Inside the VM

Overview

What you need to think about to be successful

Administering your Azure VMs

- RDP, PowerShell, SSH

Deploying VM extensions

- Antimalware
- Backup
- Configuration management

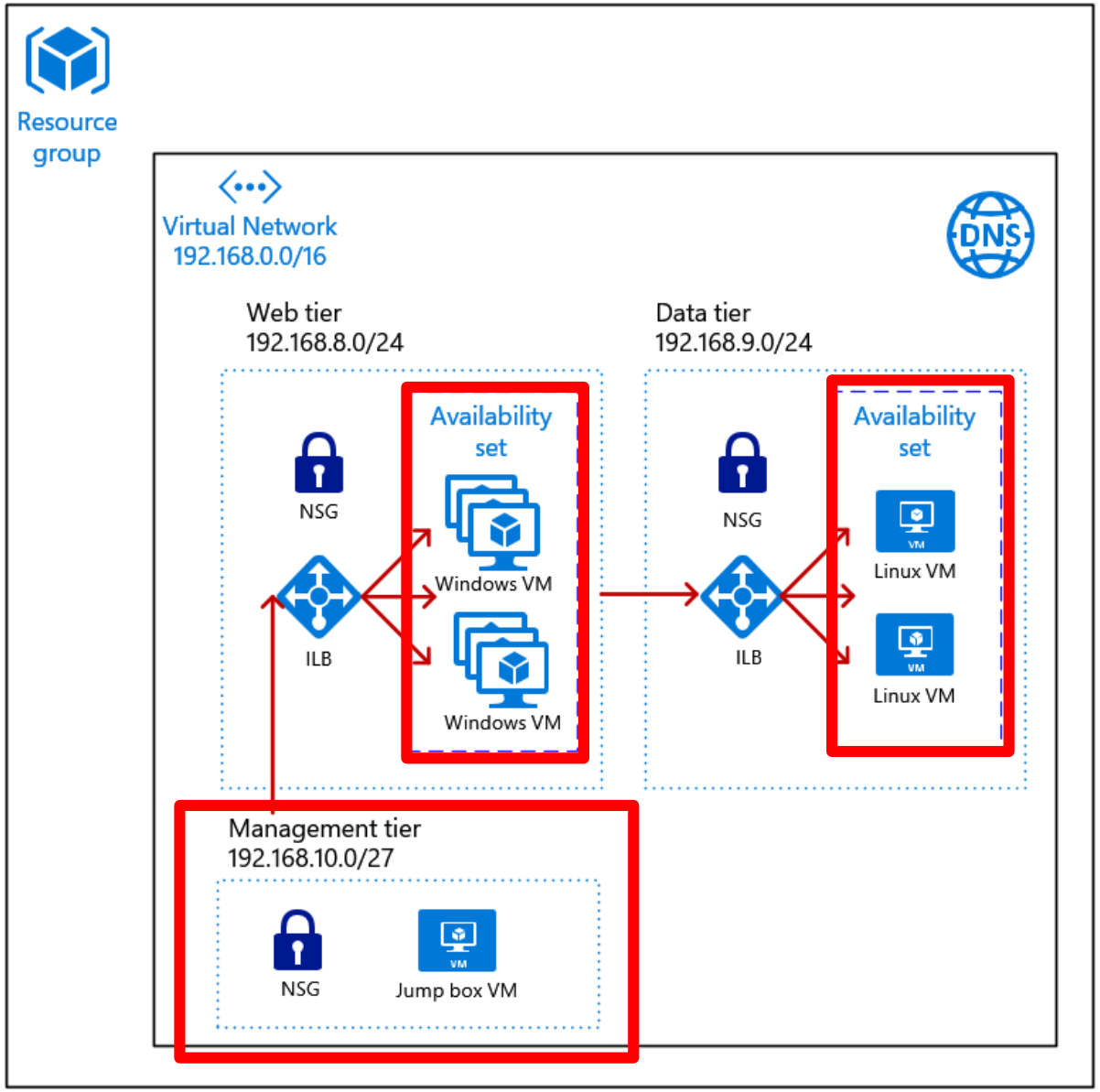
Our Solution

NSG endpoint

P2S VPN

S2S VPN

ExpressRoute



Security

Convenience

Monitoring

Things to Keep in Mind Regarding Azure VM Management

NSG rules

Premium storage offers 99.9% for single VMs

Combine Azure Load Balancer with Avail. Sets

Need availability sets for 99.95% SLA

Shared responsibility model

Use separate storage accounts for each VM

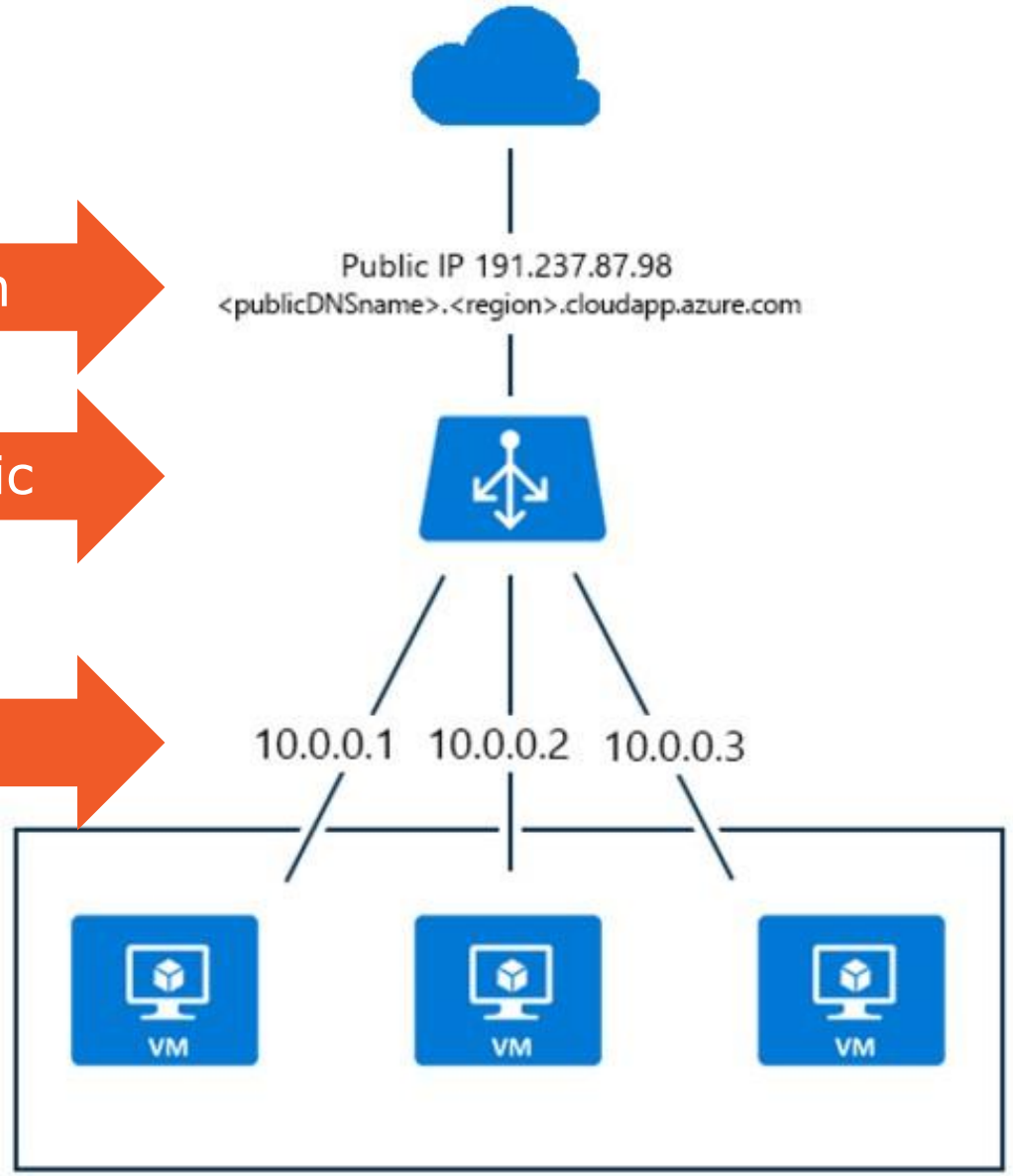
Administering Your Azure VMs

Azure External Load Balancer

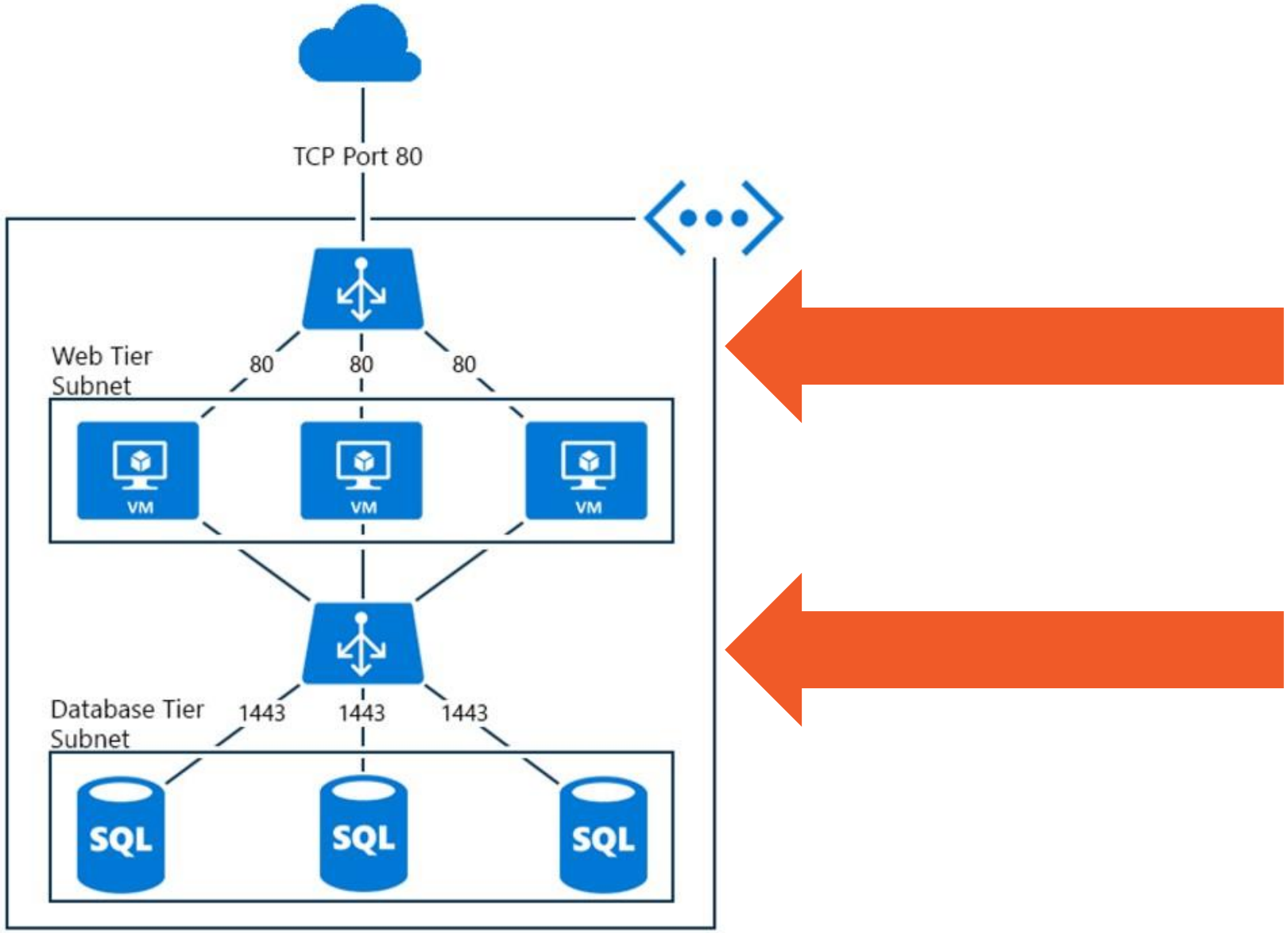
app.company.com

NSG restricts traffic

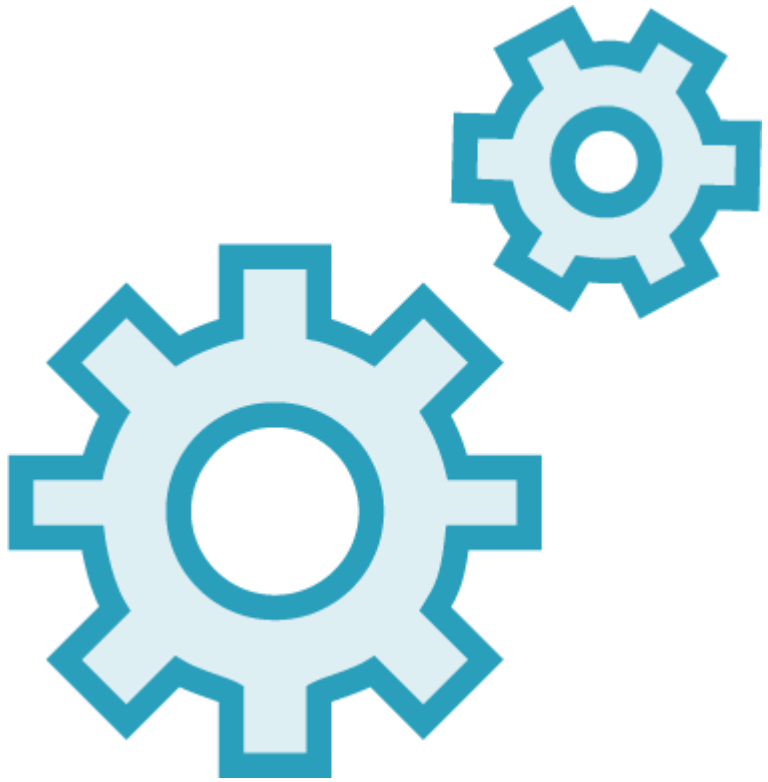
distributed load



Azure Internal Load Balancer



Azure VM Configuration Options



Touching each machine individually

- Pets vs. cattle metaphor

Azure Automation DSC

- Part of Operations Management Suite (OMS)

System Center Configuration Manager

Third-party CM platforms

- Chef
- Puppet

Azure VM extensions

Deploying VM Extensions

What are VM Extensions?

Windows and Linux Azure agents are automatically installed

You need to be a whitelisted extension publisher to appear in the portal

You're always free to install agents directly in the VM

The Linux agent and Microsoft Linux extensions are at GitHub

Demo

1

Work from Azure jumpbox (mention Don's article)

Try Test-Connection

Work with DNS server addresses

PowerShell remoting / DSC push

Linux: SSH

- install mysql

Demo

2

Show Linux extensions in portal

Install Custom Script extension on Windows VM

- Log in to make sure it worked

Find, manage, install, uninstall

- PowerShell
- CLI