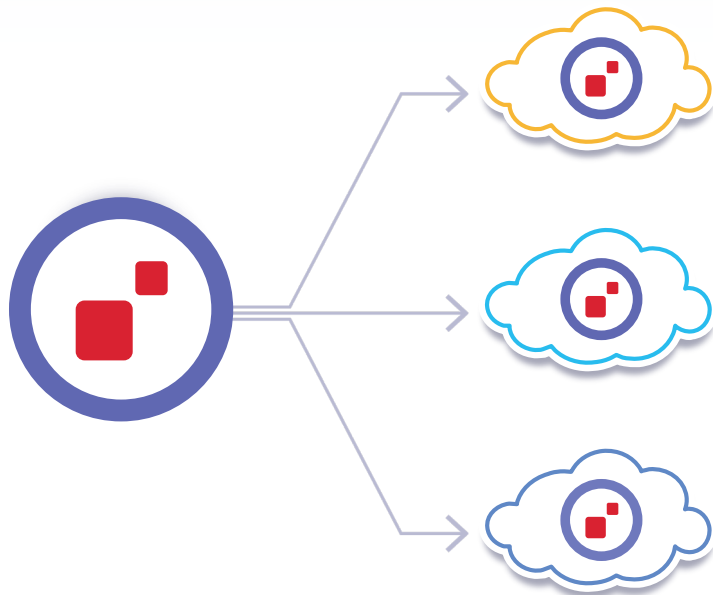




MarkLogic in the Cloud Workshop

Unit 1 – Deployment of a Cluster



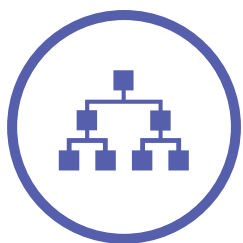
MARKLOGIC CLUSTER

Deployment on AWS

- Parameterized deployment
- Fully managed cluster
- Using CloudFormation templates

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Deployment Choice



Virtual Private Cloud

Create a new VPC or deploy to an existing VPC.



Available Zones / Number of Nodes

Multiple Availability Zone and multiple nodes per zone.

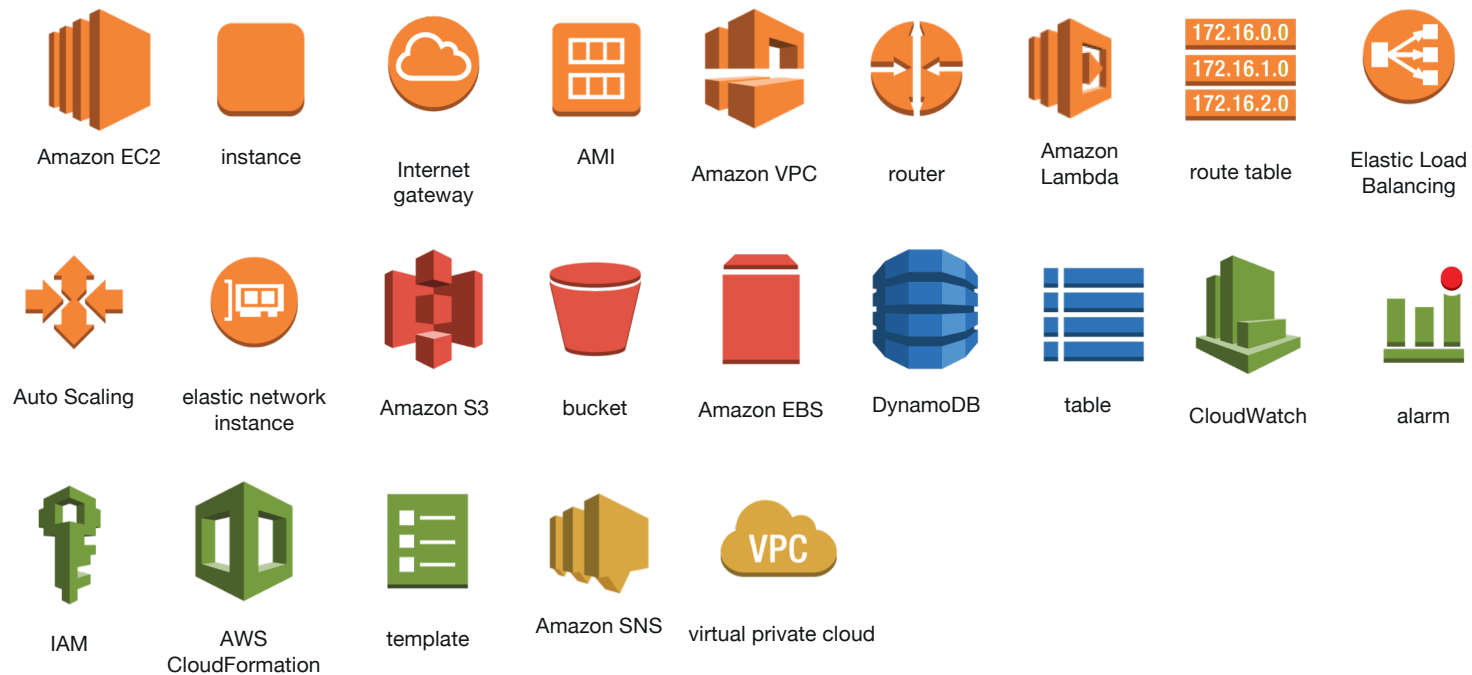


Developer / BYOL / Pay-As-You-Go

License type choices based on needs.

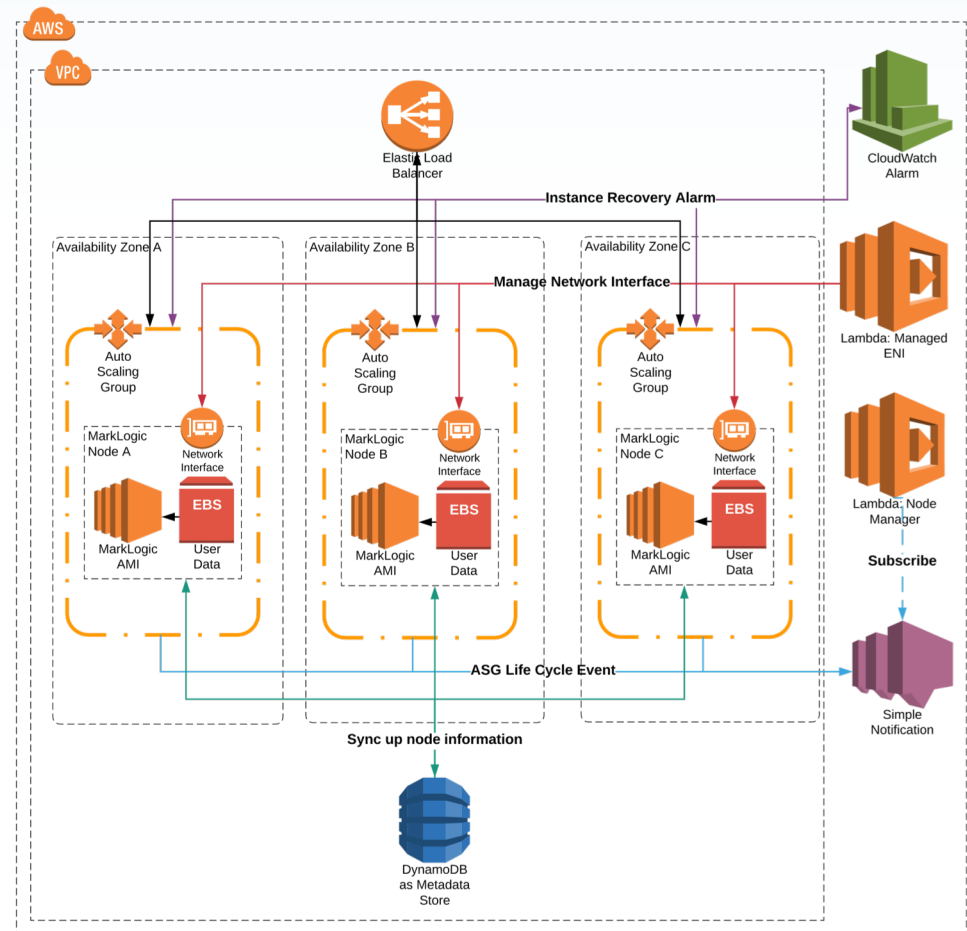
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We will use...



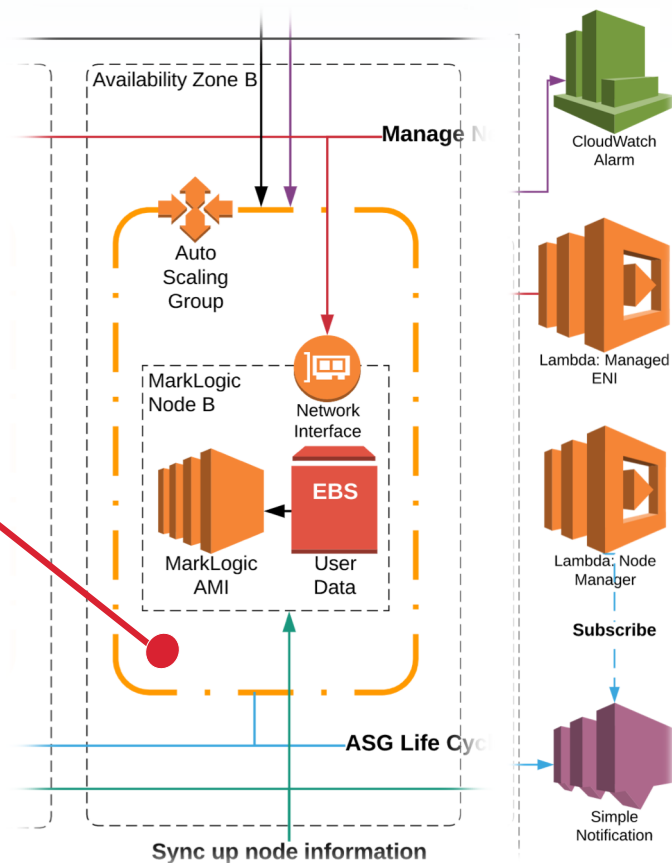
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Reference Architecture Diagram



MarkLogic Cluster on AWS

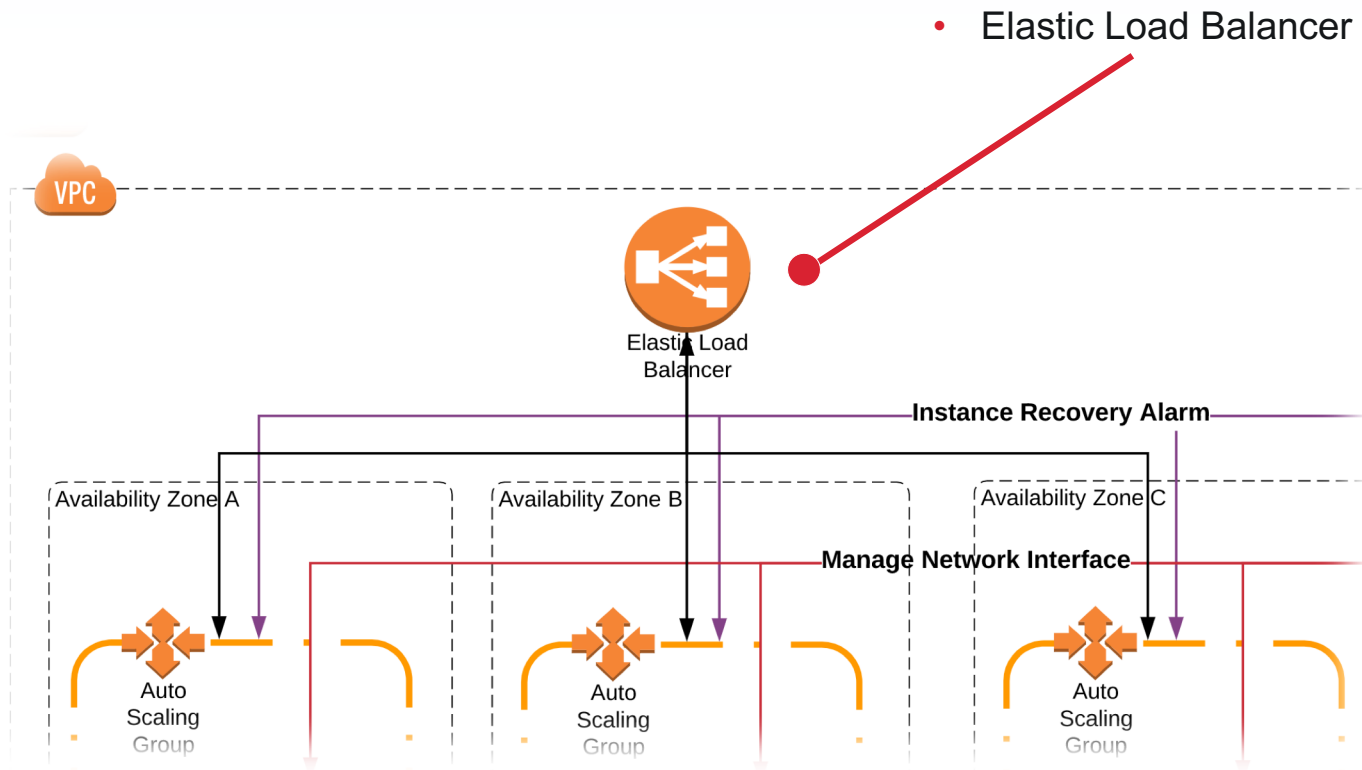
- EC2 instance running MarkLogic AMI
- Elastic Block Storage for user data
- Elastic Network Interface
- Auto Scaling Group
- Availability Zone



- CloudWatch alarm monitors node
- AWS Lambda manages ENI
- Simple Notification Service

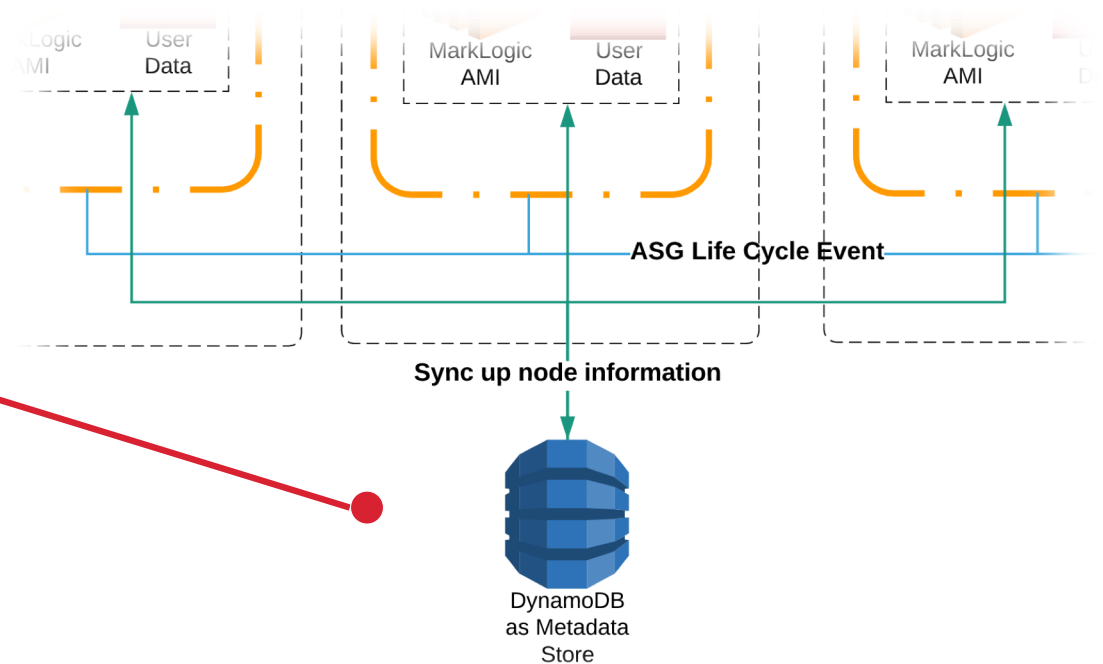
- Logging events of the cluster to SNS

MarkLogic Cluster on AWS



MarkLogic Cluster on AWS

- Using DynamoDB to store metadata of the cluster



MARKLOGIC CLUSTER

Useful Resources

- **MarkLogic Server on Amazon EC2 Guide:**
<http://docs.marklogic.com/guide/ec2>
- **MarkLogic Cloud-Enablement Github:**
<https://github.com/marklogic/cloud-enablement>
- **MarkLogic in the Cloud:**
<https://developer.marklogic.com/products/cloud>



Unit 1 exercise – Deploy Cluster

- Use CloudFormation template.
 - Customize cluster parameters.
 - Wait for the cluster to come online.
 - Check the status of running cluster.
- **DO**
 - Note the resources deployed with a managed cluster.
 - Check the nodes are forming a functional cluster.

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Unit 1 QUIZ

- What happens to the cluster if one node goes down?
- What happens to your data if one node goes down?

Questions?

Unit 1 – Deployment of a Cluster