AWS Elastic Beanstalk Tutorial

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What is AWS Elastic Beanstalk?

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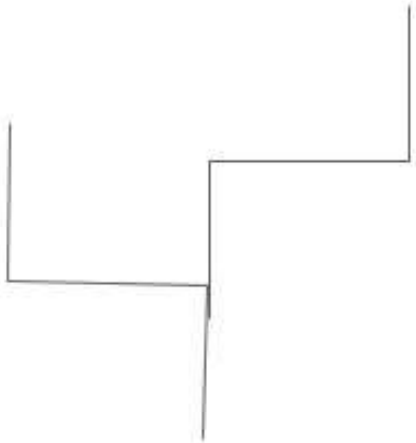
What is Amazon Elastic Beanstalk?

AWS Elastic Beanstalk is an PAAS service used for deploying and scaling web applications and services developed with Java, .NET, PHP, Node.js etc on familiar servers such as Apache, Nginx, Tomcat, and IIS.



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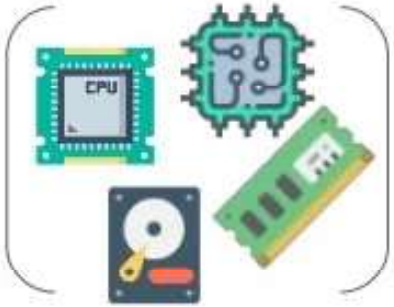
Scenario: A Computer

Option A



You can go to a computer ware house and buy different components according to your requirement & assemble them.

Deploying an application without using Elastic Beanstalk

Option B

You can visit a electronic retail store and buy a computer that fits your requirements.

Deploying an application using Elastic Beanstalk

What is Amazon Elastic Beanstalk?

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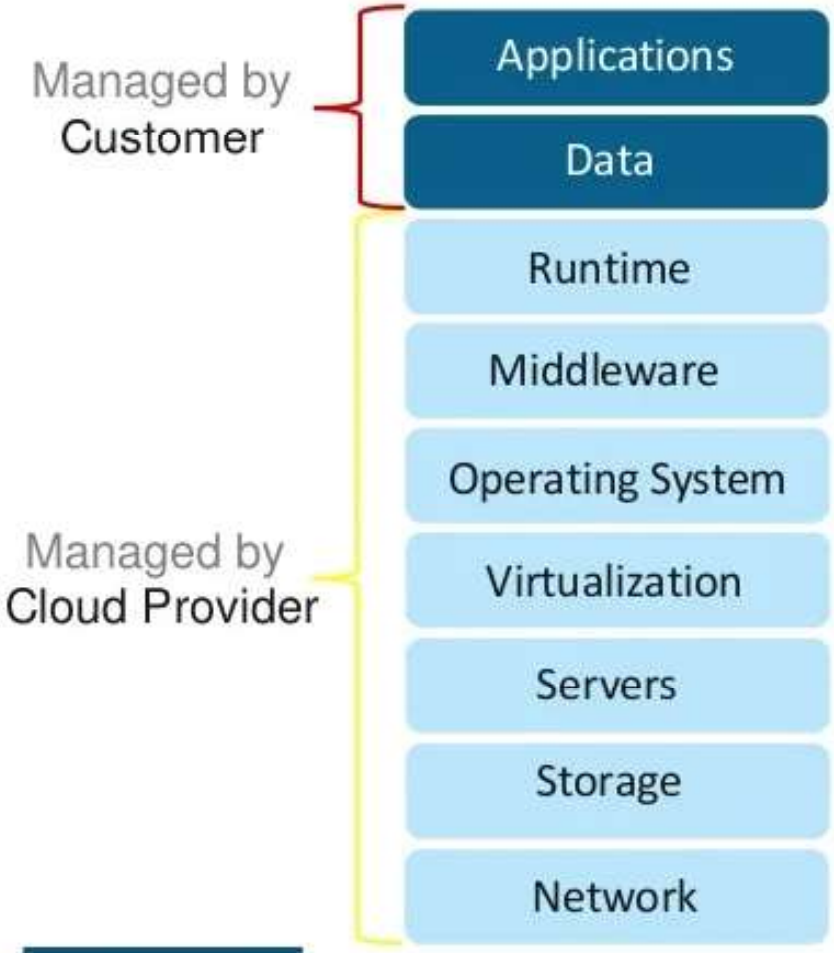
PAAS(Platform-As-A-Service)



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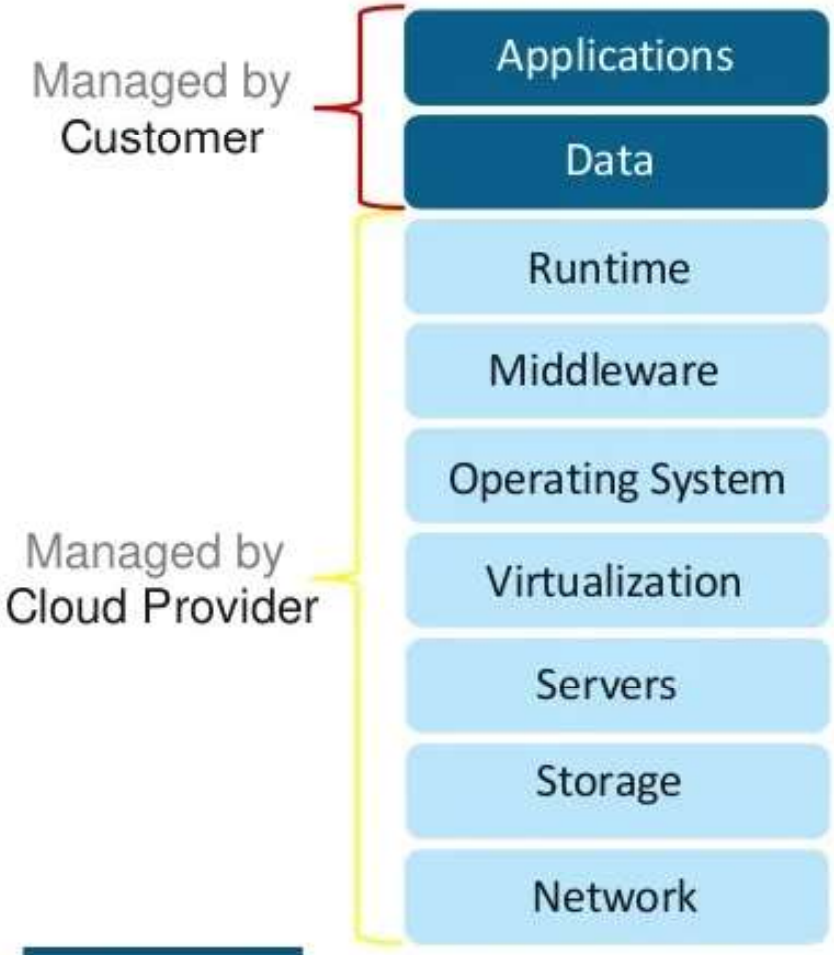

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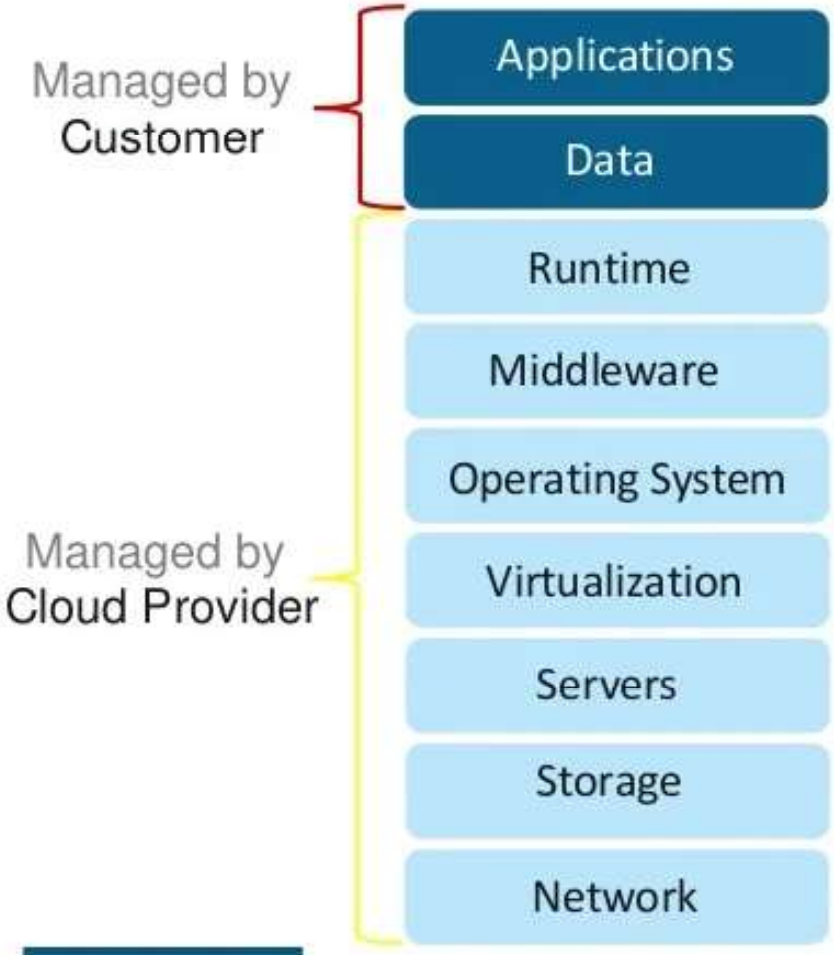

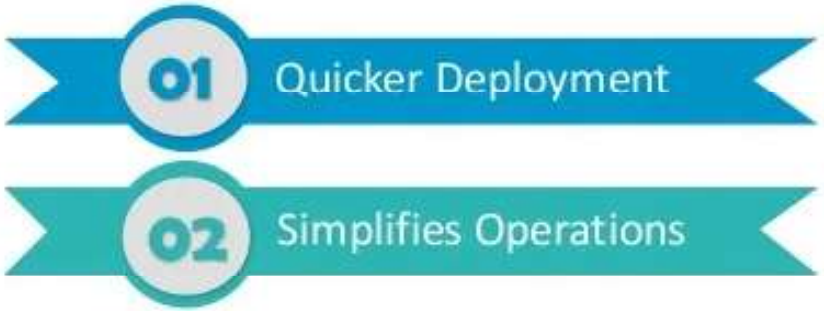

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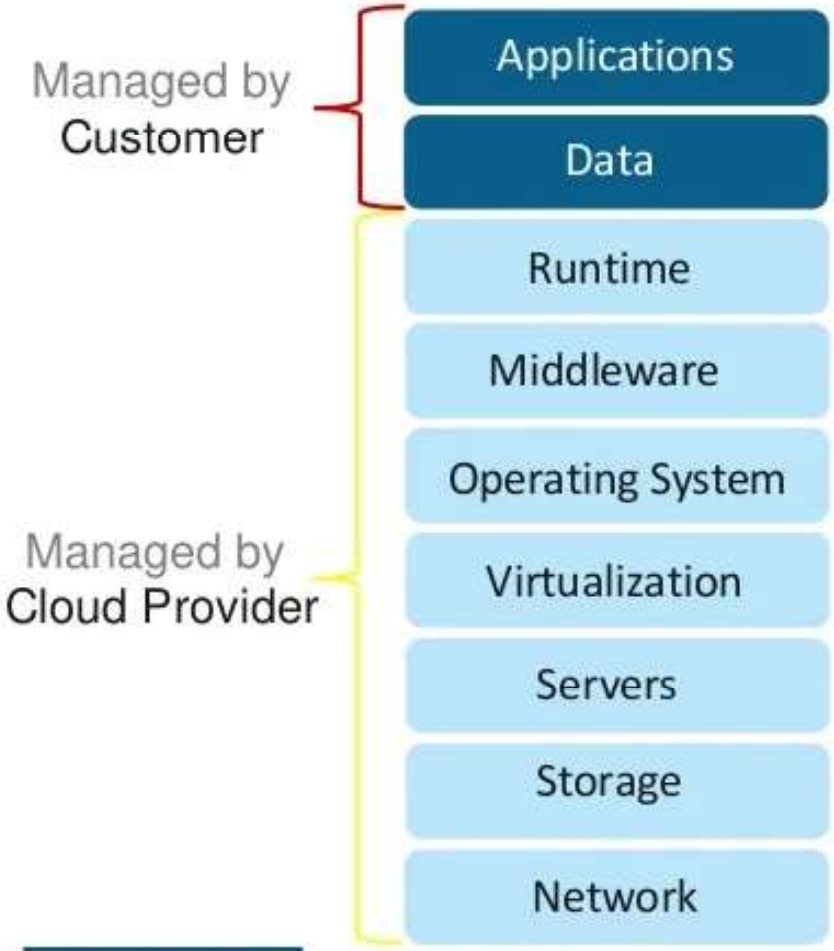

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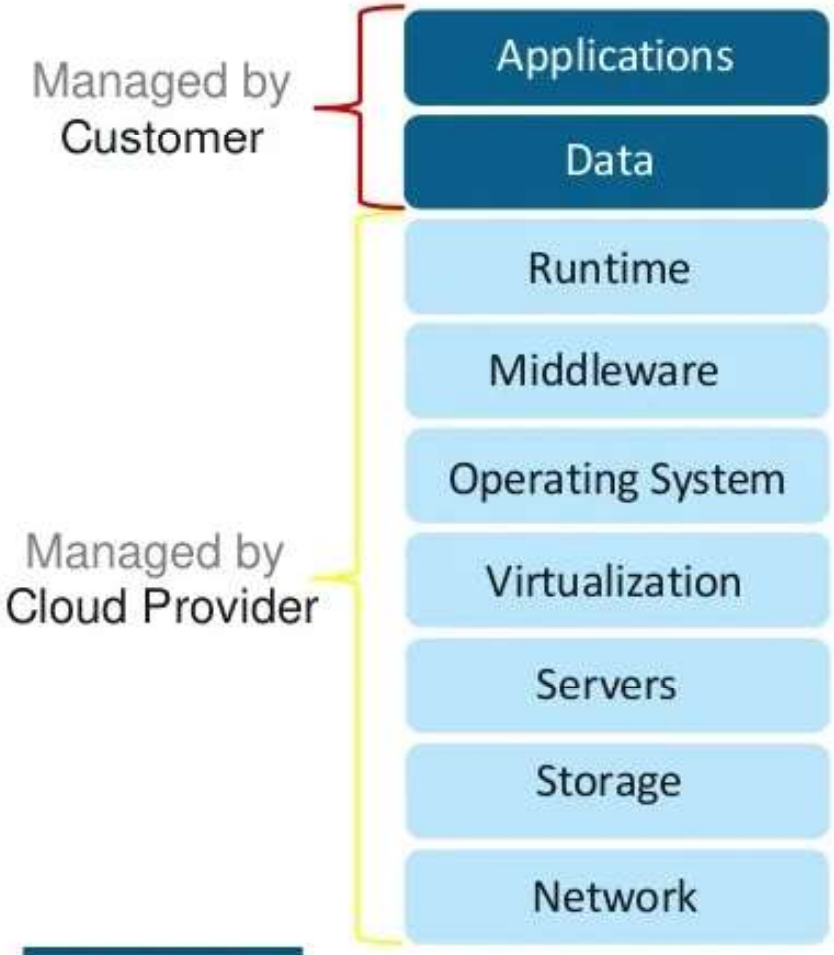

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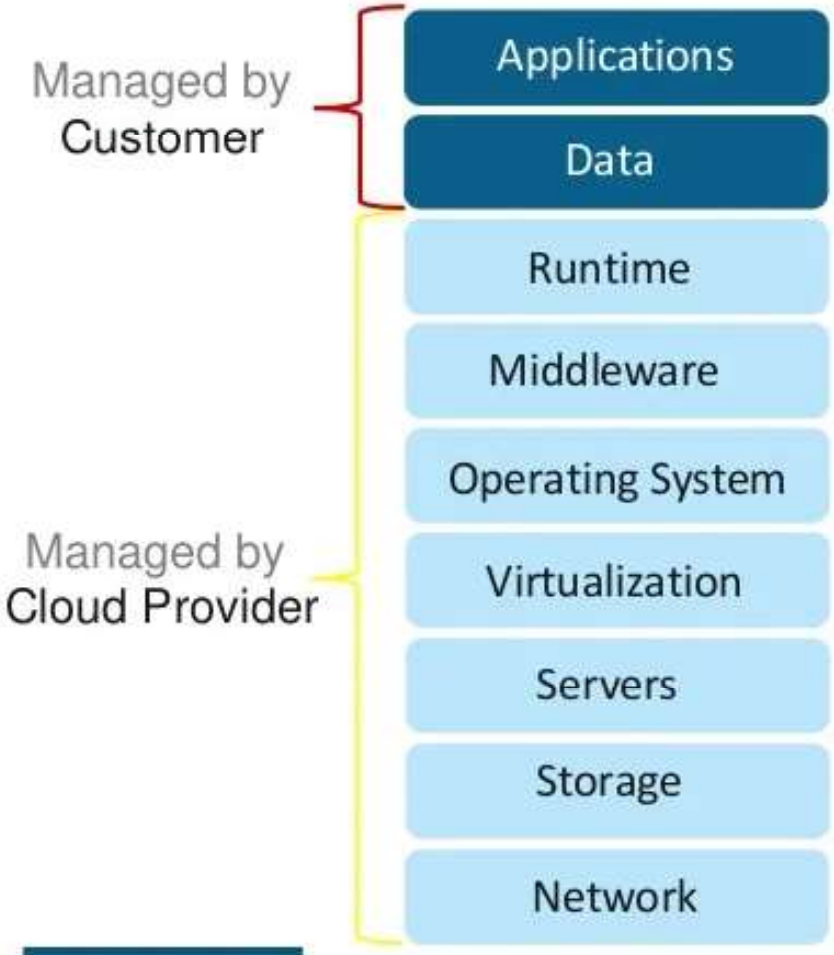
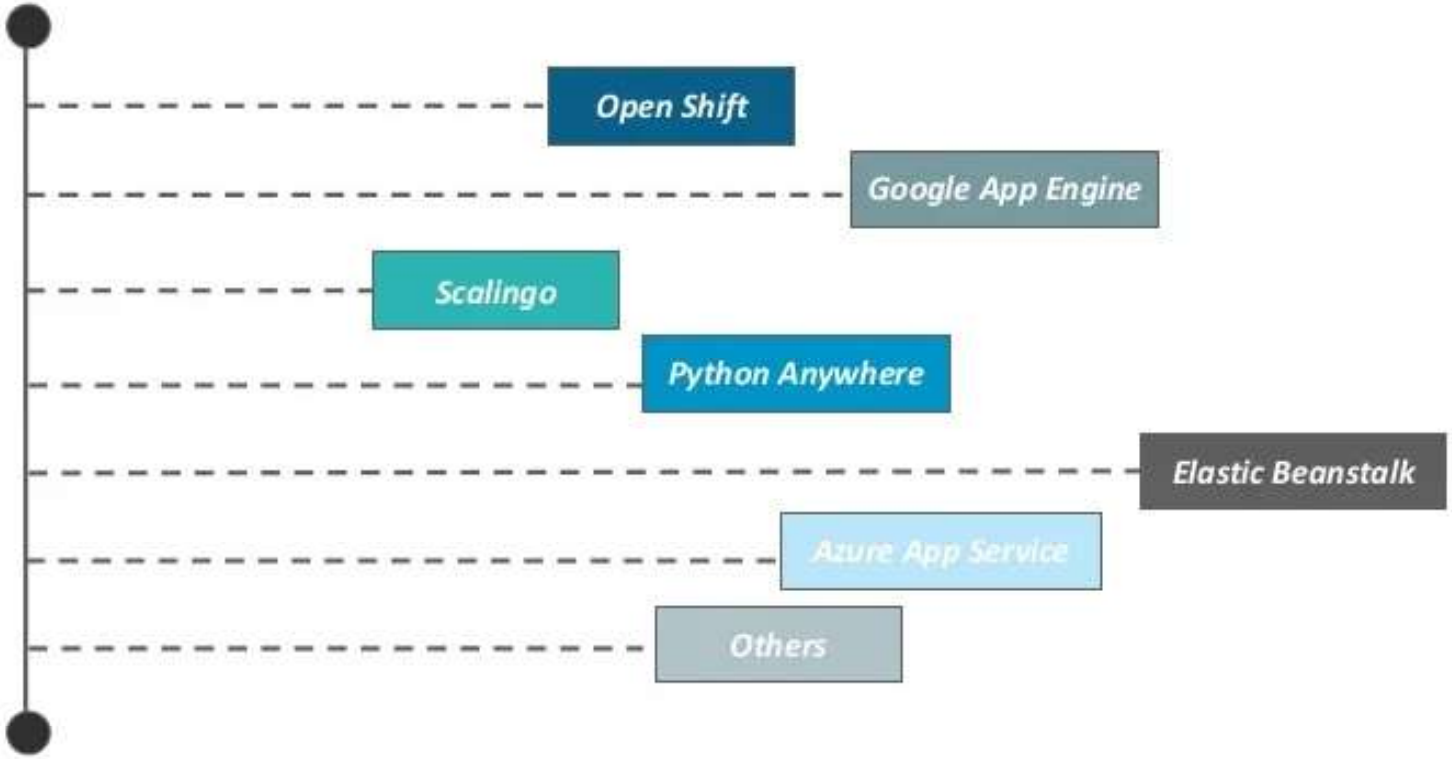


Web Hosting Platforms

Various application hosting platforms providing PAAS



Features of Elastic Beanstalk

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Features of AWS Elastic Beanstalk

Elastic Beanstalk is the fastest and simplest way to deploy your application on AWS.

Features of AWS Elastic Beanstalk

Elastic Beanstalk is the fastest and simplest way to deploy your application on AWS.

Enables you to focus on writing code rather than spending time managing and configuring servers etc.

Features of AWS Elastic Beanstalk

Features of AWS Elastic Beanstalk

Fundamentals Of Elastic Beanstalk

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Components Of Elastic Beanstalk

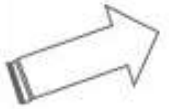
- An application is a collection of components including ***environments, versions*** and ***environment configuration.***
- An application in Elastic Beanstalk is conceptually similar to a folder.
- Ex : **tomcat-webapp**

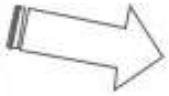
01 Application

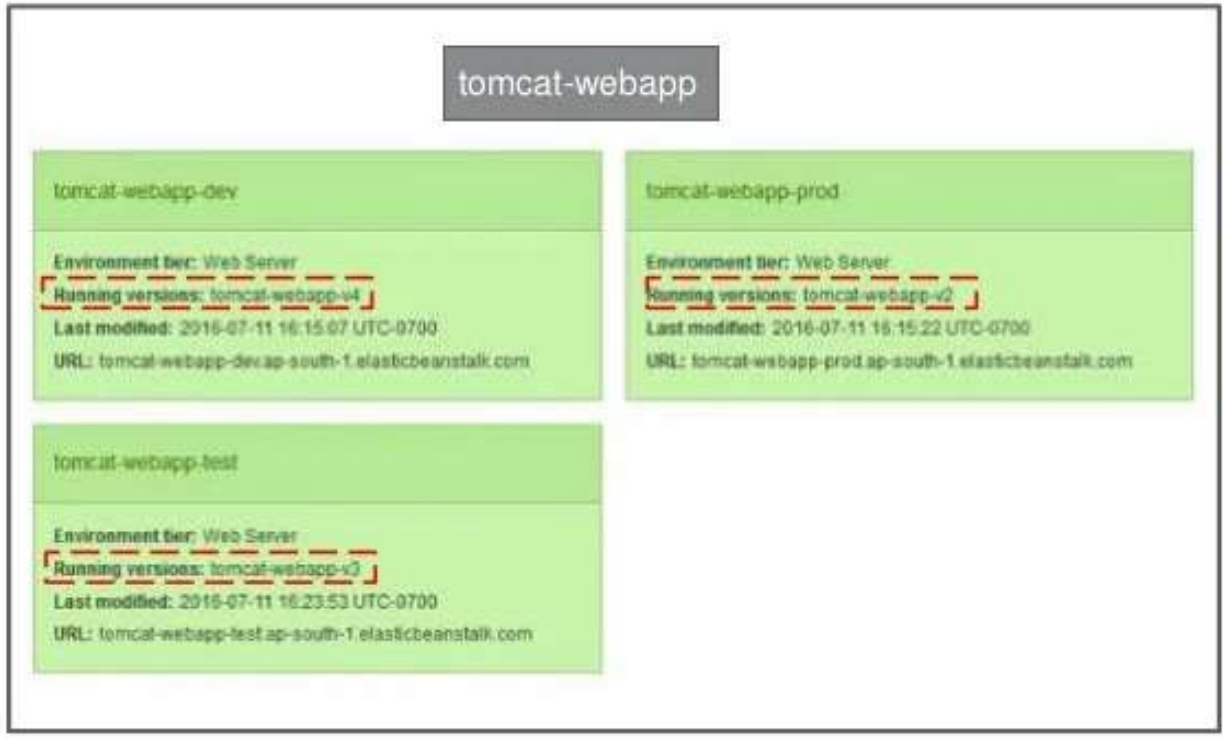
Components Of Elastic Beanstalk

- An *application version* refers to a specific, labeled iteration of deployable code for a web application.
- An application version points to an Amazon S3 object that contains the deployable code such as a Java WAR file.

02 Application Version







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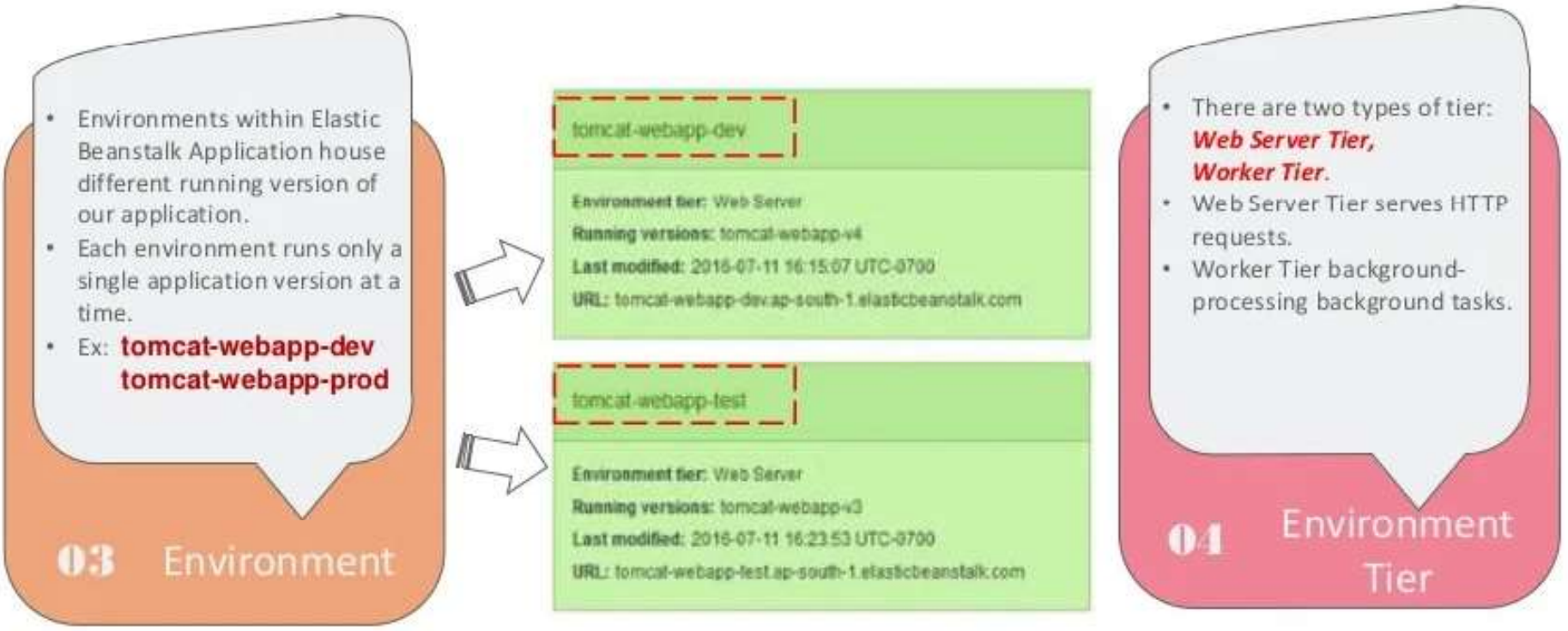

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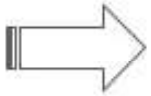

Environment is being updated

Passed recent health check

Failed one or more checks

Failed three or more checks

Architecture Of Elastic Beanstalk

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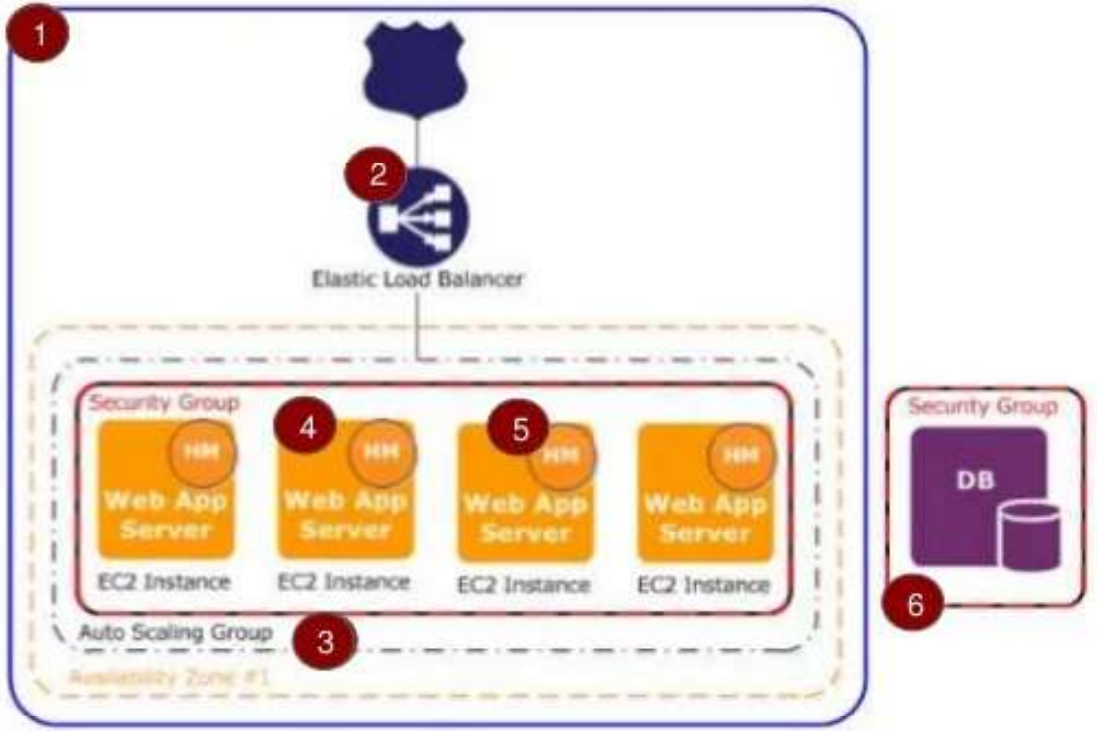
Web Server Environment

Web Server Environment Tier handles HTTP requests.



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02 Elastic Load Balancer

03 Auto Scaling Group

04 EC2 Instances

05 Host Manager

06 Security Groups

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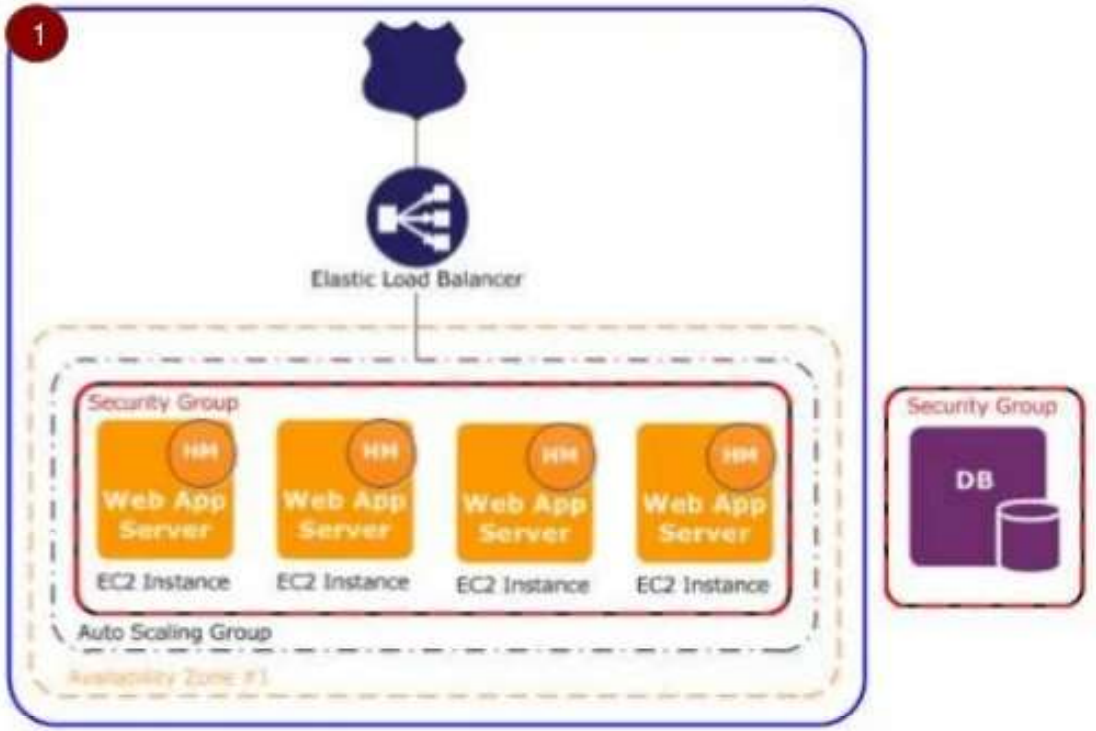

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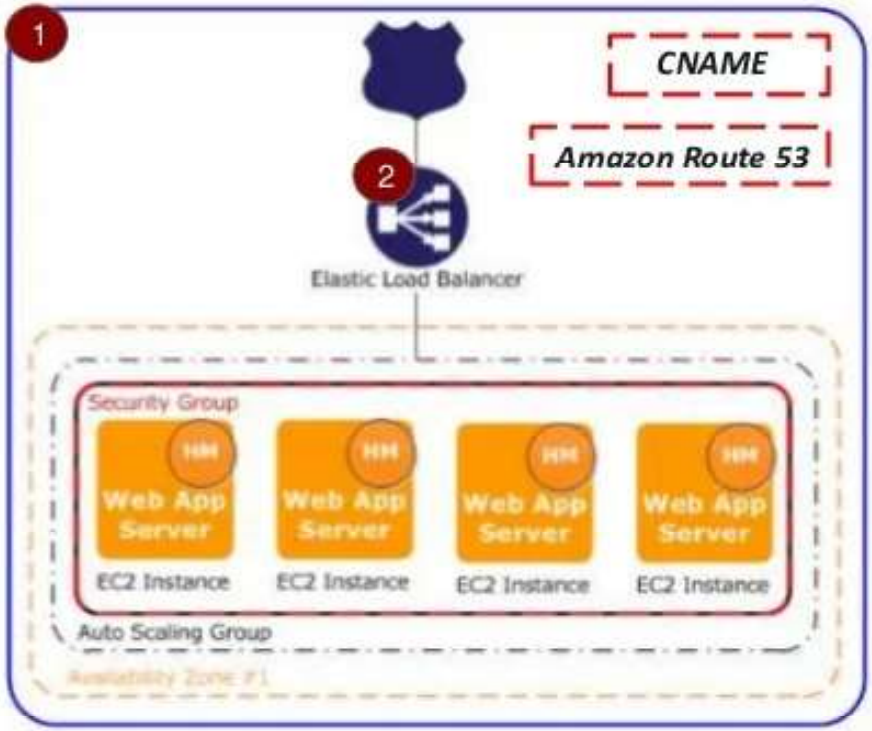

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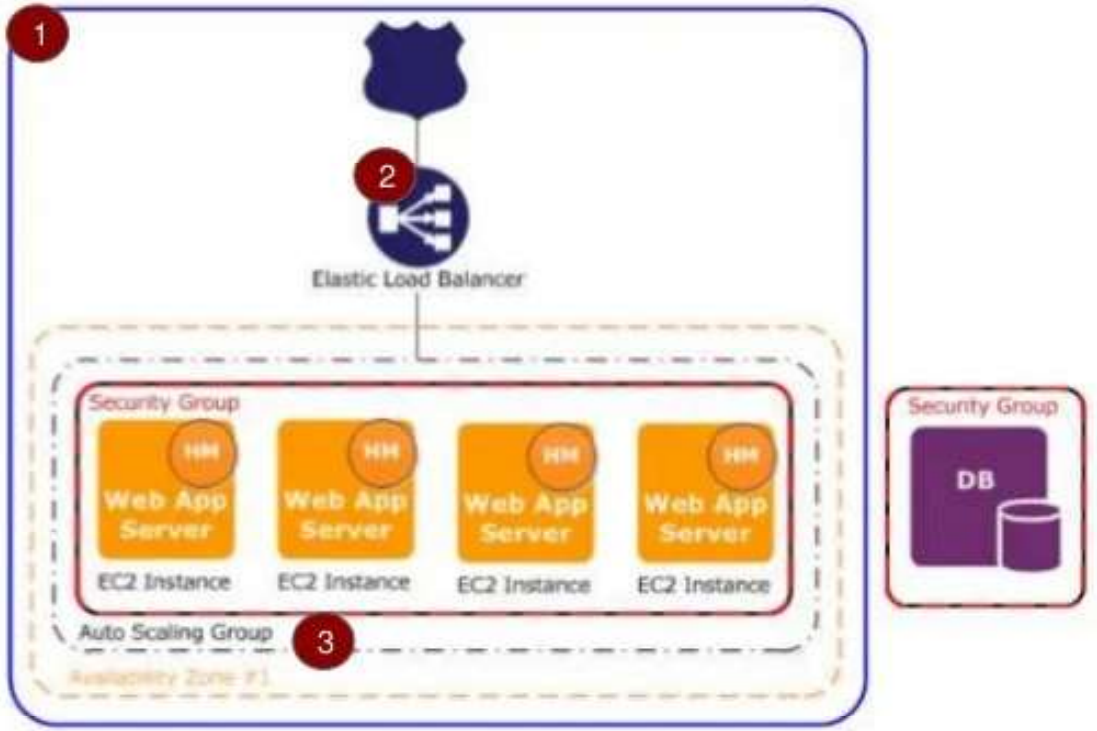

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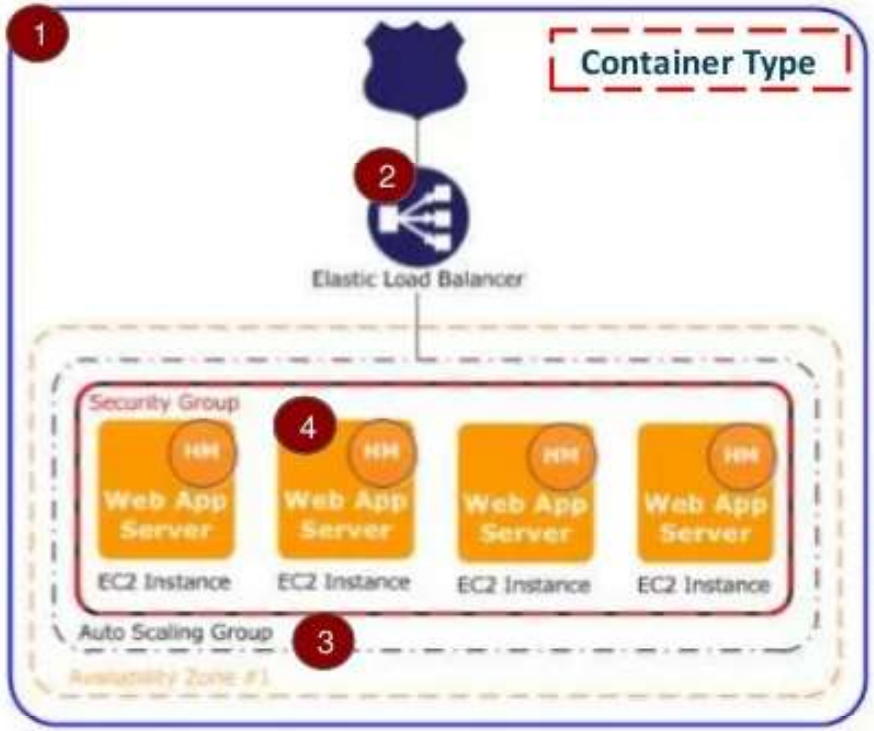

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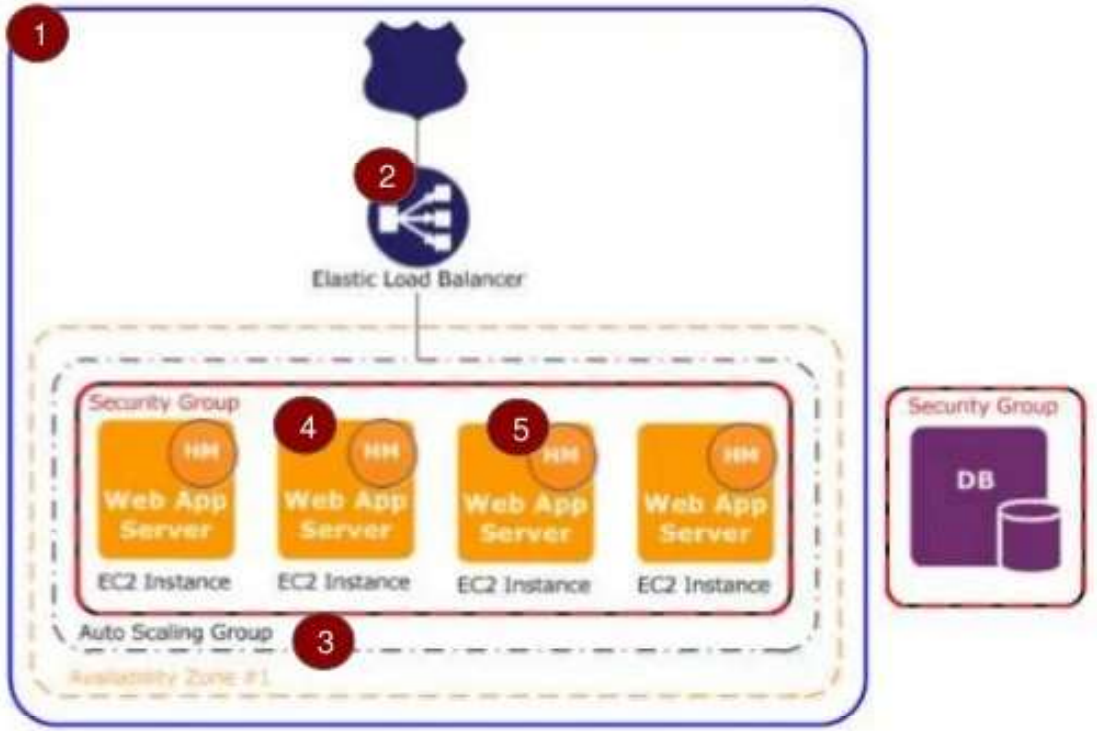

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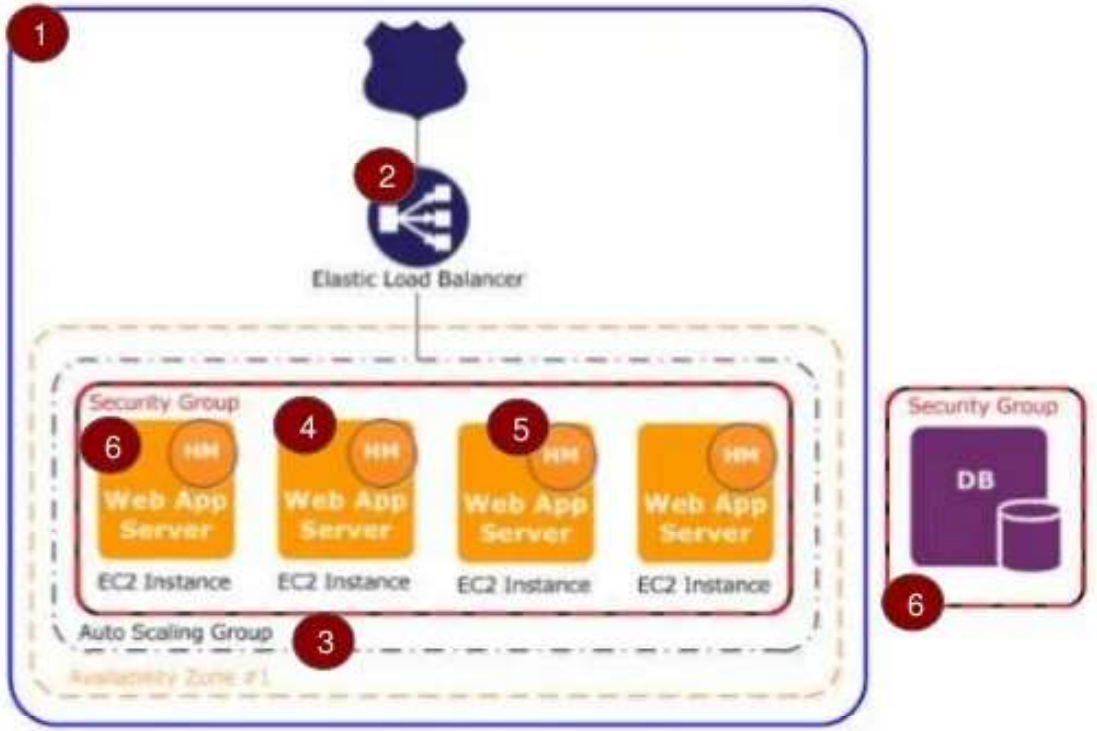

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