

Managed Disks



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Overview

Storage account pain points

Managed Disks value proposition

How managed disks work

Feature tour



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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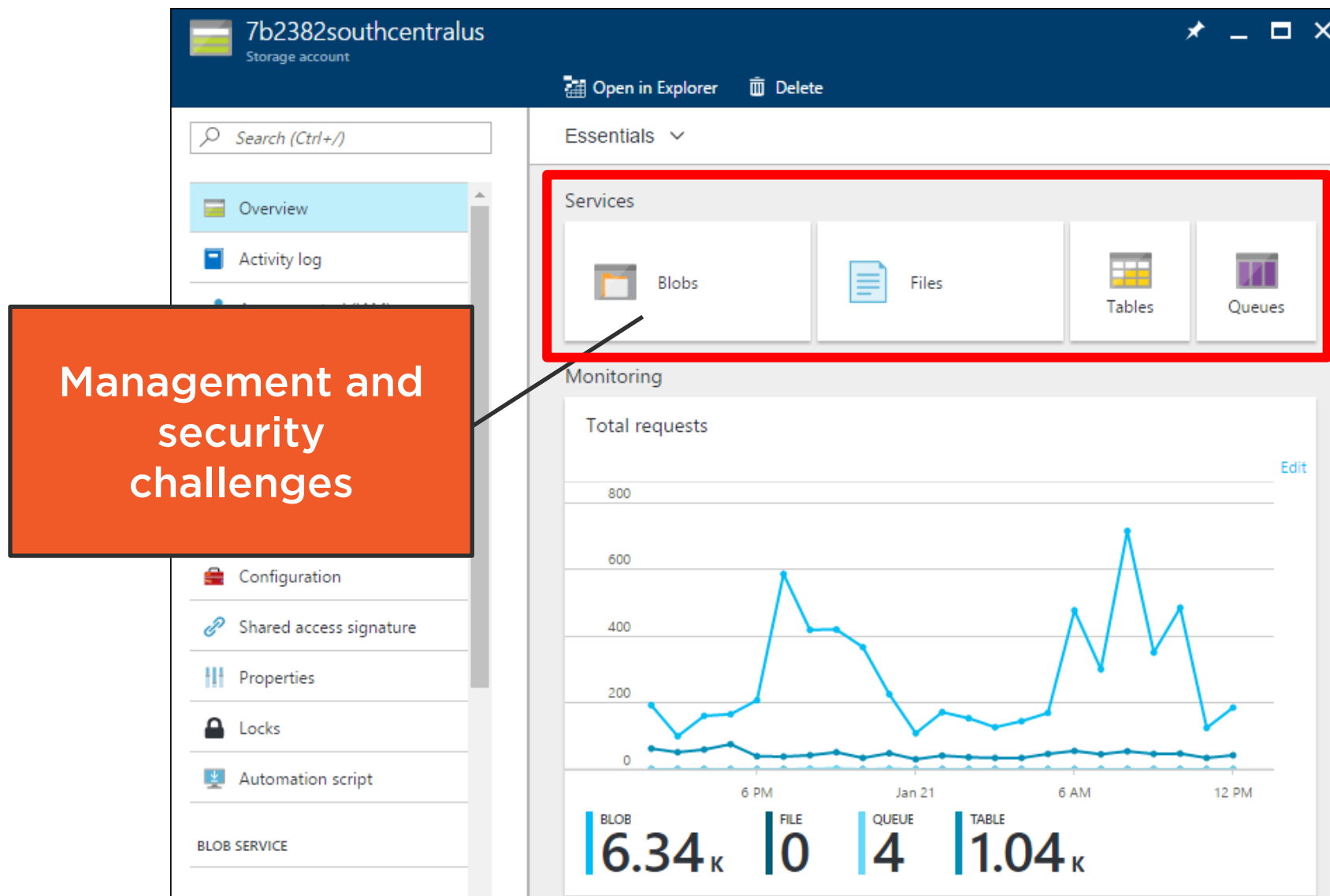
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Pain Points



The Storage Account Model



Storage Account Limits

Storage Service limits

Resource	Default Limit
Number of storage accounts per subscription	200 ¹
TB per storage account	500 TB

Virtual machine disks: per disk limits

Premium Storage Disk Type	P10	P20	P30
Disk size	128 GiB	512 GiB	1024 GiB (1 TB)
Max IOPS per disk	500	2300	5000
Max throughput per disk	100 MB per second	150 MB per second	200 MB per second
Max number of disks per storage account	280	70	35



Value Proposition



Managed Disks - Value Proposition



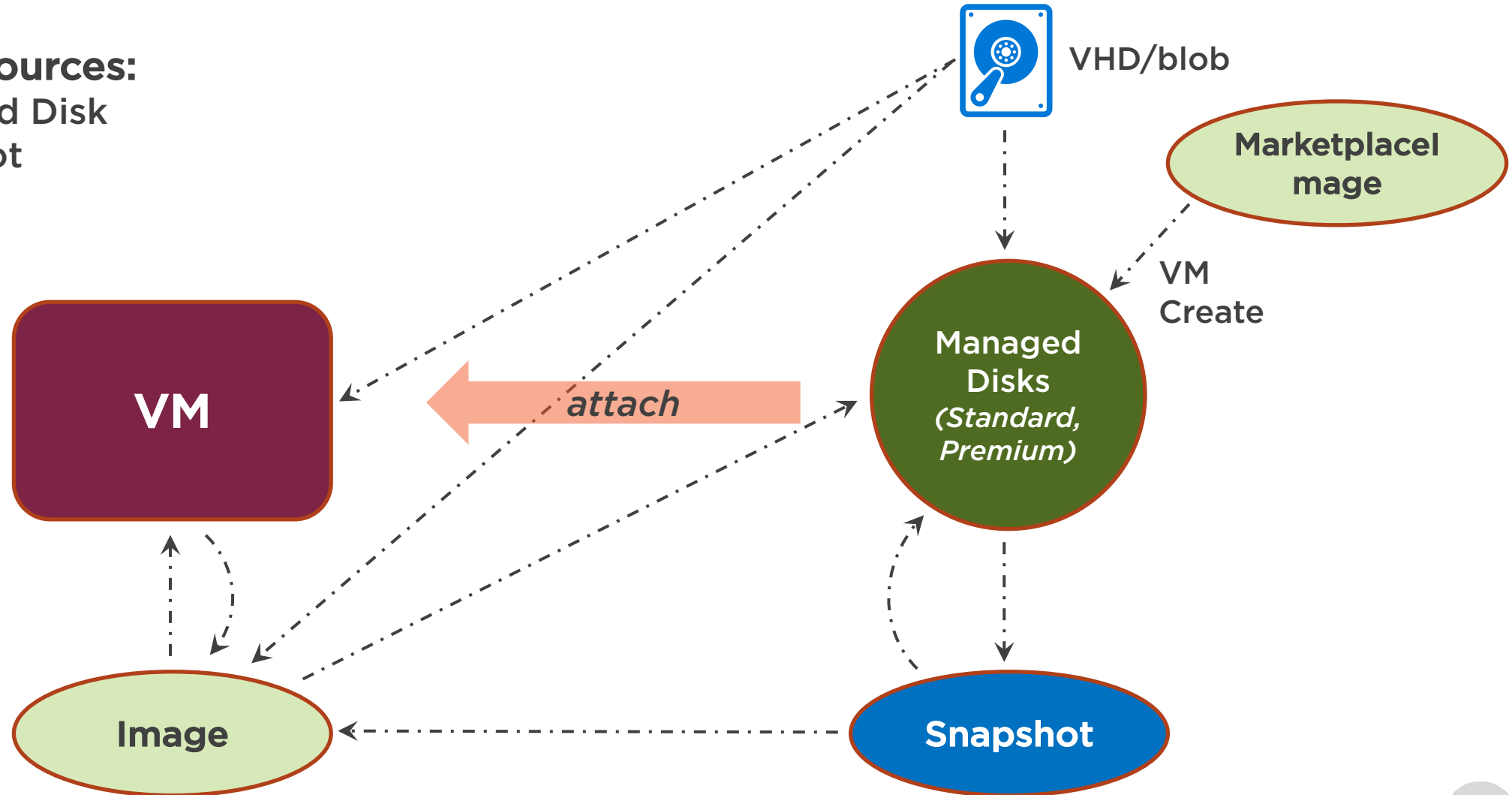
How Managed Disks Work



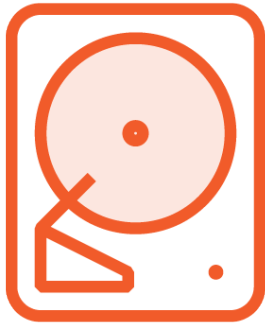
Managed Disks Architecture

Top-level resources:

- Managed Disk
- Snapshot
- Image



Managed Disks Facts



LRS only

Fixed sizes:

- Standard: 32 GB, 64 GB, 128 GB, 512 GB, 1 TB
- Premium: 128 GB, 512 GB, 1 TB

Can create empty managed disk

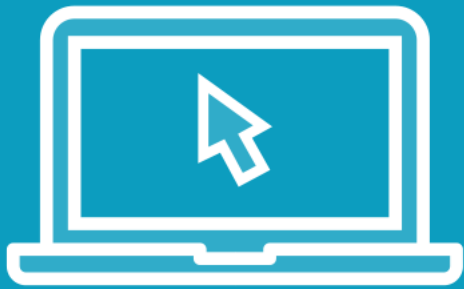
Can create managed disks from blob VHDs, snapshots, and images



Feature Tour



Demo



1



For Further Learning

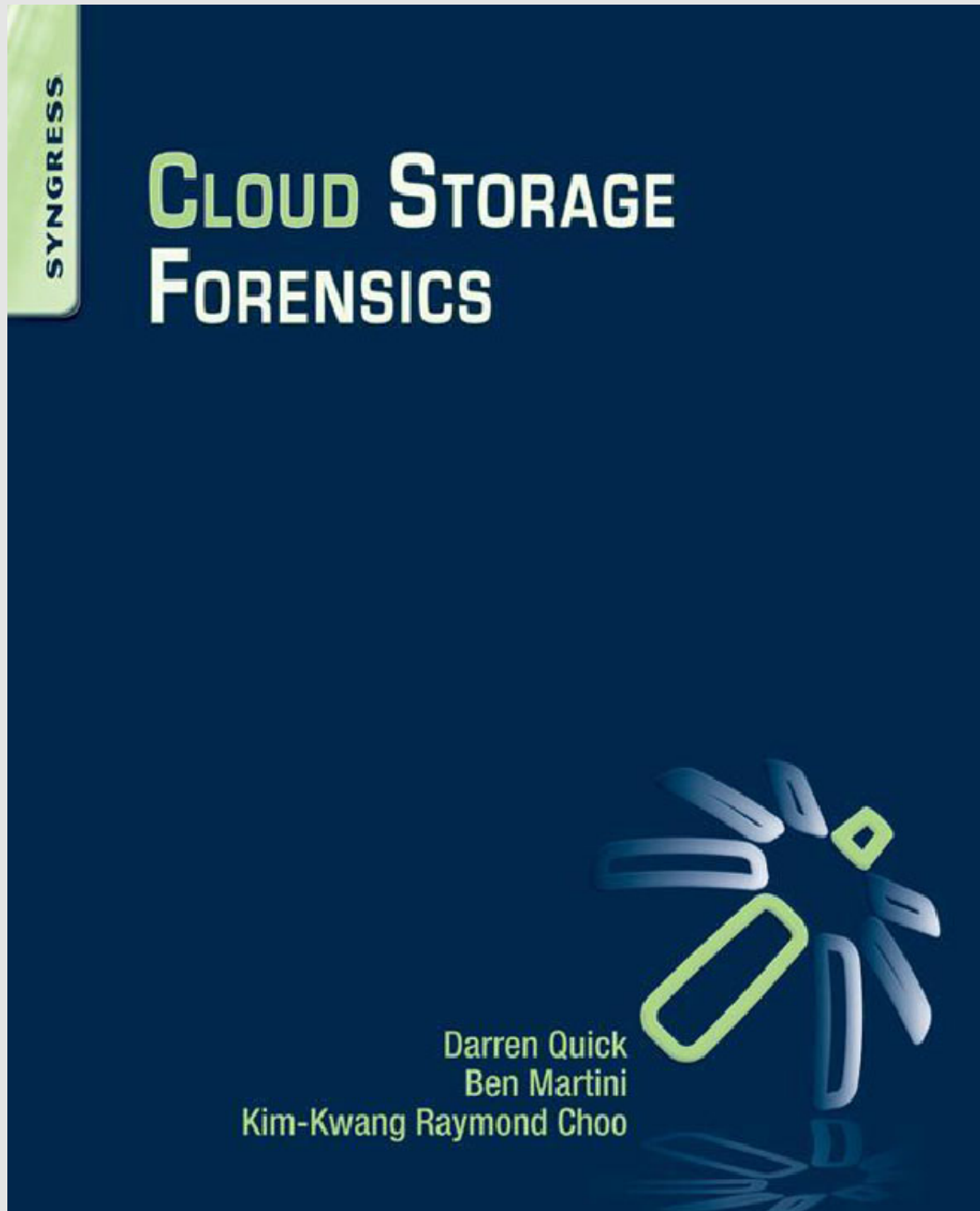
Understanding and Using Azure Storage (John Savill)

He covers the storage model approach thoroughly

Storage for CompTIA Server+ (Mike Pfeiffer)

Useful if your eyes cross at talk of IOPS, SSD, SCSI, etc.





Book Reference

Published December 2013

Don't get hung up on the product-specific details

See Chapter 3: "Microsoft SkyDrive Cloud Storage Forensic Analysis"



Summary



Managed Disks represent a much more streamlined workflow for VM administrators

Traditional storage accounts aren't going away

Thank you!

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