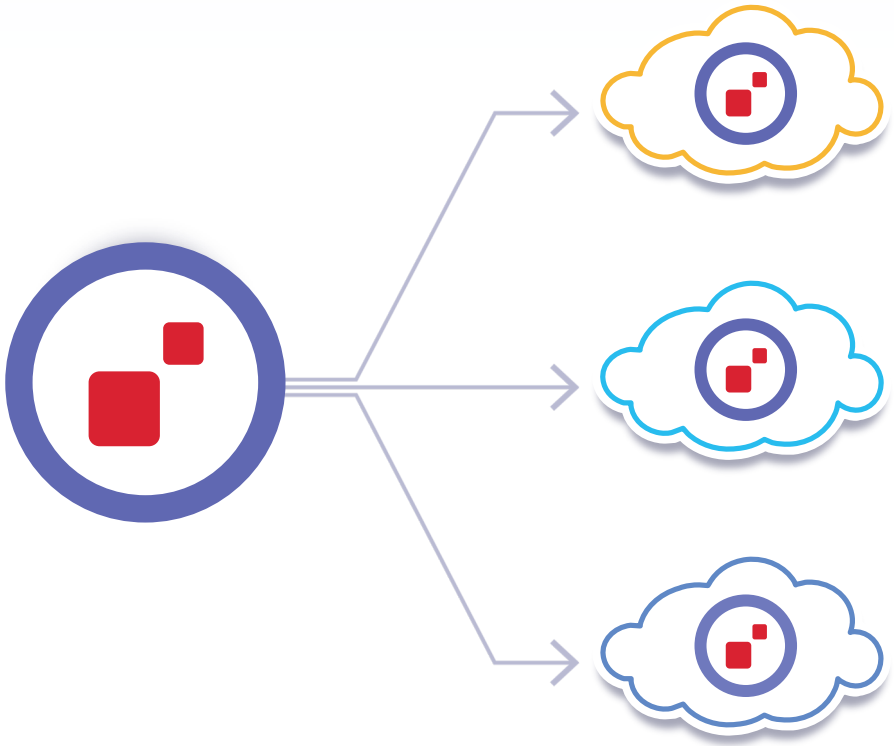
MarkLogic

# MarkLogic in the Cloud Workshop

Unit 1 – Deployment of a Cluster

© 2018 MARKLOGIC CORPORATION



MARKLOGIC CLUSTER

# Easy Deployment on Azure

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



© 2018 MARKLOGIC CORPORATION

MARKLOGIC CLUSTER

# Deployment Choice

## Cluster Size

Single node cluster or multiple nodes cluster.

## License Option

Developer License or Bring Your Own License

## Resource Config

HA, Load Balancing, Storage Type



© 2018 MARKLOGIC CORPORATION

MarkLogic

## MARKLOGIC CLUSTER

# 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

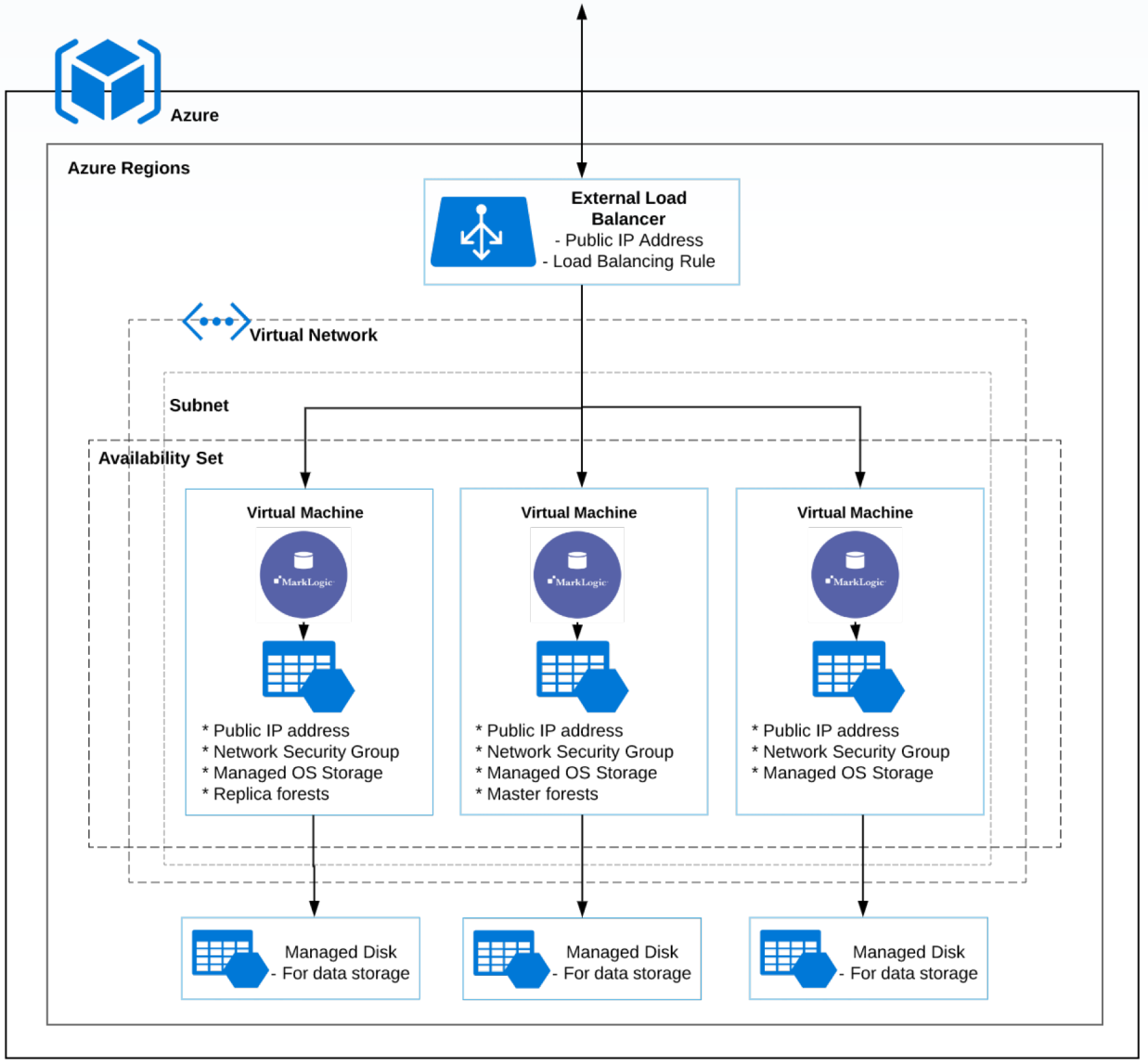


© 2018 MARKLOGIC CORPORATION

MarkLogic

MARKLOGIC CLUSTER

# Reference Architecture Diagram

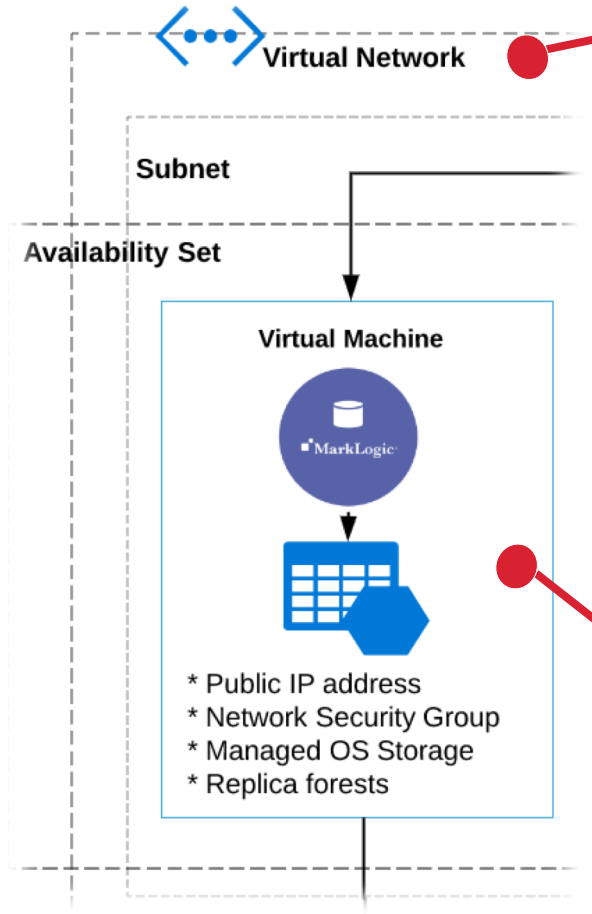





© 2018 MARKLOGIC CORPORATION

# MarkLogic Cluster on Azure

- Nodes are placed in Azure Availability Set.

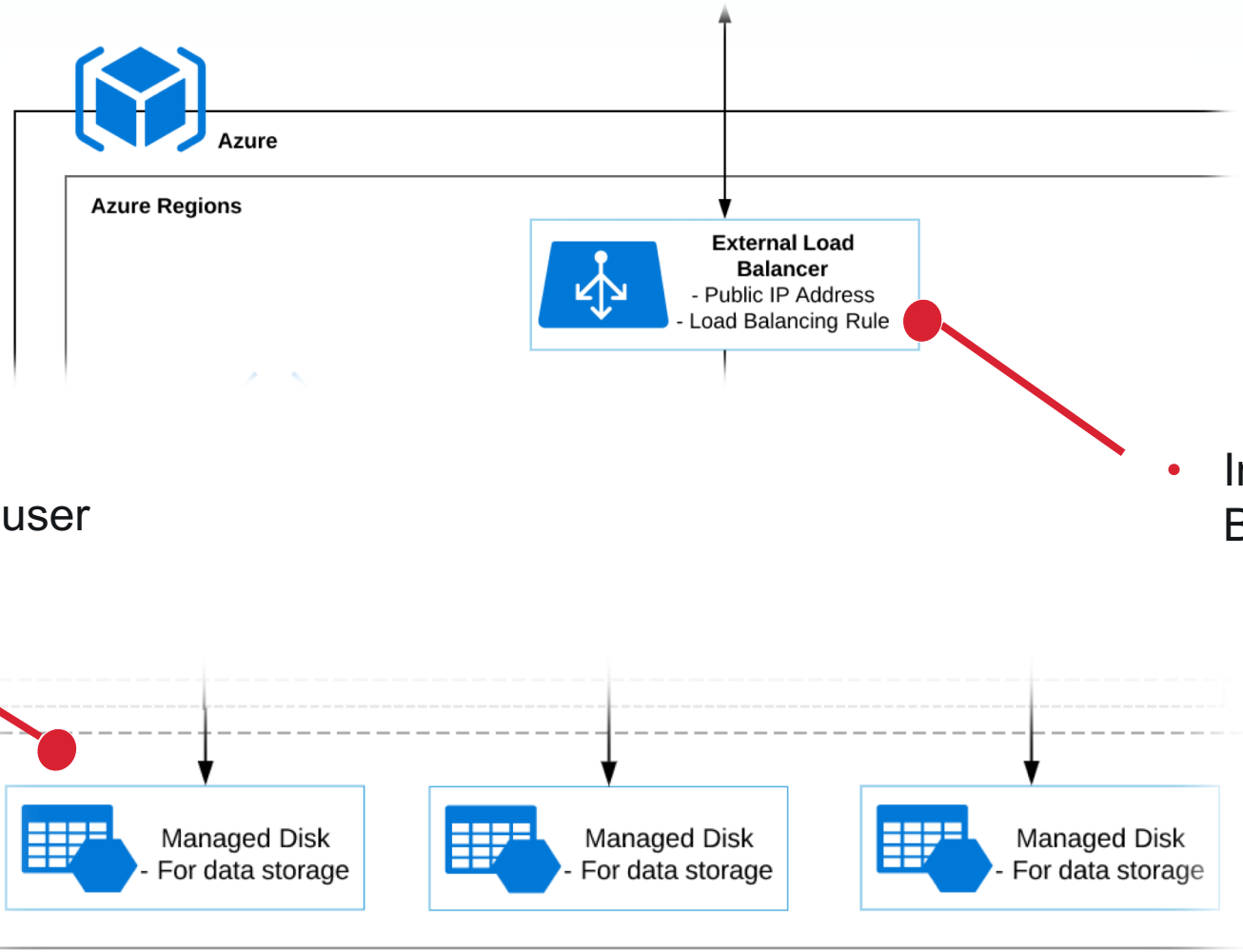



- The cluster is completely in Virtual Network

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


© 2018 MARKLOGIC CORPORATION

# MarkLogic Cluster on Azure




- Internet-facing Load Balancer
- Managed Disk for user data


© 2018 MARKLOGIC CORPORATION

# 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



© 2018 MARKLOGIC CORPORATION

MarkLogic

# Unit 1 Exercise – Deploy Cluster

Lab time estimate:
- 15 minutes

- 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.


© 2018 MARKLOGIC CORPORATION

MarkLogic

# Unit 1 Optional Exercise

- Deploy a single node cluster using same steps.
- DO
  - Notice the difference of cluster configurations when setting up
  - Check the single node cluster running status


© 2018 MARKLOGIC CORPORATION

MARKLOGIC CLUSTER

# Unit 1 QUIZ

- How do you scale up the cluster?
- What happens to your data if one node goes down?



© 2018 MARKLOGIC CORPORATION

MarkLogic

# Questions?

Unit 1 – Deployment of a Cluster

© 2018 MARKLOGIC CORPORATION