Deploying Multiple VMs in Microsoft Azure

CREATING A VM IMAGE LIBRARY

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MVP Microsoft® Most Valuable Professional

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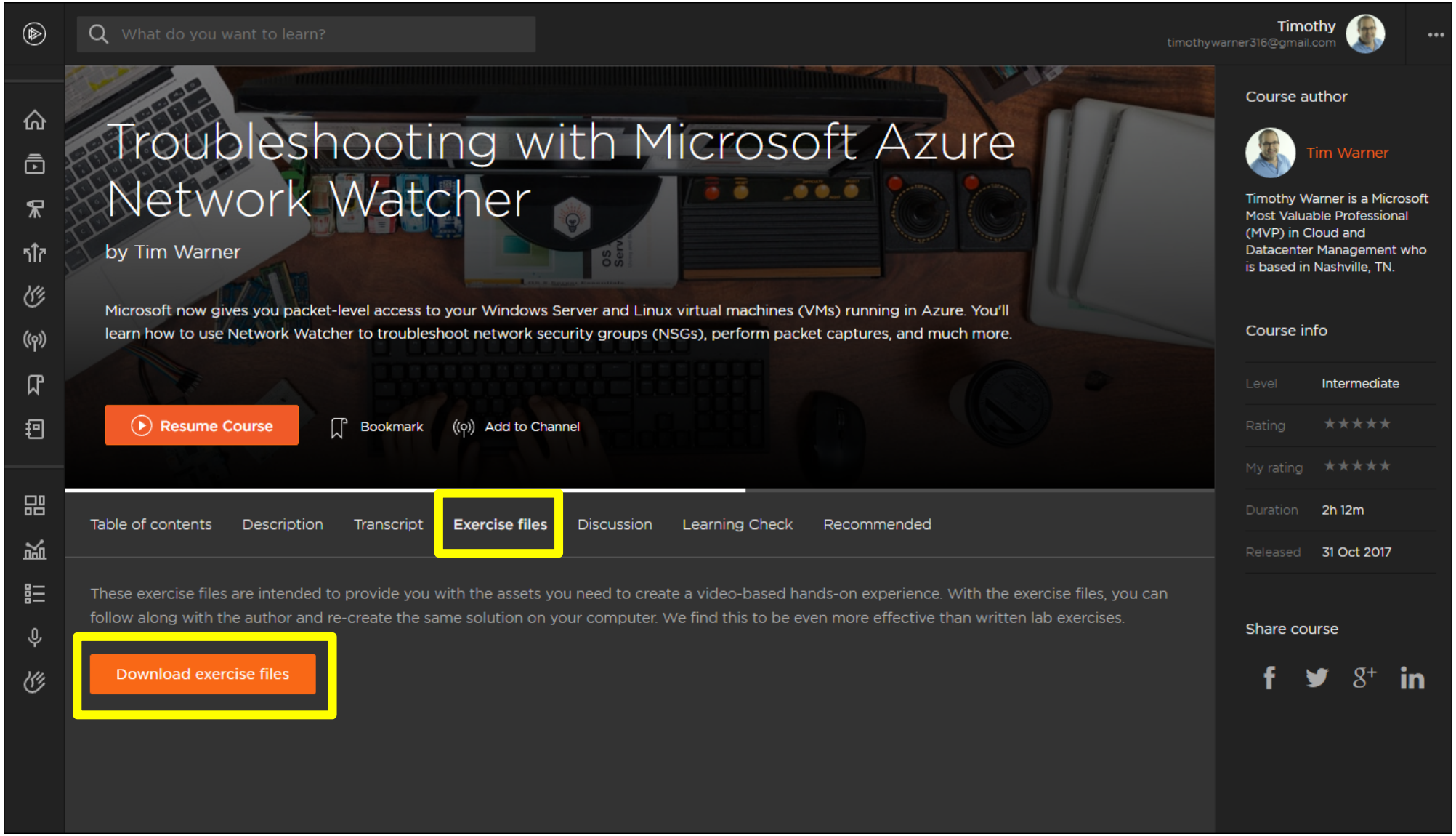
Overview

Generalize a Windows Server or Linux VM running in Azure

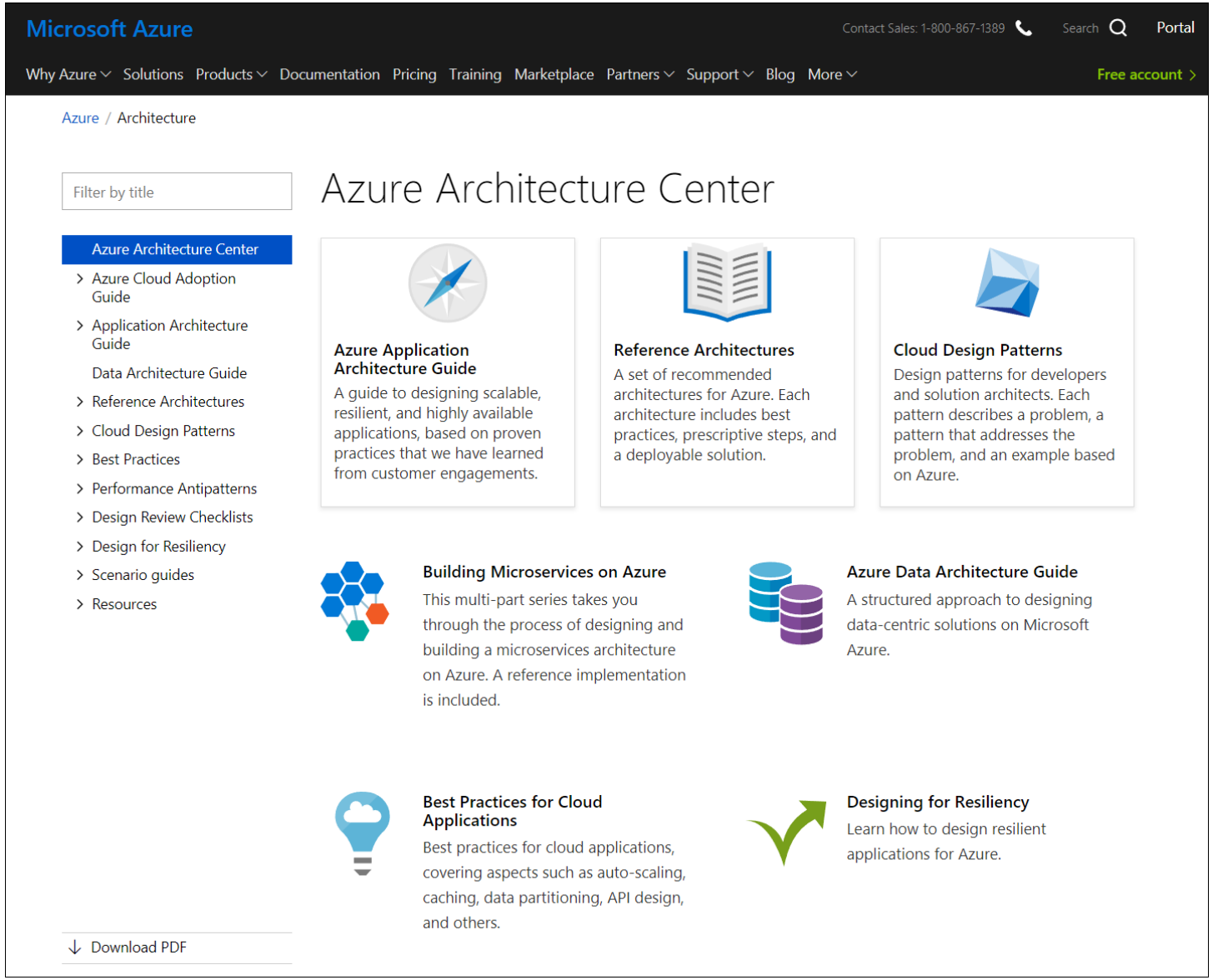
Capture the VM image

Deploy a new VM based on the image

Exercise Files



Azure Architecture Center



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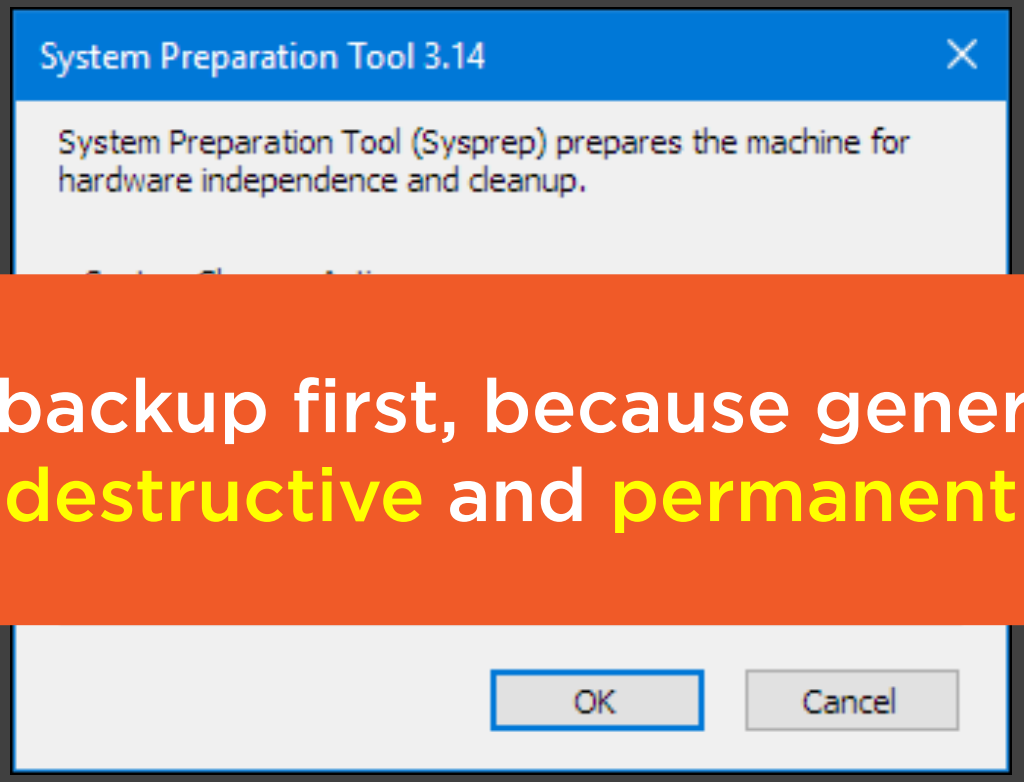
Generalize a VM in Azure

Purpose of Generalization

Resets server-specific data:

- Computer name
- Security identifiers (SIDs)
- Local Administrator/root identity
- Device driver cache
- Event logs

Generalize a Windows Server or Linux VM



Take a VM backup first, because generalization is destructive and permanent

```
sudo waagent -deprovision+user
```

Managed Disks

Disks

- No storage account (management) required
- Pay for pre-allocated storage (P10 = 128 GB SSD VHD)

Snapshots

- Read-only full copy of a managed disks

Images

- Generalized VM disk image
- Snapshots can be converted into images

Demo

1

Generalize a VM

- Manually
- PowerShell (Cloud Shell?)

Capture a VM Image in Azure

Demo

2

Capture a managed VM in the portal

Deploy a VM Based on an Image

Demo

3

Deploy a VM from an image

Deploy a VM from a snapshot

Summary

Please be sure to use managed disks for your VMs in Azure

- ConvertTo-AzureRmVMManagedDisk

You can use your custom images with Azure Resource Manager (ARM) templates

Next module: Configuring ARM Templates for Multi-VM Deployment