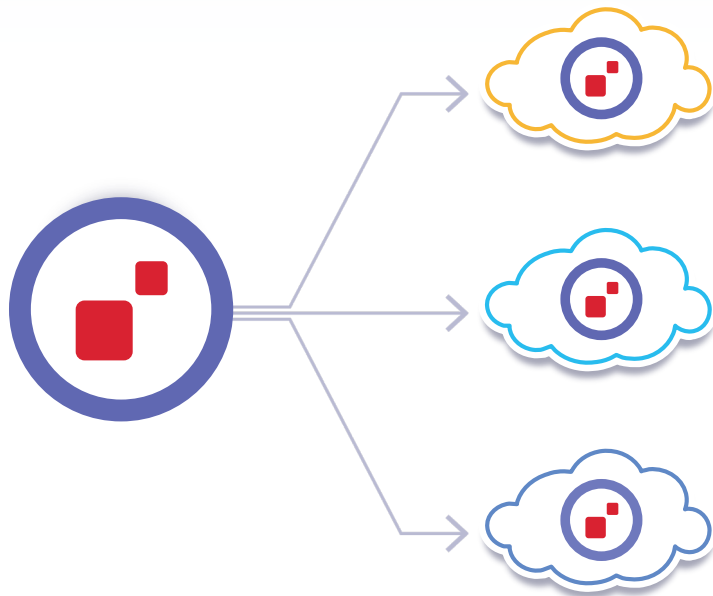# MarkLogic in the Cloud Workshop

Unit 1 – Deployment of a Cluster

MARKLOGIC CLUSTER

Easy Deployment on Azure

- Parameterized deployment
- Interactive setup guidance
- Using Azure Solution Templates

MARKLOGIC CLUSTER

Deployment Choice

Size of Cluster / Number of Nodes

Single node cluster or multiple node cluster.

Developer License / Bring Your Own

License type choices based on needs.

Cluster Resource Configuration

High Availability, Load Balancing, Storage Type

We will use…

Azure Load Balancer

Network Security Group

Blob Storage

Resource Group
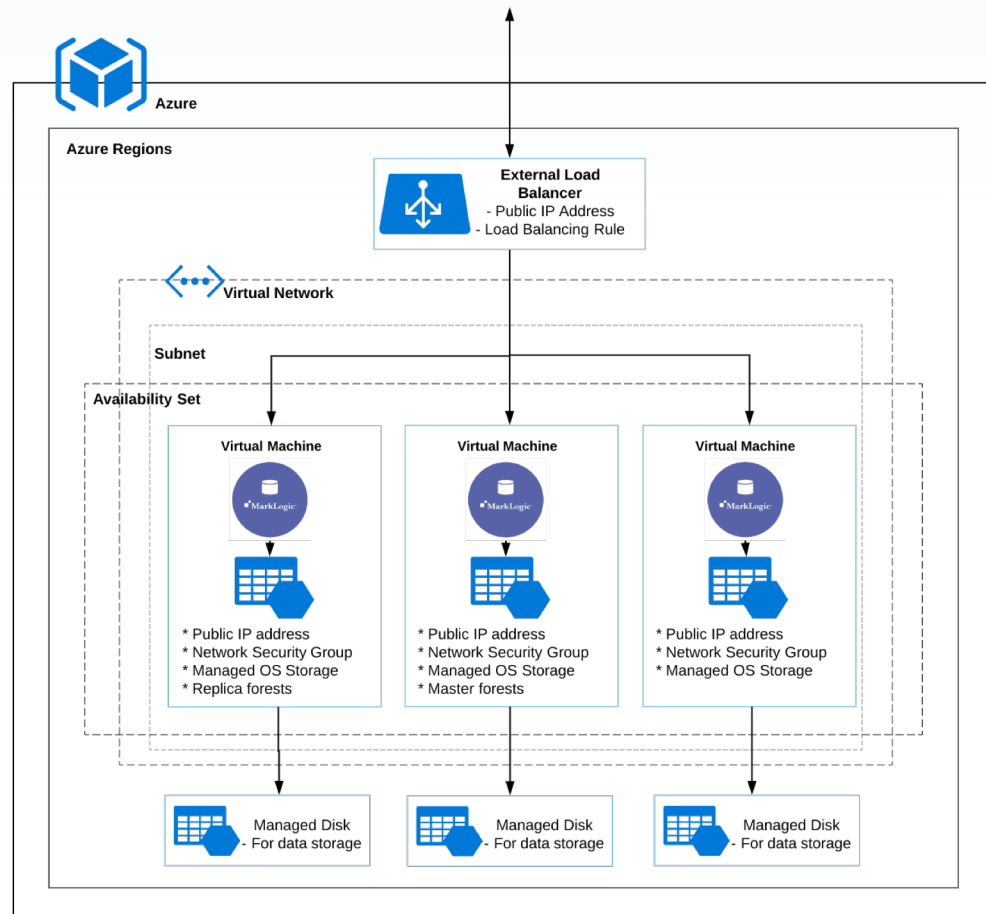

Azure Management Portal

Azure Virtual Network

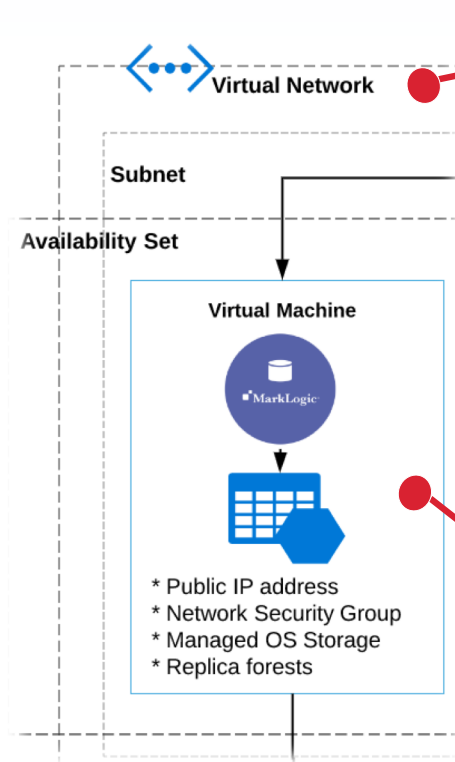OS Image

Azure Linux Virtual Machine

MarkLogic®

MARKLOGIC CLUSTER

Reference Architecture Diagram

Azure

Azure Regions

External Load Balancer
- Public IP Address
- Load Balancing Rule

Virtual Network

Subnet

Availability Set

Virtual Machine

MarkLogic

* Public IP address
* Network Security Group
* Managed OS Storage
* Replica forests

Virtual Machine

MarkLogic

* Public IP address
* Network Security Group
* Managed OS Storage
* Master forests

Virtual Machine

MarkLogic

* Public IP address
* Network Security Group
* Managed OS Storage

Managed Disk
- For data storage

Managed Disk
- For data storage

Managed Disk
- For data storage

MarkLogic Cluster on Azure

- Nodes are placed in Azure Availability Set.

- The cluster is completely in Virtual Network

Virtual Network

Subnet

Availability Set

Virtual Machine

* Public IP address
* Network Security Group
* Managed OS Storage
* Replica forests

- Linux VM running MarkLogic Image
- Managed OS Disk
- Public IP Addresses
- Network Security Group

MarkLogic Cluster on Azure

- Internet-facing Load Balancer

- Managed Disk for user data
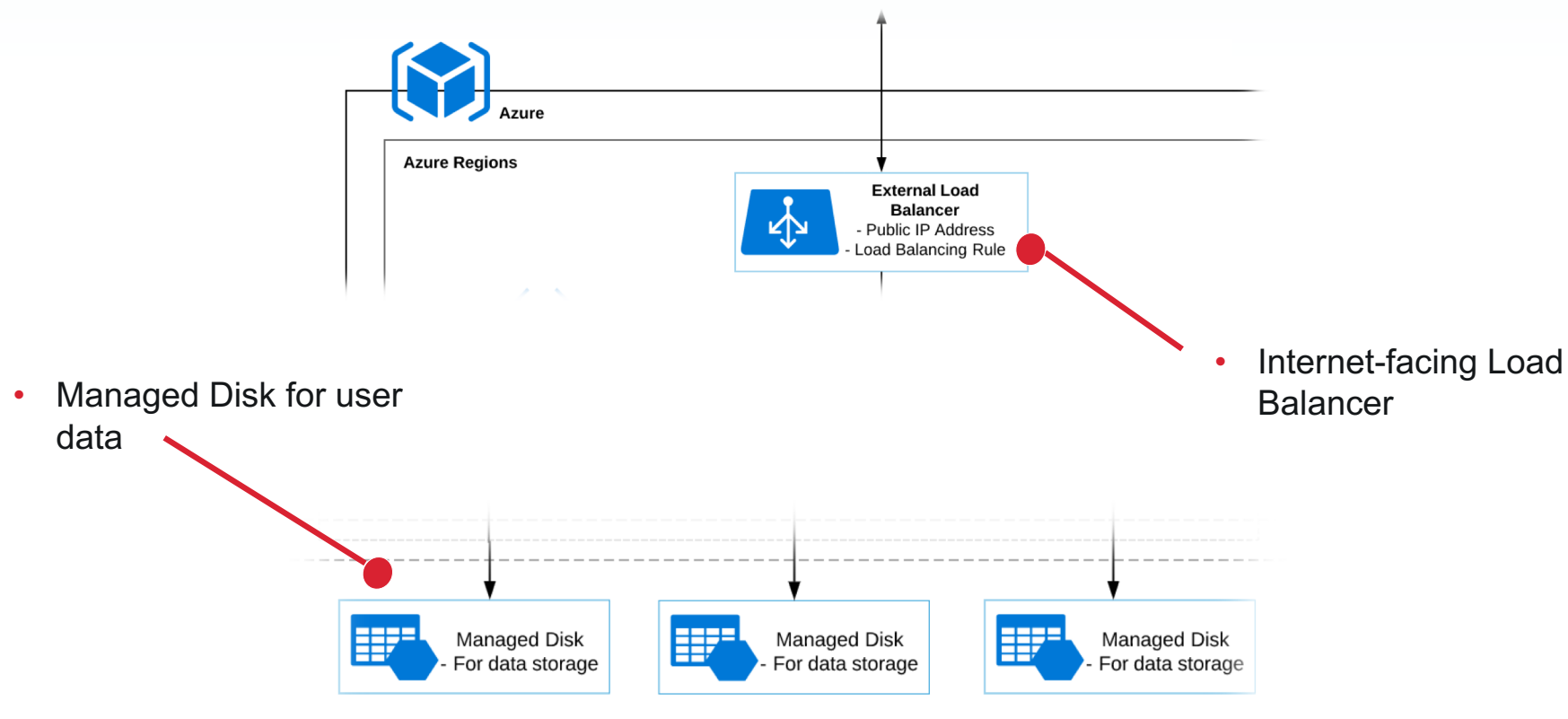
MarkLogic

Useful Resources

- **MarkLogic Server on Microsoft Azure Guide:**

- http://docs.marklogic.com/guide/azure

- **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 Solution Template.

- Customize cluster settings.

    - Wait for the cluster to come online.

- Check the status of running cluster.

- **DO**

    - Note the resources deployed with the cluster.

    - Check the nodes are forming a functional cluster.

MARKLOGIC CLUSTER

Unit 1 QUIZ

- How do you scale up the cluster?

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

Questions?

Unit 1 – Deployment of a Cluster