

# Networking

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# Overview

What you need to think about to be successful

NICs and IP addresses

Azure VPN Gateway



# Exercise Files

What do you want to learn?

Timothy

## Getting Started with Azure Machine Learning

by Jerry Kurata

Machine learning helps predict the weather, route you around traffic jams, and display personalized ads on your web pages. In this course, you will learn how to use Azure machine learning in order to create, deploy, and maintain predictive solutions.

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Table of contents Description **Exercise files** Discussion Recommended

These exercise files are intended to provide you with the assets you need to create a video-based hands-on experience. With the exercise files, you can follow along with the author and re-create the same solution on your computer. We find this to be even more effective than written lab exercises.

[Download exercise files](#)

Course author

**Jerry Kurata**

Jerry Kurata is a Solutions Architect at InStep Technologies.

Course info

Level	Beginner
Rating	★★★★★
My rating	★★★★★
Duration	2h 14m
Released	2 Nov 2016

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# What You Need to Think About to Be Successful



# Things to Keep in Mind Regarding Azure Networking

Most regions support dual-stack IP

Vnet-to-Vnet requires a VPN

Configuring a local VPN gateway has complexity

Reserved public IPs can be chargeable

Remember NSG and Windows Firewall

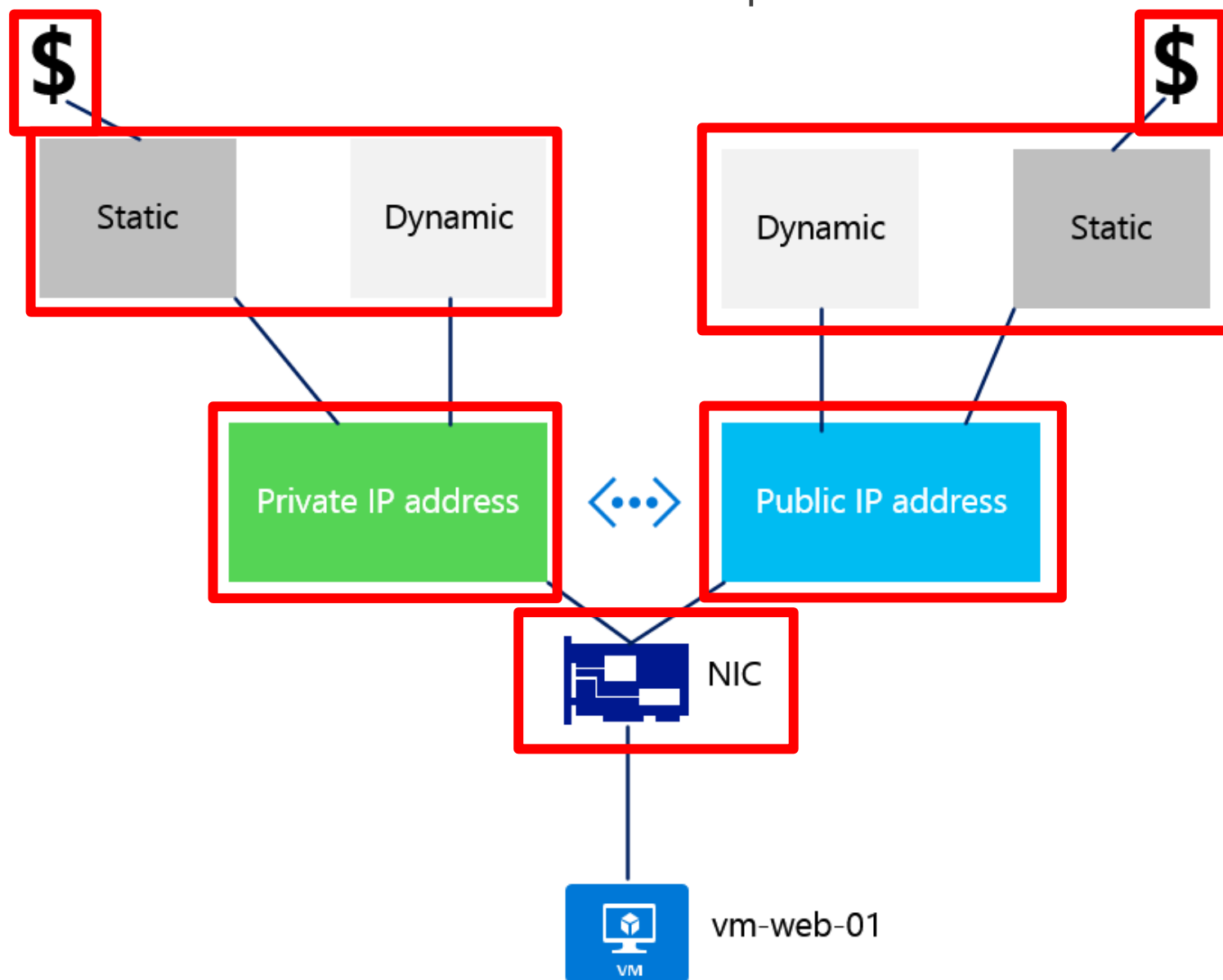
Azure DNS questions



# NICs and IP Addresses



# IP Address Options



# Demo



1

**Review our environment from the previous module. Show:**

- Availability sets
- Load balancers
- Virtual network > Custom DNS

**Show IP Pricing page**

**Review public and private IPs. Show:**

- Configuration of web01 VM

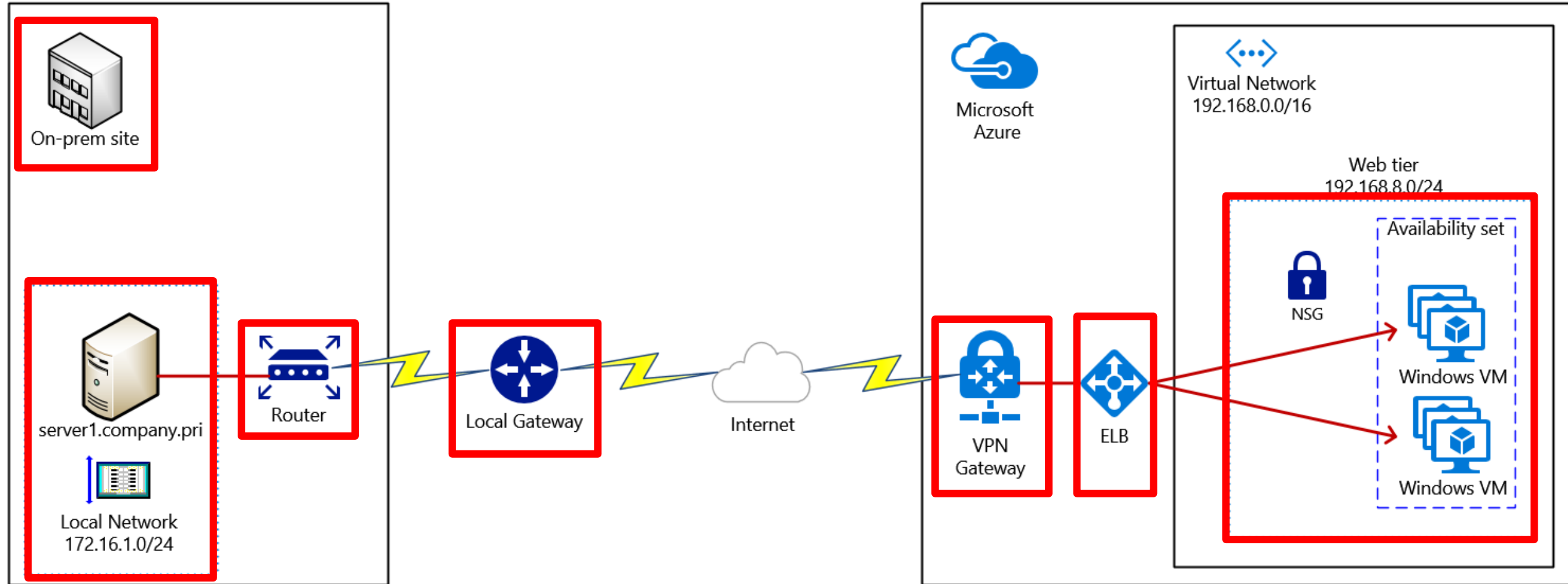




# Azure VPN Gateway



# Our Solution



# Demo



# 2

Tour the Azure S2S VPN workflow

Show the on-premises DC and its IP configuration

Attempt to join domain from the cloud



# For Further Learning

Implementing and Securing Windows Server 2016 Core Networking (Ben Piper)

Nice method to get grounded in Windows-based TCP/IP

Deploy Azure Virtual Networks, VPNs, and Gateways (Gary Grudzinskas)

A great case-study approach to learning the Azure hybrid cloud





# Microsoft Azure Security Infrastructure



## Book Reference

Published September 2016

See Chapter 3, "Azure Network Security"



# Summary



Mastering Azure networking requires a broad understanding of TCP/IP internetworking in general

CompTIA Network+ certification

Next module: **Security**

