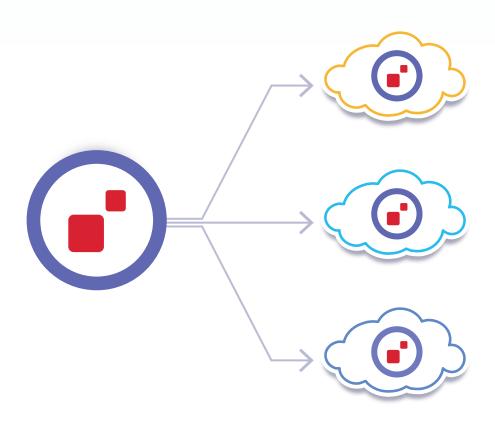


# MarkLogic in the Cloud Workshop

Unit 1 – Deployment of a Cluster

### ■ MarkLogic •



#### **MARKLOGIC CLUSTER**

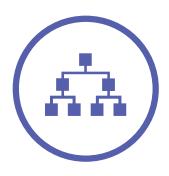
### **Deployment on AWS**

- 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 / Cluster Size

Multiple Availability Zone and multiple nodes per zone.



# Licensing Option

Developer, Pay-as-You-Go or Bring-Your-Own-License (BYOL)



### We will use...



















instance

Internet gateway

AMI

Amazon VPC

router

Amazon Lambda

route table

Elastic Load Balancing



















**Auto Scaling** 

elastic network instance

Amazon S3

bucket

Amazon EBS

DynamoDB

table

CloudWatch

alarm







**AWS** CloudFormation



template



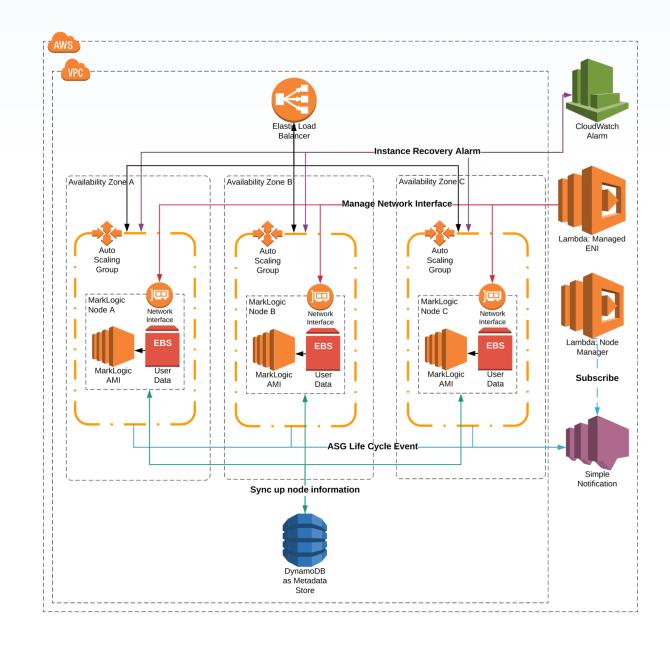
Amazon SNS



virtual private cloud



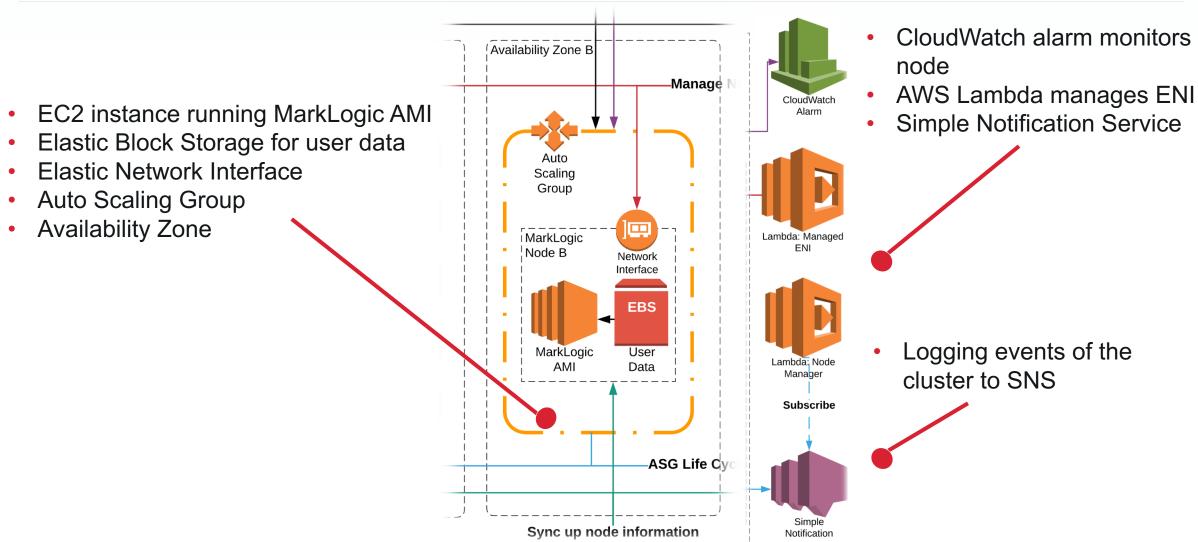
## Reference Architecture Diagram



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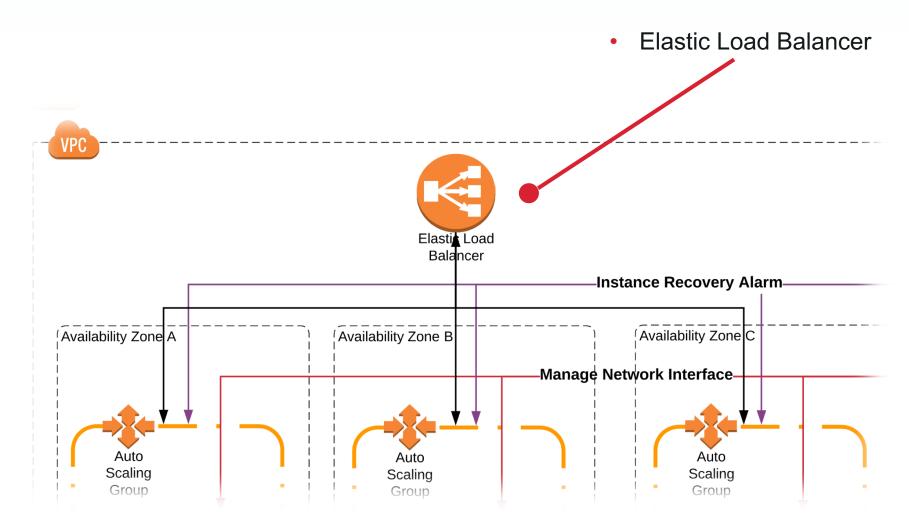
### MarkLogic Cluster on AWS



SLIDE: 6



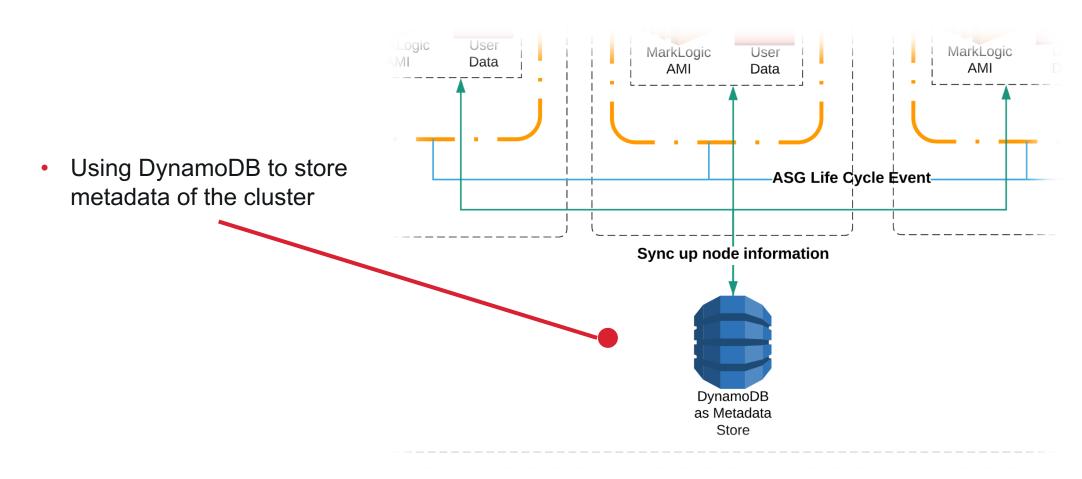
## **MarkLogic Cluster on AWS**



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## **MarkLogic Cluster on AWS**



SLIDE: 8 © 2018 MARKLOGIC CORPORATION



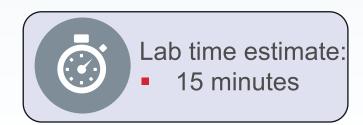
### **Useful Resources**

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

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- 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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Lab time estimate:

15 minutes

- Deploy a cluster into existing VPC
- Single node cluster

#### DO

- Notice the difference of configuration parameters.
- Check the nodes are forming a functional cluster, but only one node.

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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?

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# Questions?

Unit 1 – Deployment of a Cluster