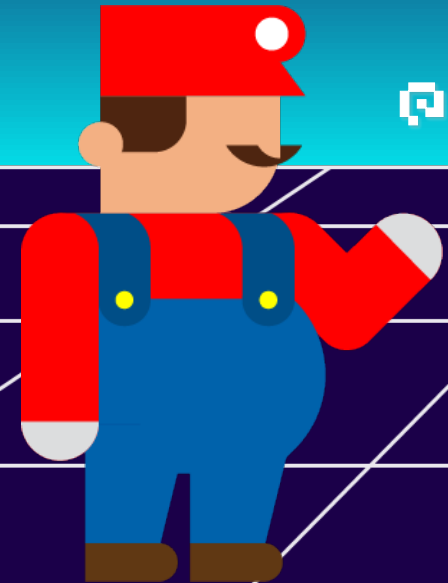


THE CLOUD DOESN'T GO DOWN. RIGHT?

MATT GORDON
(HE/HIM)
@SQLATSPEED

ANTHONY E. NOCENTINO
(HE/HIM)
@NOCENTINO

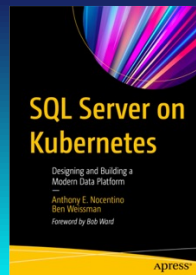
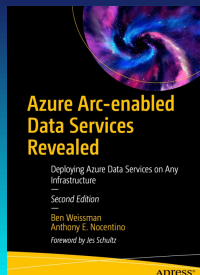


sqlbits



ANTHONY E. NOCENTINO

- PRINCIPAL FIELD SOLUTION ARCHITECT @ PURE STORAGE
 - SPECIALIZE IN SYSTEM ARCHITECTURE AND PERFORMANCE
 - MASTERS COMPUTER SCIENCE
- EMAIL: ANOCENTINO@PURESTORAGE.COM
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- BLOG: WWW.NOCENTINO.COM
- PLURALSIGHT AUTHOR: WWW.PLURALSIGHT.COM



PLURALSIGHT

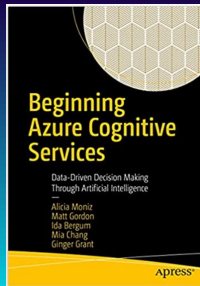


EIGHTKB



MATT GORDON

- DIRECTOR OF DATA & INFRASTRUCTURE @ REV.IO
- CONSULTING VETERAN OF MANY CLOUD MIGRATIONS
- PLAY WITH AZURE AI BITS AND CO-WROTE A BOOK IN 2021
- EMAIL: MATT@SQLATSPEED.COM
- TWITTER: @SQLATSPEED
- BLOG: [HTTP://WWW.SQLATSPEED.COM/](http://www.sqlatspeed.com/)



AGENDA

- HADR CONSIDERATIONS IN THE CLOUD
- UNDERSTANDING YOUR CLOUD INFRASTRUCTURE
- STORY TIME

MANAGEMENT SAYS MIGRATE TO THE CLOUD



HADR CONSIDERATIONS IN THE CLOUD



BACKUPS – AUTOMATION, REPLICATION AND RETENTION



UNDERSTAND THE SLA FOR SERVICES
GENERAL PURPOSE AND BUSINESS CRITICAL
WHAT ABOUT PREVIEW STUFF?



DO YOU *REALLY* NEED ZERO DOWNTIME?
CAN YOU ACTUALLY GET ZERO DOWNTIME?

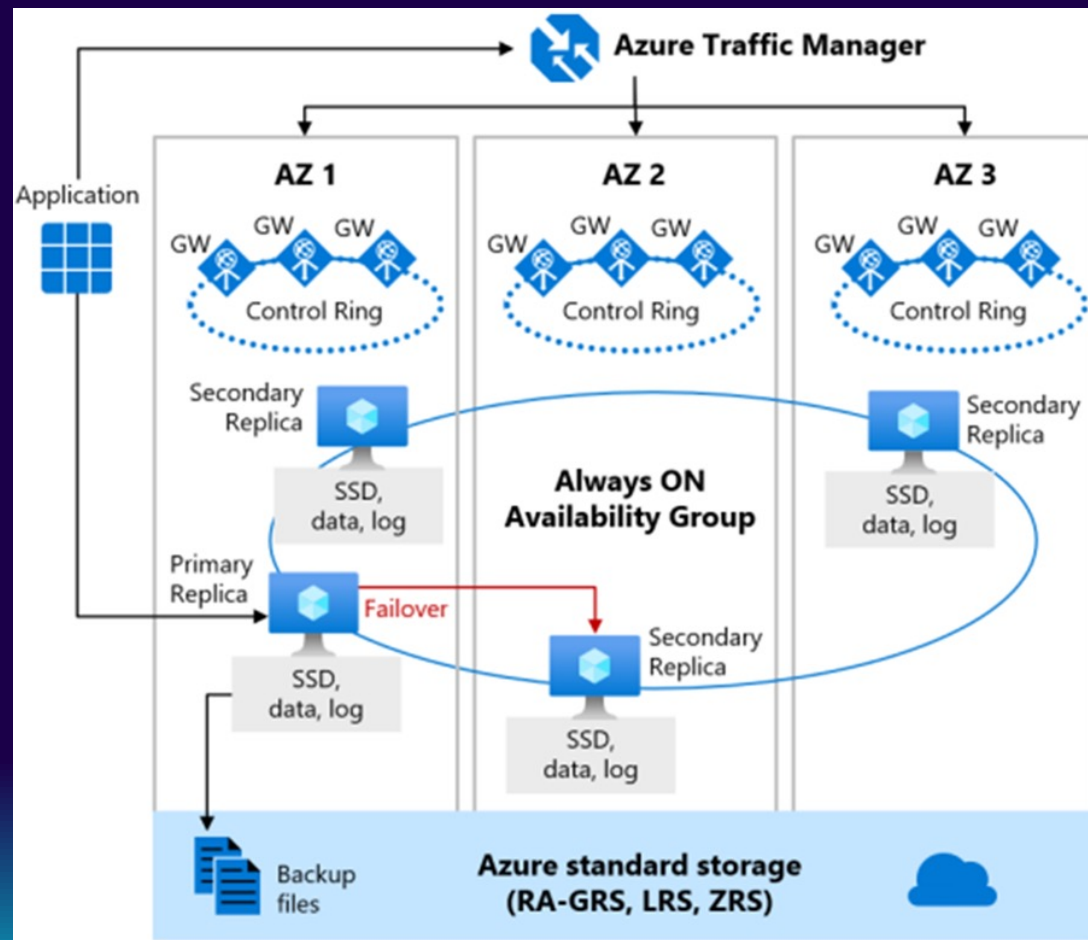


BUILD A SUPPORTABLE SOLUTION
AZURE ALWAYSON PROJECT – [HTTPS://BIT.LY/3LZ6U3D](https://bit.ly/3LZ6U3D)

UNDERSTANDING YOUR CLOUD'S INFRASTRUCTURE

- REGIONS – DEFINES A DISASTER RECOVERY BOUNDARY
 - PAIRED REGIONS – PHYSICALLY ADJACENT REGIONS WITH SERIALIZED MAINTENANCE
 - AVAILABILITY ZONE – DEFINES AN AVAILABILITY/FAULT DOMAIN BOUNDARY
 - ZONE REDUNDANT – A SERVICE THAT SUPPORTS AVAILABILITY ZONES
-
- THESE DEFINE THE FAULT DOMAINS IN YOUR CLOUD
 - THE SERVICES YOU USE WILL LIKELY HAVE PROTECTIONS FOR FAILURES AROUND THESE
 - LET'S CHECK OUT AN EXAMPLE...WITH AZURE SQL DB

AZURE SQLDB - BUSINESS CRITICAL ZONE REDUNDANT



- PROVIDES AZ LEVEL REDUNDANCY
- AVAILABILITY GROUPS TO REPLICATE
- AZURE TRAFFIC MANAGER SENDS TRAFFIC TO THE CONTROL RING AND CONNECTION GATEWAYS
- BUT... HOW DO WE GET ZONE REDUNDANT SQLDB?
- AZURE SQLDB FAILOVER GROUPS
- IS THIS THE RIGHT SOLUTION?

IMAGE FROM: [HTTPS://DOCS.MICROSOFT.COM/EN-US/AZURE/AZURE-SQL/DATABASE/HIGH-AVAILABILITY-SLA](https://docs.microsoft.com/en-us/azure/azure-sql/database/high-availability-sla)

"NO ONE CARES ABOUT SQL SERVER BEING ONLINE...

WHAT THEY CARE ABOUT IS GETTING ACCESS
TO THE DATA"

ANTHONY AND MATT SQLBITS 2022

[HTTPS://DOCS.MICROSOFT.COM/EN-US/AZURE/AZURE-
SQL/DATABASE/TROUBLESHOOT-COMMON-ERRORS-ISSUES](https://docs.microsoft.com/en-us/azure/azure-sql/database/troubleshoot-common-errors-issues)

[HTTPS://DOCS.MICROSOFT.COM/EN-US/AZURE/AZURE-
SQL/DATABASE/TROUBLESHOOT-COMMON-CONNECTIVITY-ISSUES](https://docs.microsoft.com/en-us/azure/azure-sql/database/troubleshoot-common-connectivity-issues)

STORY TIME



APPGW



AZURE AD

REVIEW

- HADR CONSIDERATIONS IN THE CLOUD
- UNDERSTANDING YOUR CLOUD INFRASTRUCTURE
- STORY TIME



[HTTPS://SQLB.IT/?7052](https://sqlb.it/?7052)

NEED MORE DATA-ANTHONY?

EMAIL: ANOCENTINO@PURESTORAGE.COM

TWITTER: @NOCENTINO

GITHUB:

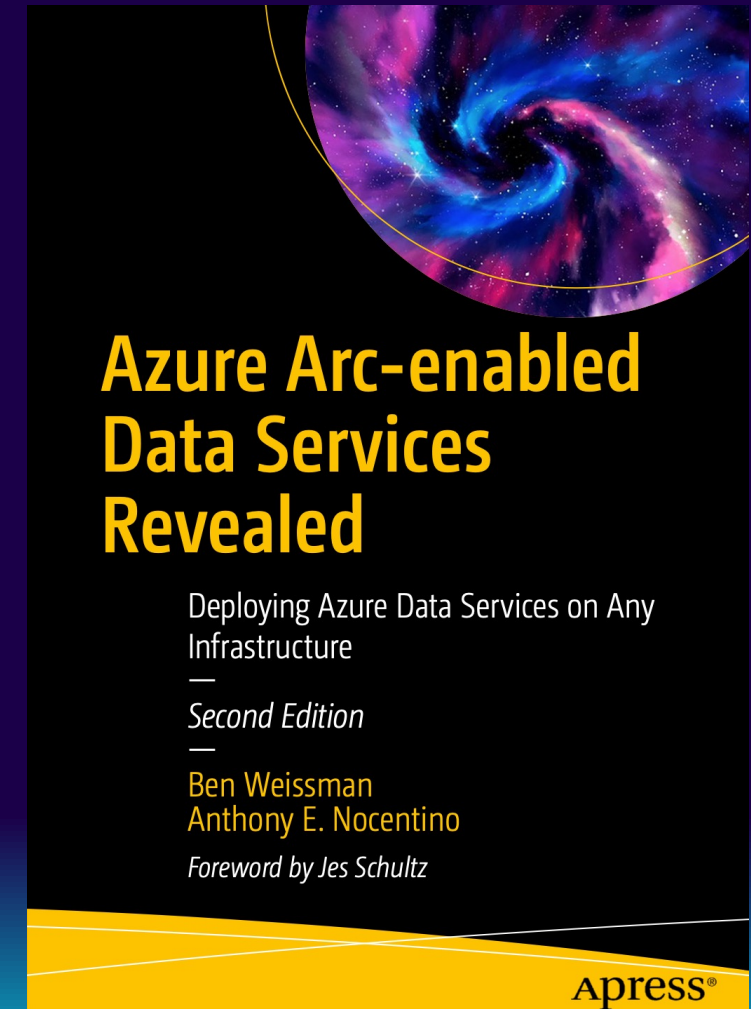
[HTTPS://GITHUB.COM/NOCENTINO/PRESENTATIONS](https://github.com/nocentino/presentations)

BLOG: WWW.NOCENTINO.COM

BOOK: SQL SERVER ON KUBERNETES

PLURALSIGHT: HIT ME UP TO GET FREE ACCESS

AZURE/LINUX/POWERSHELL/KUBERNETES



NEED MORE DATA-MATT?

EMAIL: MATT@SQLATSPEED.COM

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BLOG: [HTTP://WWW.SQLATSPEED.COM/](http://WWW.SQLATSPEED.COM/)

BOOK: BEGINNING AZURE COGNITIVE SERVICES

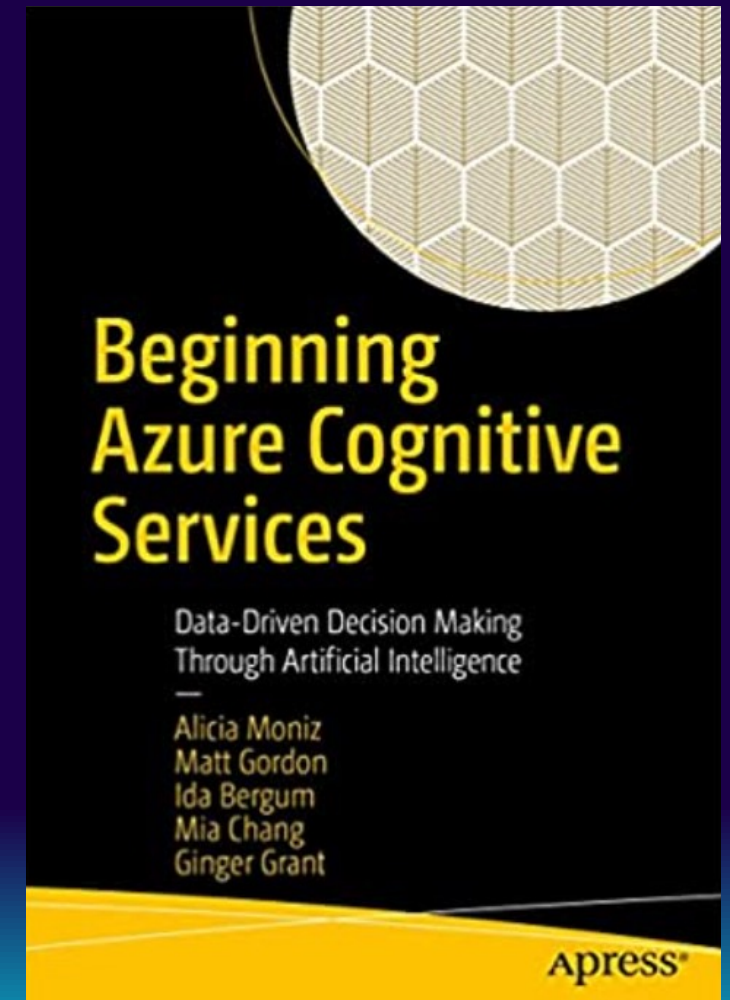
WANT TO CHAT?

CLOUD MIGRATIONS

AZURE AI

HADR ON-PREMISES AND IN THE CLOUD

MOTOR RACING AND/OR FOOTBALL (BOTH KINDS!)



Feedback Please!

