CLOUD COMPUTING

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Platform as a Service

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Deployment and Management Service

- Cloud-based deployment & management services allow you to easily deploy and manage applications in the cloud.

- These services automatically handle deployment tasks such as capacity provisioning, load balancing, auto-scaling, and application health monitoring

- It should be possible that the service should provide different deploying environments for various range of applications

- The underlying infrastructure that is necessary for deployment should be automatically provisioned

Deployment and Management Service

- The applications that should react for http requests should also be taken care

- The versioning of the applications should be possible with ease

Deployment and Management Service

- Amazon Elastic Beanstalk

  - Amazon provides a deployment service called Elastic Beanstalk that allows you to quickly deploy and manage applications in the AWS cloud.

  - Elastic Beanstalk supports Java, PHP, .NET, Node.js, Python, and Ruby applications.

  - With Elastic Beanstalk you just need to upload the application and specify configuration settings in a simple wizard and the service automatically handles instance provisioning, server configuration, load balancing and monitoring.

Deployment and Management Service

- Amazon CloudFormation

  - Amazon CloudFormation is a deployment management service from Amazon.

  - With CloudFormation you can create deployments from a collection of AWS resources such as Amazon Elastic Compute Cloud, Amazon Elastic Block Store, Amazon Simple Notification Service, Elastic Load Balancing and Auto Scaling.

  - A collection of AWS resources that you want to manage together are organized into a stack.

Beanstalk

- Whenever we want to host an application, we have configure system, manage servers, databases, scaling, load balancing etc.

- Most of the time the programmers have to concentrate on these things

- Beanstalk helps in reducing all these activities and helps to host/deploy your application very fast

- Beanstalk is a service that deploys, manages and scales the web application for the users

Beanstalk

- AWS provides PaaS solution called Elastic Beanstalk. It is mature PaaS than other PaaS service provider.

- Developers need not worry about infrastructure to launch an web app.

- Developers just upload the application as binary file such as projectname.war

- Developers can use application versioning to switch between previous version of application by using swap URL environment option.
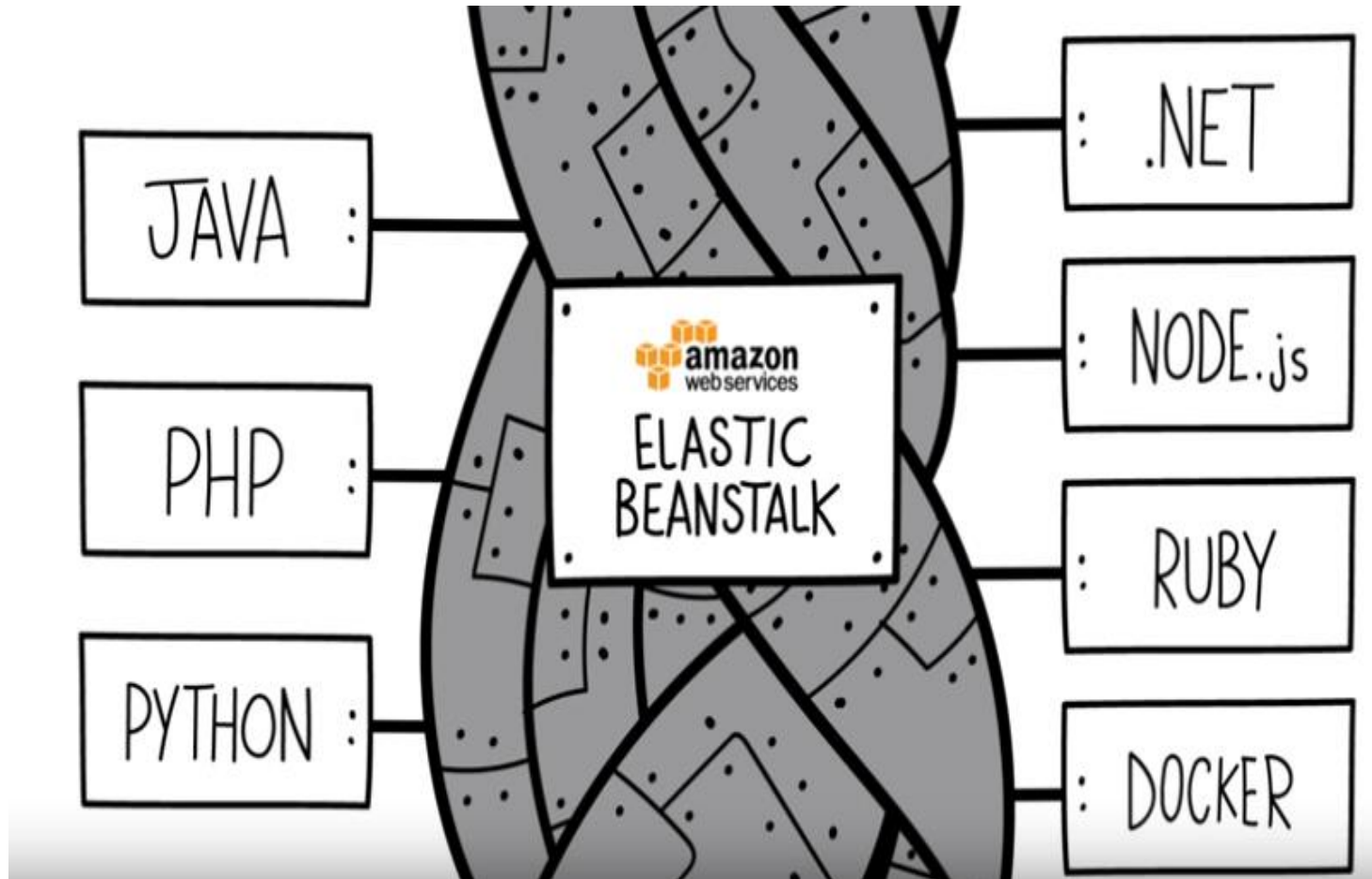
Beanstalk

- It is possible to use an existing instance instead of provisioning a new environment.

- You can create AMI of your existing instance

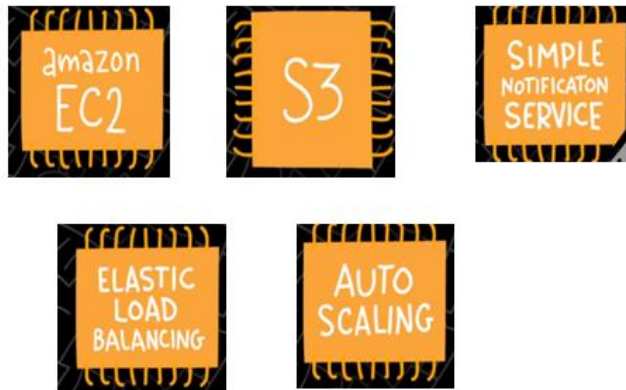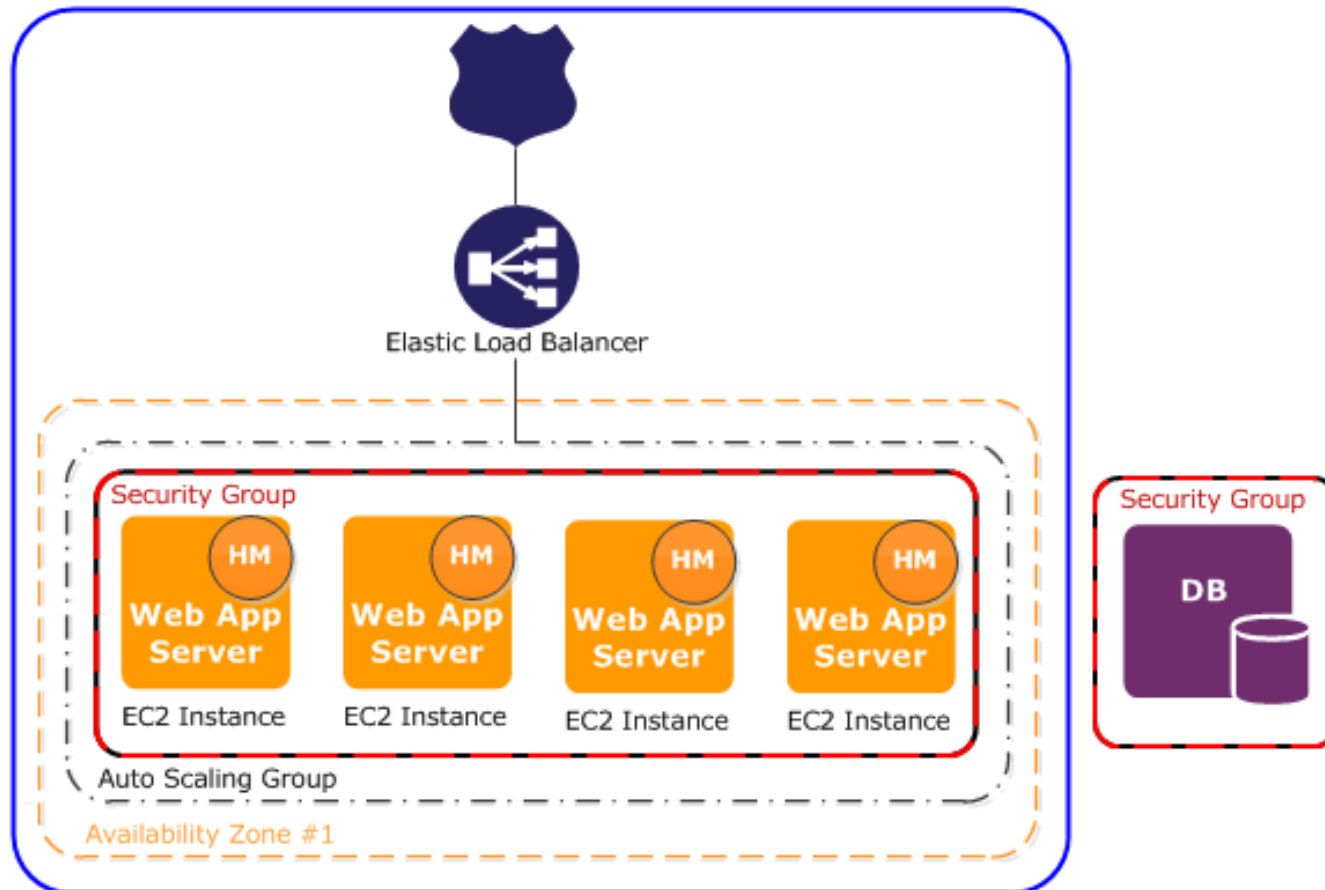- You can also use new AMI to create an instance.

Beanstalk

Beanstalk

- Servers that can be managed
    - Apache http
    - Apache tomcat
    - NginX
    - IIS
- It can communicate with other AWS services

Beanstalk

THANK YOU

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