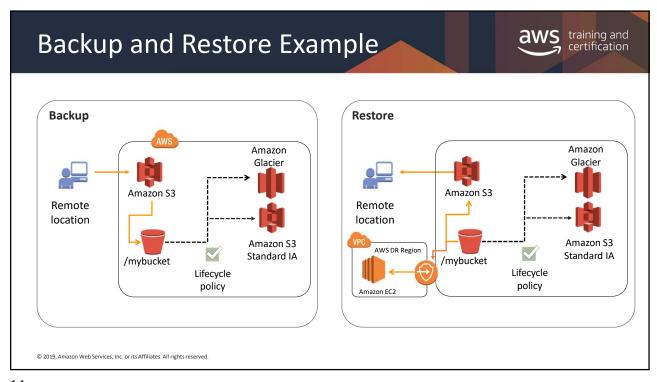


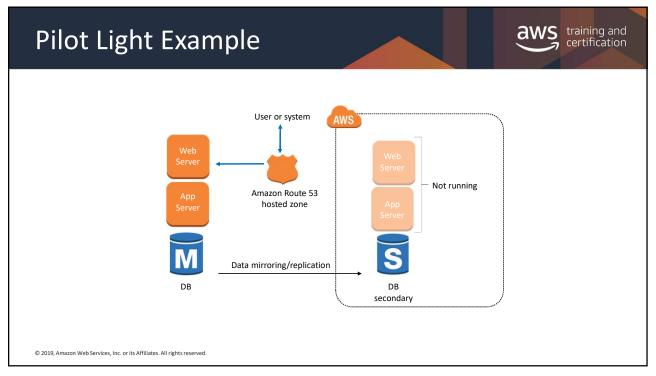


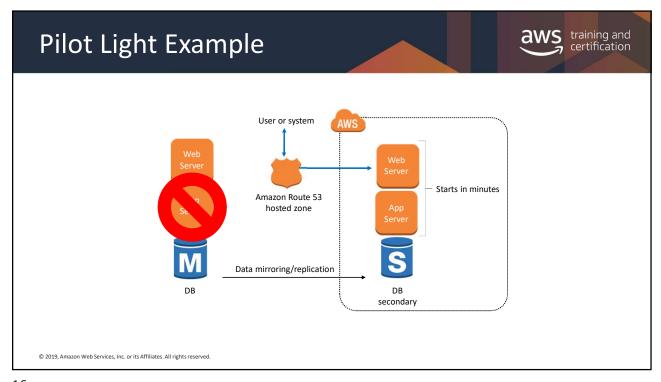


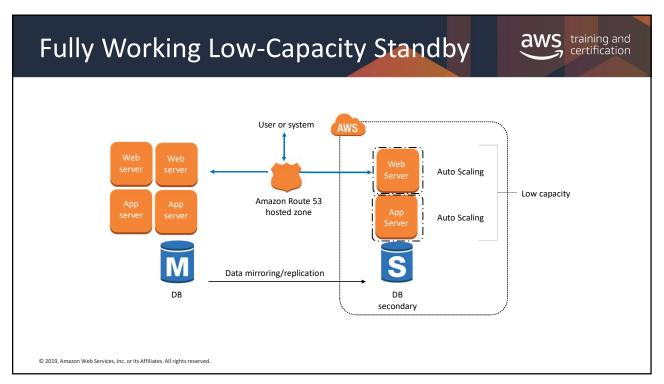


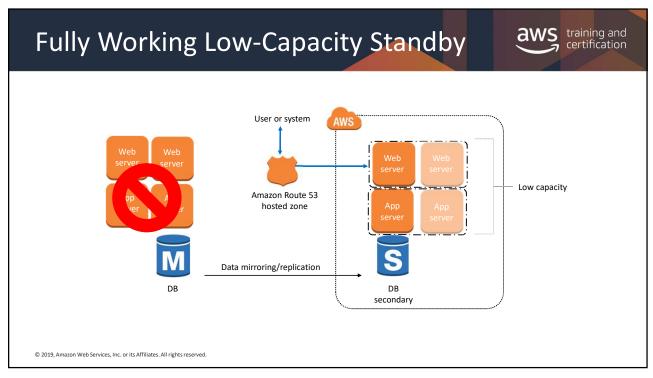


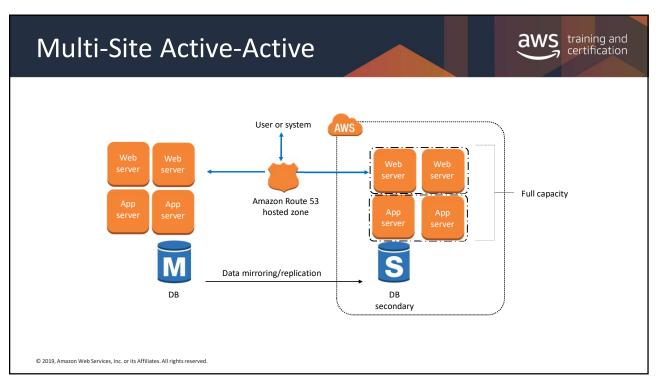


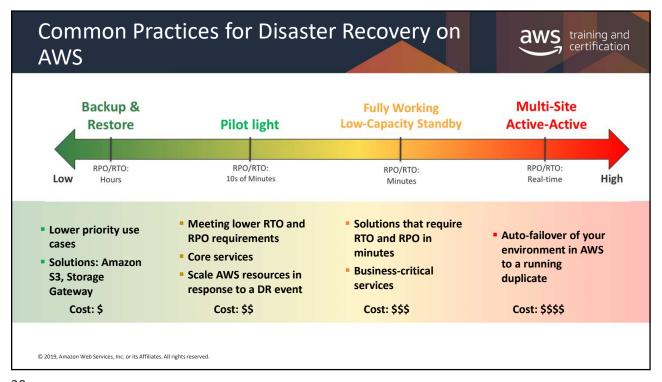




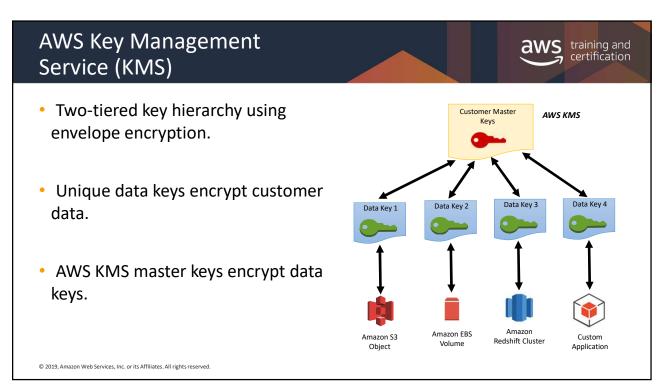










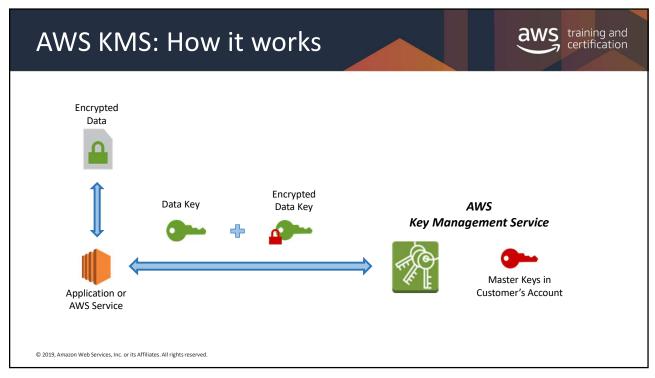


### **AWS KMS: Benefits**



- The master key is never made available.
- Data keys are available directly to the customer and these should be unique to each item encrypted.
  - If one is compromised, it will not allow decryption of other objects.
- The risk of a compromised data key is limited.
- The performance for encrypting large data is improved.
- It is easier to manage a small number of master keys than millions of data keys.

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## **AWS Secret Manager**



- AWS Secrets Manager is an AWS service that makes it easier for you to manage secrets.
- Secrets can be database credentials, passwords, third-party API keys.
- You can store and control access to these secrets centrally by using the Secrets Manager console, the Secrets Manager command line interface (CLI), or the Secrets Manager API and SDKs,
- Secrets Manager encrypts the protected text of a secret by using AWS KMS).
- AWS KMS is a key storage and encryption service used by many AWS services. This helps ensure that your secret is securely encrypted when it's at rest

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