Deploying a Highly Available Virtual Machine

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Overview

Availability sets
- Planning for VM uptime

VM deployment
- Windows Server, Linux
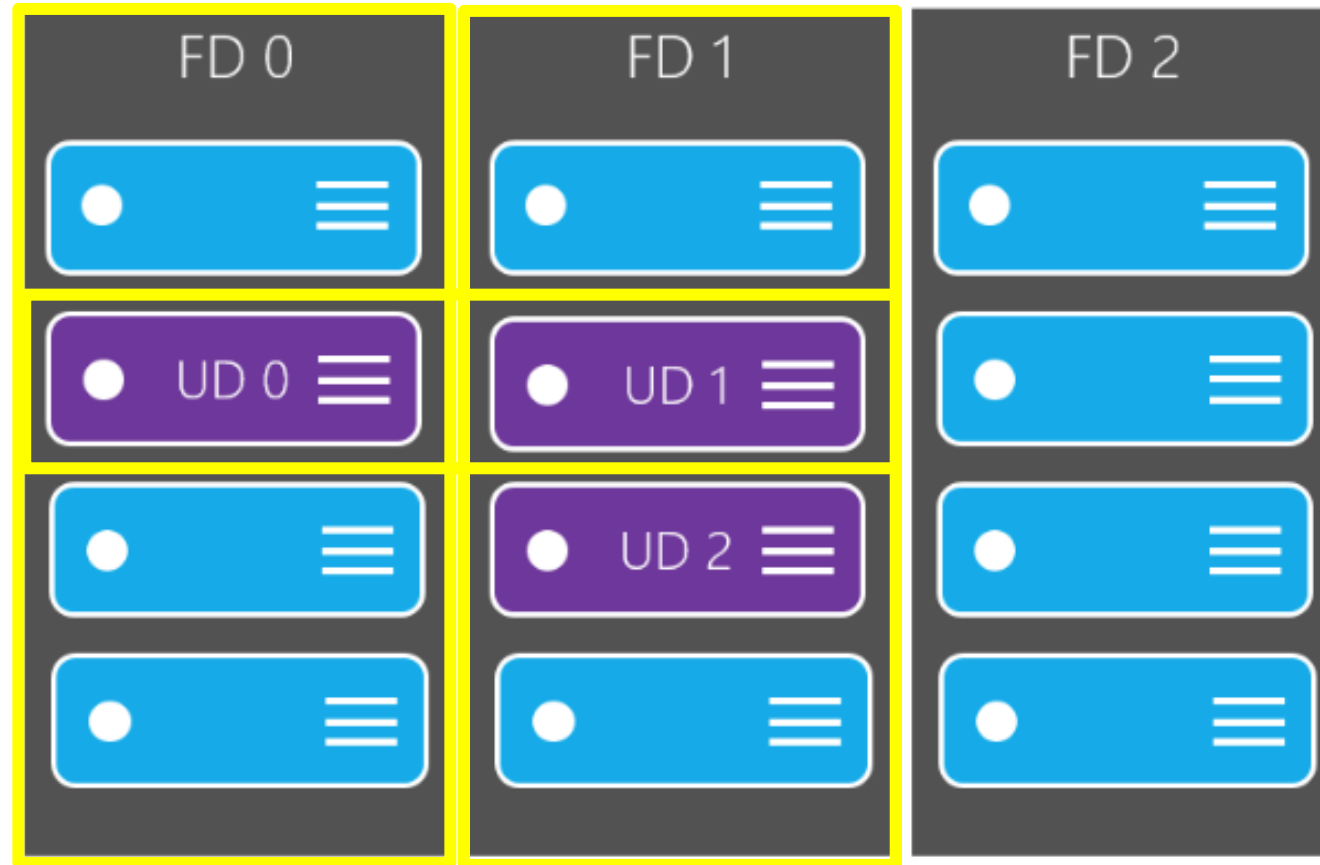
Availability Sets

Fault and Update Domains

99.95% SLA (except for premium storage)

Fault domains are VMs that share the same power source and switch

3 fault domains available

FD 0   FD 1   FD 2

UD 0   UD 1

UD 2

Update domains are VMs that share the same hardware host

5-20 update domains available

Place VMs of each app tier into their own availability sets

http://timw.info/fud

Demo

Create an availability set

Add two VMs into the set

Add an already-created VM into the set by using a community script

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VM Deployment

VM Deployment Methods

Azure Portal

PowerShell

Azure CLI

ARM templates

Azure SDK

Best Practices to Keep in Mind

Virtual Network
Create before deployment

Availability Set
Associate during deployment

NSG
Create before deployment

Naming Convention
Develop and use one

Deployment Script
Save it

Demo

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Show a previously created virtual network

Create an NSG

Deploy a new VM into the network/use NSG

Review stop/deallocation workflow

Summary

asdf

Next module: Implementing Configuration Management and Disaster Recovery