

Microsoft Build 2022 Recap



08.06.2022



Photos

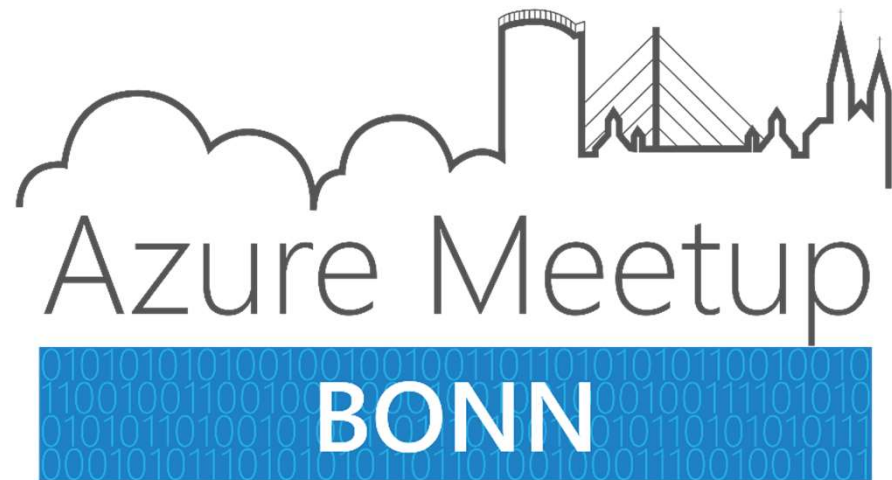
Please note, we
take pictures of the
event.



#AzureBonn - Sponsoren



Vielen Dank!



Agenda

19:00 Uhr – **Begrüßung**

19:15 – MS Build Recap

19:45 – Azure BCDR

20:15 – **Q&A**

20:30 – Ende

A large, abstract blue ink splash graphic on the left side of the slide, with various shades of blue and white, creating a textured, artistic background.

#Azure Bonn – Event Tipps

- 20-23.06.22 PowerShell Conference Europe
 - <https://psconf.eu/>
- 24.06.22 Azure Day Rome
 - <https://www.azureday.it/>
- 29.-02.07.22 Cloud Land Phantasialand
 - <https://www.cloudland.org/de/home/>
- 29.06.22 Experts Live Austria
 - <https://www.expertslive.at/>
- 30.06.22 Azure Low Lands
 - <https://www.azurelowlands.nl/>

Mehr unter: <https://www.reimling.eu/events/>



Cloud Inspires

Geek Inspires - MS Build Recap 2022

Episode #10

Guest: Eric Berg & Marcel Meurer



www.cloudinspires.me



CLOUD IDENTITY SUMMIT '22

Thu, September 22th, 2022

Call for papers starts on Monday!
Hybrid Event in Bonn, Germany
www.identity-summit.cloud


Community Event by



Follow us on Twitter:
[@identitysummit](https://twitter.com/identitysummit)

Supported by



A large orange shape on the left side of the slide, consisting of a rectangle on the left and a quarter-circle on the right.

Meta wählt Azure als strategischen Partner

- Meta nutzt dedizierten Azure Supercluster mit 5.400GPUs auf Basis der neuesten Azure VM-Serie
- NDm A100 v4-Serie mit NVIDIA A100 Tensor Core-GPUs mit 80 GB



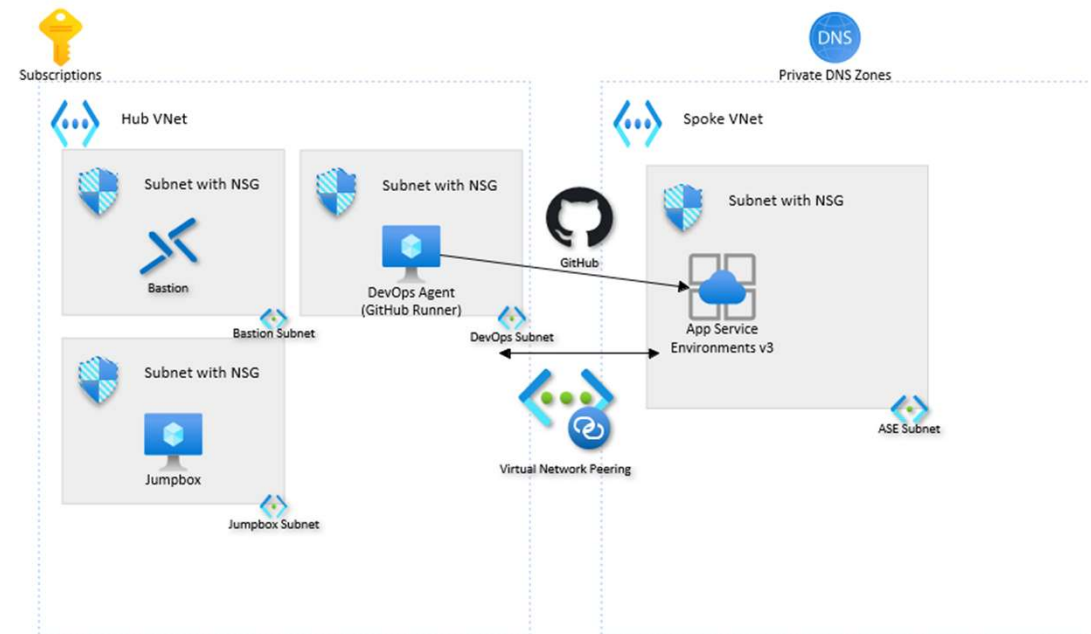
Azure Container Apps - GA

- Serverless container for microservices
- Build modern apps on open source



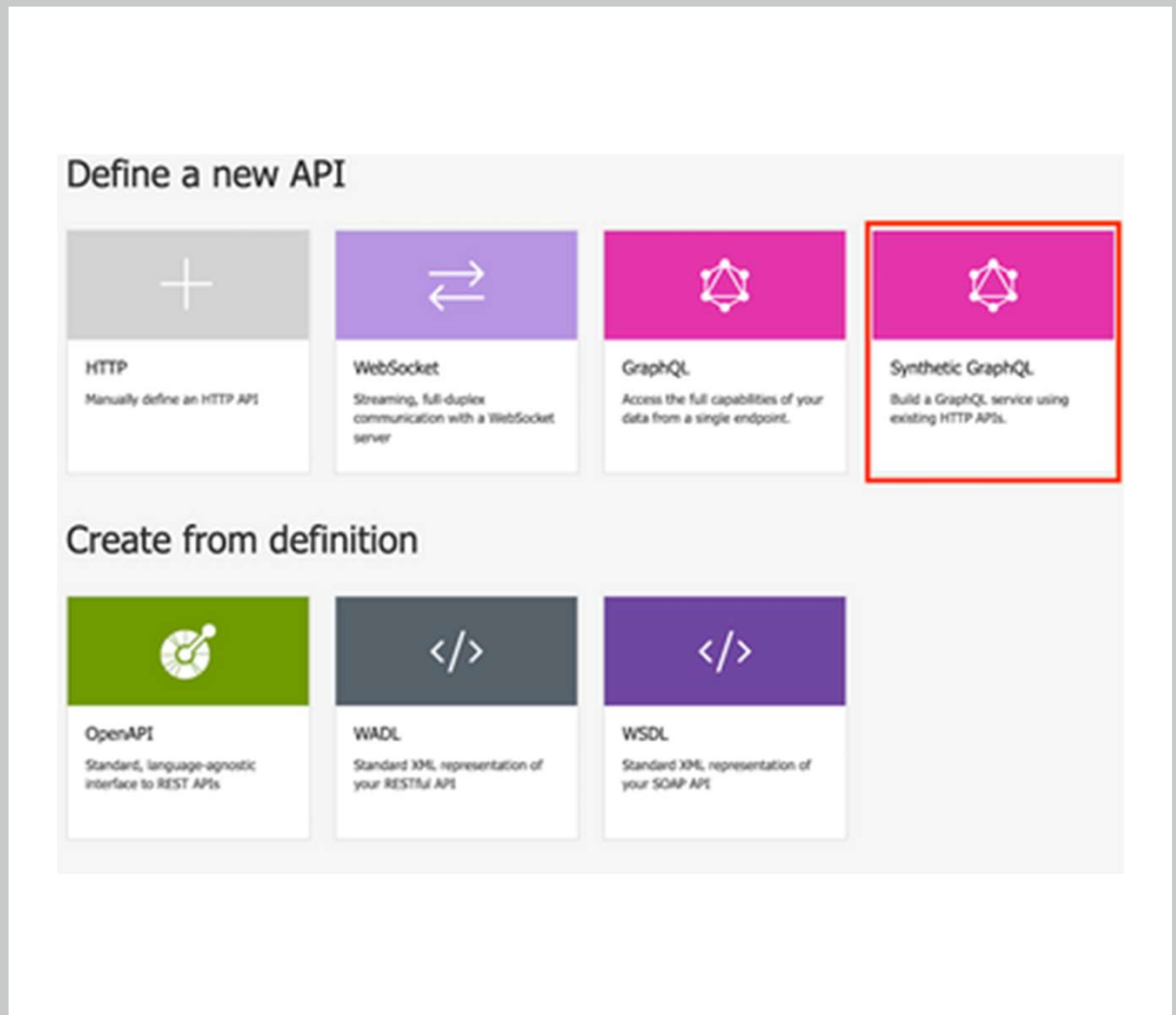
Azure App Service

- Google Remote Procedure Call in Preview
- App Service Landing Zone Accelerator
- Azure App Service bulk migration capabilities -> easier migration of APS-NET web apps



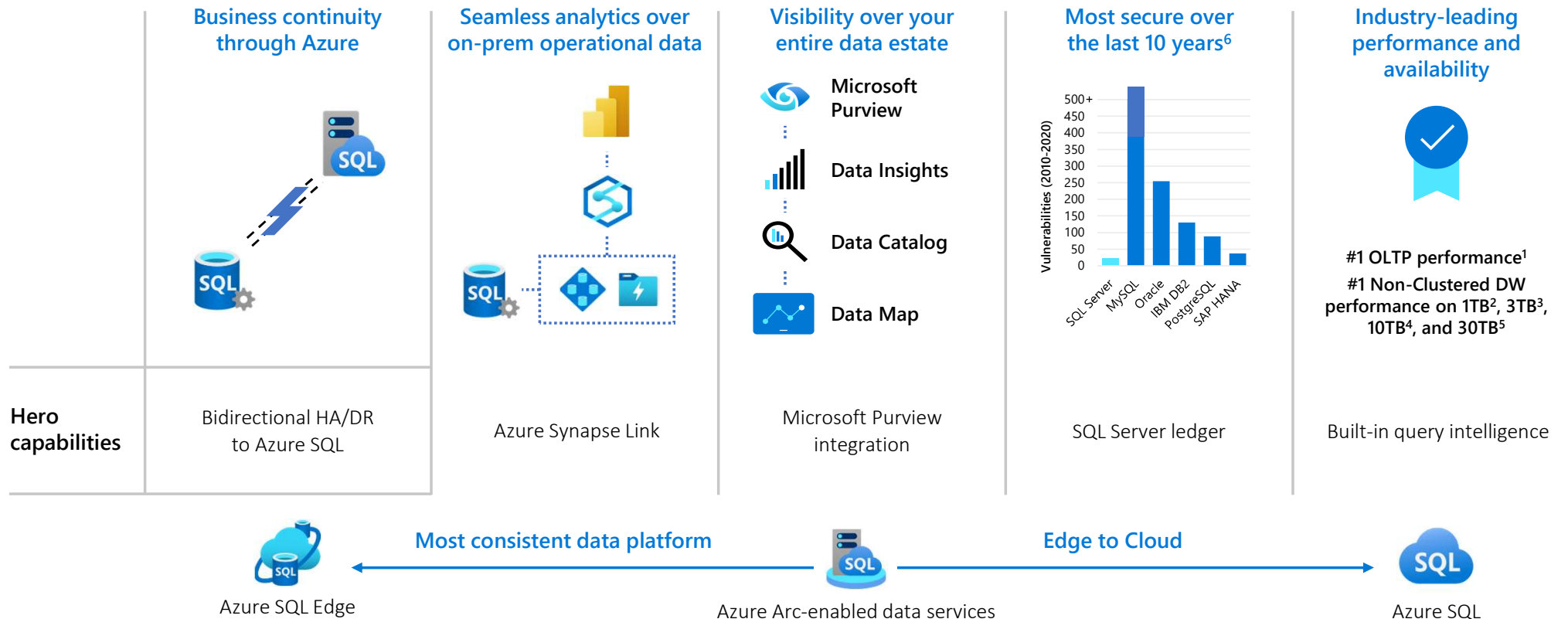
Azure Api Management

- Private Link support GA
- Managed Certificate GA
- GraphQL passthrough support GA



SQL Server 2022

Azure-enabled with continued performance and security innovation



All TPC Claims as of 10/06/2021.

¹ <http://www.tpc.org/4087>

² <http://www.tpc.org/3374>

³ <http://www.tpc.org/3380>

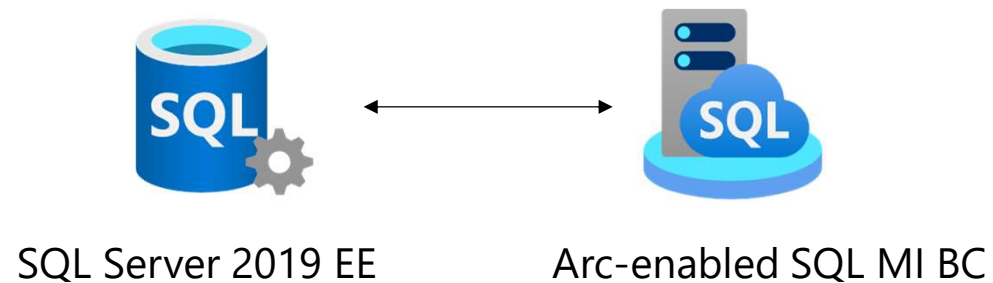
⁴ <http://www.tpc.org/3362>

⁵ <http://www.tpc.org/3364>

⁶ National Institute of Standards and Technology Comprehensive Vulnerability Database

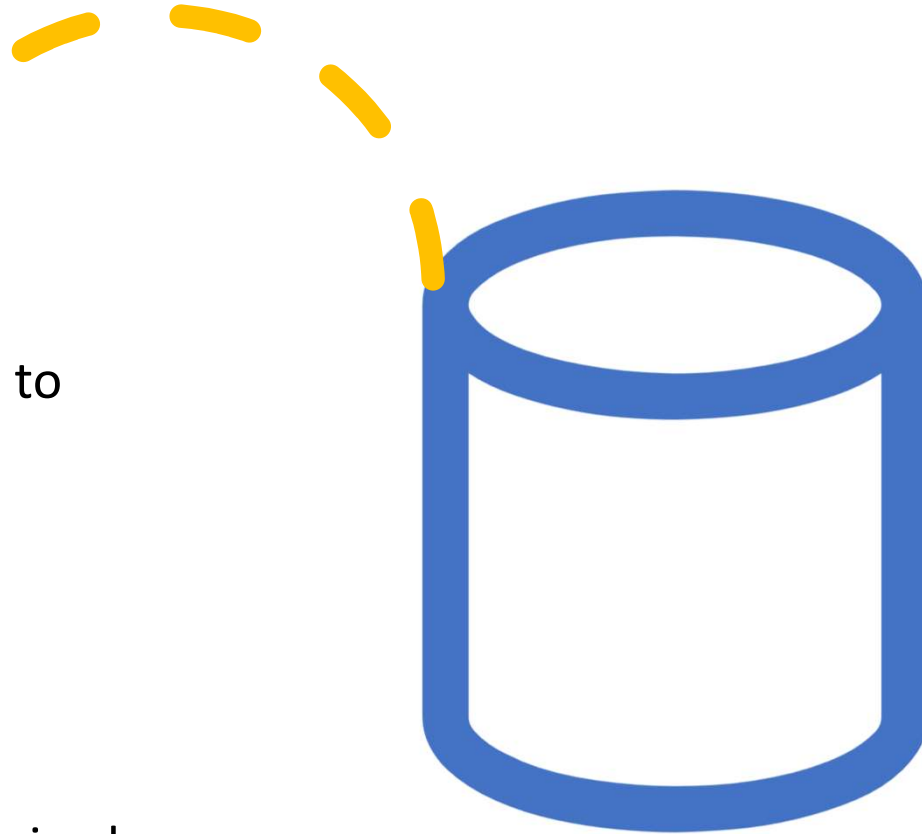
Azure Arc-enabled SQL Managed Instance GA

- Feature parity with SQL Server Enterprise Edition
- Always On Availability Group for HA
- Unlimited and flexible CPU and Memory
- 1 passive replica for DR – free
- 1st active replica for read scale-out – free
- Developer edition for all dev/tests - free



Build DB Announcements

- Azure Cosmos DB
 - Extend serverless capacity up to 1TB
 - Support for hierarchical keys
- Azure SQL Database
 - New Features
- Azure MySQL Database
 - Flexible Server Memory Optimized service tier now Business critical tier



Microsoft Pureview

Data Policy for SQL DevOps roles are now in preview

Azure Purview | Contoso

Search catalog

>> Data catalog > Search results "inventory" >

Inventory
Azure Data Lake Storage Gen2 | Folder

Edit + Select for bulk edit Request access Refresh Delete

Overview Properties Lineage Contacts Related

Asset description
No description for this asset.

Classifications ⓘ
No classifications for this asset.

Fully qualified name ⓘ
<https://findatalake.dfs.core.windows.net/finance/Data/Inventory/>

Name *
Finance-devops

Description *
Finance SQL devop policy

Policy statements ⓘ
Create up to 5 policy statements for your policy.

Example policy statement:
Allow Read on data asset finance to group non-FTEs.

+ New policy statement

Allow SQL Performance Monitoring on data contained in jimgray to group "GSL"

Renamed Services



Azure Spring Cloud -> Azure
Spring Apps



Azure Database for MySQL
Flexible Server Memory
Optimized service tier -> Business
Critical service tier

Azure Arc

- Arc-enabled PostgreSQL GA
- Arc-enabled Machine Learning GA
- Kubernetes lifecycle management for AKS-HCI and Windows Server
- Azure Policy and MS Defender for Arc-enabled Kubernetes GA



Azure Stack HCI

- single node Azure Stack HCI are GA
- For small physical constraints
- Scalable – up to 16 Nodes
- Native Azure Arc Integration

The screenshot displays the Microsoft Azure Stack HCI Solutions Catalog. The top navigation bar includes the Microsoft logo, 'Azure Stack HCI Solutions', and tabs for 'Catalog', 'Sizer (preview)', and 'Network Requirements'. A user profile for 'Kerim Hanif' is visible in the top right.

On the left, a 'Refine results' sidebar allows filtering by 'System configuration', 'Solution builder', 'Nodes per cluster' (with radio buttons for 'All solutions', '1-4', '4-8', '8-16', and a '1 to 4' range selector), 'Purchase as a Service', 'Optimized for', 'CPU', 'GPU support', 'Storage', 'Feature support', and 'Regional availability'.

The main content area features a banner stating: 'Microsoft strongly recommends choosing Integrated Systems. Integrated Systems provide the best customer experience for Azure Stack HCI. They come with the operating system pre-installed on high quality, integrated hardware that is optimally configured for Azure Stack HCI and has completed Microsoft's clustered solution validation testing.' Below this are buttons for 'Help me choose', 'Compare solutions', and 'Clear All', along with a search bar and a 'Manufacturer...' dropdown.

Below the filters, a list of solutions is shown, including:

- Acutech**: 1 to 16 nodes, Intel® 3rd Gen Xeon® Scalable Processor. 6 solutions.
- DataON AZS-6112**: Integrated System. 1 to 16 nodes, Intel® 3rd Gen Xeon® Scalable Processor. 4 solutions.
- AX-640**: Integrated System. 1 to 16 nodes, Intel® 3rd Gen Xeon® Scalable Processor. 5 solutions.
- ThinkAgile MX1021 Validated Node**: 1 to 4 nodes, Intel® Xeon® D 21xx. 4 solutions.
- Express5800/R120h-1M**: 1 to 16 nodes, Intel® 3rd Gen Xeon® Scalable Processor. 3 solutions.
- AzSHCI Micro-Cluster TI (v2)**: 1 to 16 nodes, Intel® Xeon® D 21xx. 5 solutions.
- AzSHCI Micro-Cluster TA (v2)**: 1 to 16 nodes, AMD 3rd Gen EPYC™ Embedded. 1 solution.
- DataON Kepler-47**: 1 to 4 nodes, Intel® Xeon® D 21xx. 1 solution.
- AX-6515**: Integrated System. 1 to 16 nodes, AMD 3rd Gen EPYC™. 1 solution.
- ThinkEdge SE450**: 1 to 4 nodes, Intel® 3rd Gen Xeon® Scalable Processor. 1 solution.

NGINX for Azure (SaaS preview)

Create NGINX Deployment - Microsoft Azure

portal.azure.com/

Microsoft Azure Search resources, services, and docs (0+)

Home > Marketplace > NGINX for Azure (preview) >

Create NGINX Deployment

Basics Networking Tags Review + create

NGINX for Azure is a SaaS offering that aims to provide a tightly integrated experience into Microsoft Azure making application fast, efficient and reliable with full lifecycle management of advanced NGINX traffic services. [Learn more](#)

Project details

Select the subscription to manage deployed resources and costs. Use resource groups like folders to organize and manage all your resources.

Subscription *

Resource group * [Create new](#)

Instance details

Name *

Region *

Billing Details

Pricing Plan *

Billing Term * ☒ Monthly

[Review + create](#) < Previous Next : Networking >

Developer and DevOps

- Microsoft Dev Box
 - give developers self-service access to high performance, cloud-based workstations
 - Based on Windows 365
 - In private Preview - <http://aka.ms/devbox-signup>
- Project MAUI (.NET Multi-plattform App UI) is GA

Microsoft Learn

- Microsoft Learn Cloud Games
- Exam Readiness Zone
- Certification Renewal

 **Microsoft** | **Learning** Training ▾ Certifications & exams ▾ Special offers Your dashboard Community ▾ Microsoft Learn More ▾

NOTICE: In June 2022, this Certification Dashboard will merge into the [Microsoft Learn Profile](#). Your account information, history, and other records will be available on Microsoft Learn. Refer to the [Learning to Learn FAQ](#) for additional information.

Your dashboard

This is your Microsoft Certification dashboard. Here you will find everything related to your active and past certifications and certification exams. You will also find links to help you register for exams as well as view or download badges, certificates and transcripts of your certification accomplishments.



Azure Migration



Agentless discovery and grouping of
Hyper-V VMs and physical servers GA



SQL assessment
improvements

Now include
recommendations for SQL on
Azure VM – preview



Pause and resume of migration –
preview



Discovery, assessment and
modernization of ASP.NET web apps

Links

- [Microsoft Build 2022 Book of News](#)
- [Meta wählt Azure als strategischen Cloudanbieter](#)
- [ACA now GA](#)
- [Azure App Service landing zone accelerator](#)
- [SQL Server 2022 Preview](#)
- [SQL Server 2022 – YouTube](#)
- [Overview | Azure Arc Jumpstart](#)
- [NGINX in preview](#)
- [Microsoft Dev Box](#)
- [Microsoft Learn Updates](#)

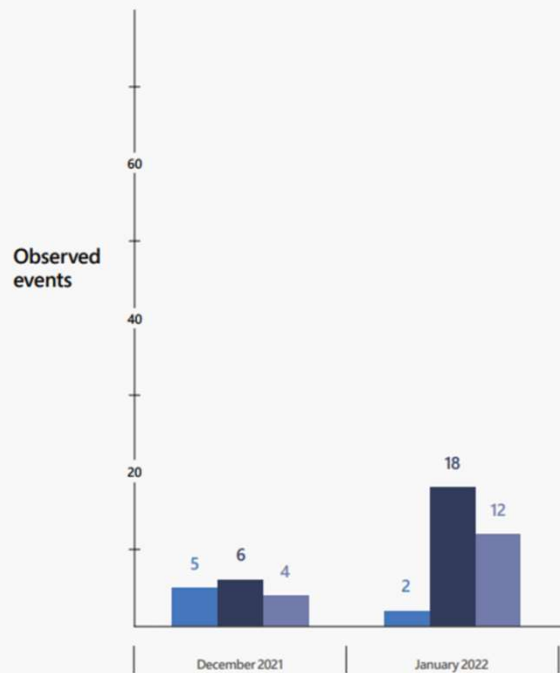


Backup and disaster recovery for your data and applications in Azure



Why?

Stages of Russian cyber operations in Ukraine since December



Legend:



Military strikes



February 24
Russian tanks
enter Ukraine



March 1
Military strikes
in Ukraine



March 3
Widespread
electricity outages
in Ukraine



March 3
Russia's military
occupies
Zaporizhzhia



March 6
Russian forces
launch eight
missiles in Ukraine



March 11
First Russian
strikes in
Lviv

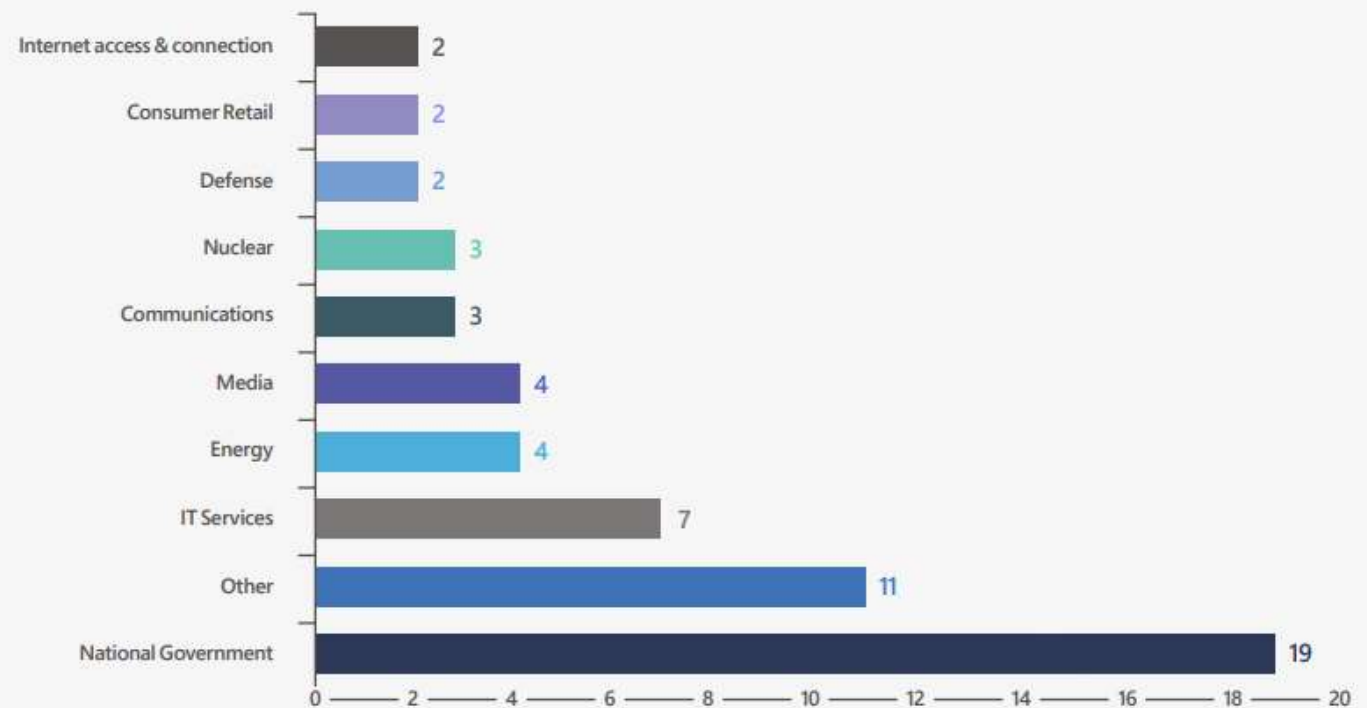


March 16
Russian
rockets
hit Kyiv



April 3
Russian airstrikes
hit fuel depots
in Ukraine

Sample set of targets by industry



Why do you need a BCDR strategy?



Ransomware



Data corruption
and deletion



Outages and
natural disasters



Compliance

How to start?



How do you protect yourself against a possible ransomware attack?



Have you already defined a BC / DR strategy?

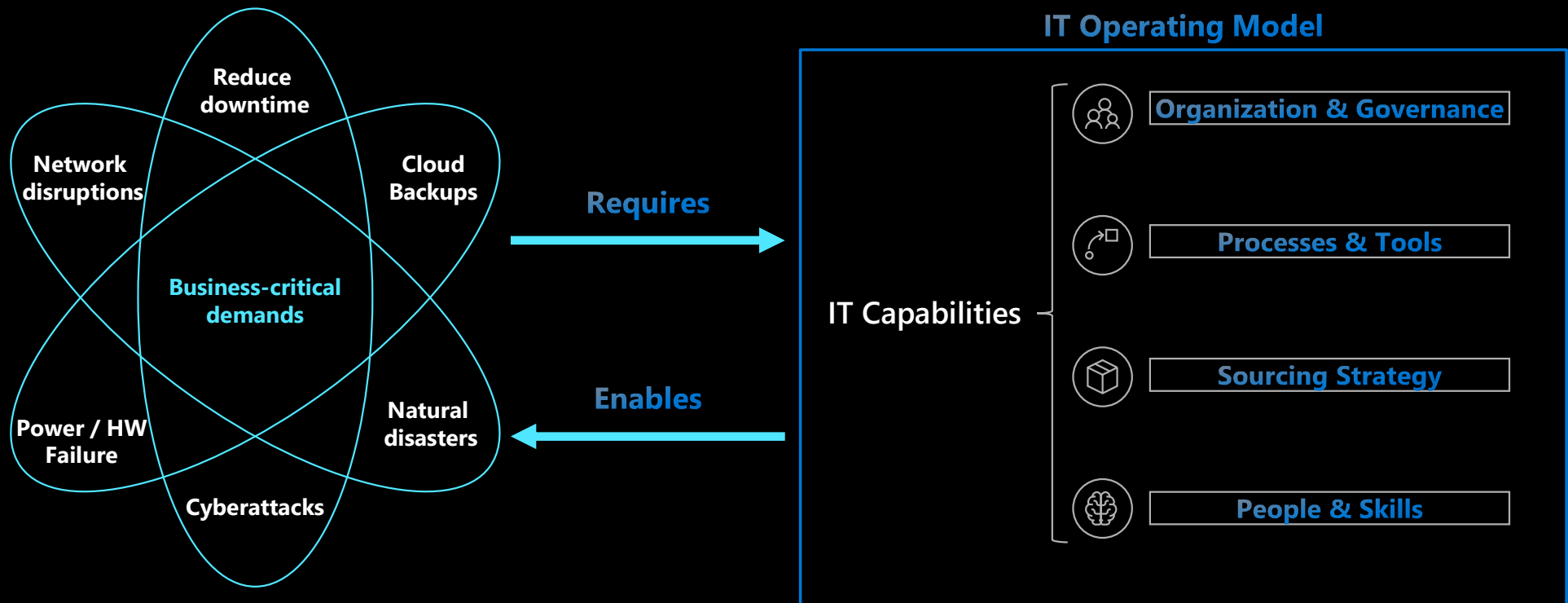


When was the emergency plan tested and is the emergency simulated on a regular basis?



Business continuity without a second data center, how?

Business critical demands



Organizations with an inadequate BCDR strategy are accepting a large element of risk

+ 93% +

of organizations have been attacked by malware/ransomware in the past 24 months making attacks a virtual certainty for every organization¹

+ 83% +

of organizations can expect a successful malware/ransomware intrusion making response recovery preparedness an imperative¹

+ <50% +

of applications are protected by a disaster recovery (DR) plan meaning many organizations are not prepared to respond to a large-scale recovery situation¹

+ 72% +

72% of companies have little or no business continuity strategy and many significantly overestimate their measures²

¹ DC Info Snapshot, sponsored by Microsoft, Business Continuity in the Cloud: Simple, Rapid and Cost-effective, October 2020.

² Gartner – Market Guide for Disaster Recovery as a Service, 2021, Ron Blair, Jeffrey Hewitt

The impact of an outage on your digital business

Business continuity and data protection are critical

Impact to
your business

Impact to
your brand

Impact to
your IT career

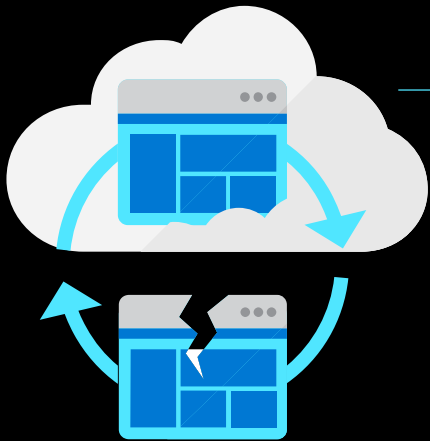
Average per mission-critical workload downtime cost ranges from **\$2,500** per hour for smaller organizations up to **\$50,000** per hour for large organizations¹

¹ IDC Info Snapshot, sponsored by Microsoft, Business Continuity in the Cloud: Simple, Rapid and Cost-effective, October 2020.

**What is the difference between
Disaster recovery & backup?**

Disaster recovery and backup

You need both



Disaster recovery

When your applications have a catastrophic failure, quickly recover and run them in Azure or a secondary datacenter

Backup

When your data is corrupted or lost, restore your data to the original location or a new location—you can retain backups for a long time



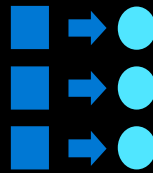
Disaster Recovery concepts



RPO

The Recovery Point Objective covers the maximum amount (in time) of data that can be lost in case of a disruption.

How much can i lose? → 5 Min, 1 Hour, 1 Day



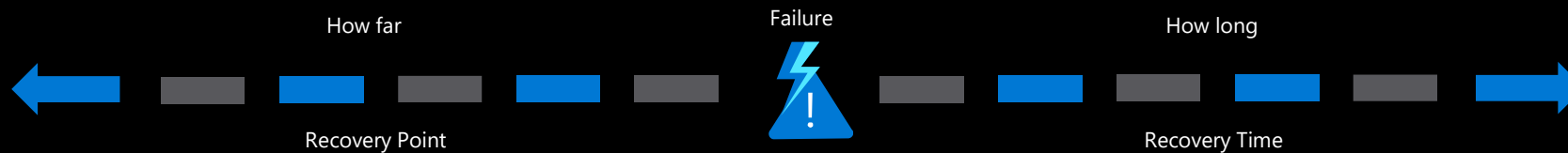
Replication



RTO

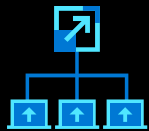
The Recovery Time Objective (RTO) covers the maximum amount it will take from the disruption to bring back the business functions including data.

How long to be operational? → 30 Min, 4 Hours, 3 Days



Simplify data protection with built-in backup

Azure Backup



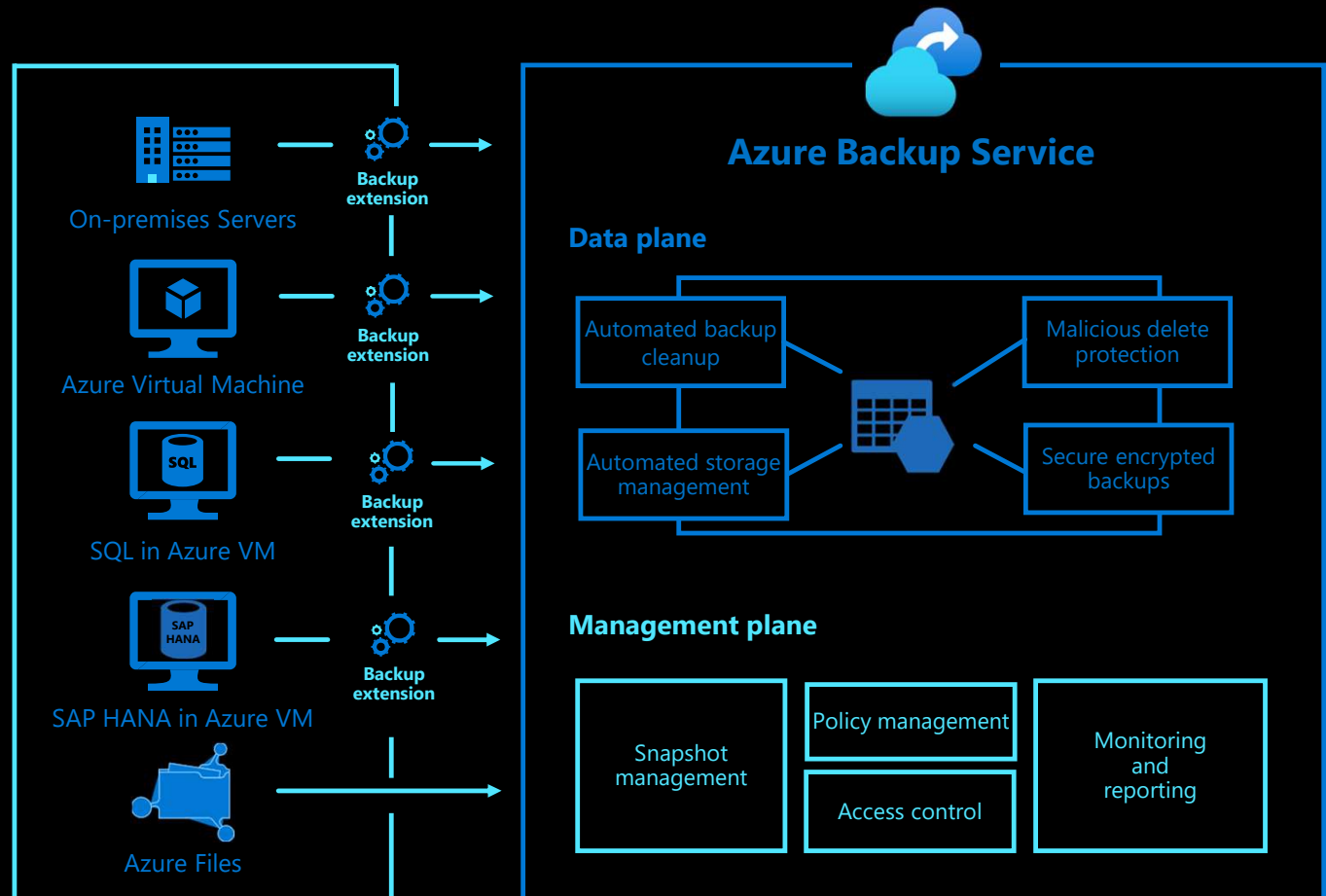
Built-in management
at scale



Scalable, durable
and secure storage



Native workload
integration



Minimize downtime with Azure Site Recovery



Easy to deploy and manage



Reduce infrastructure costs

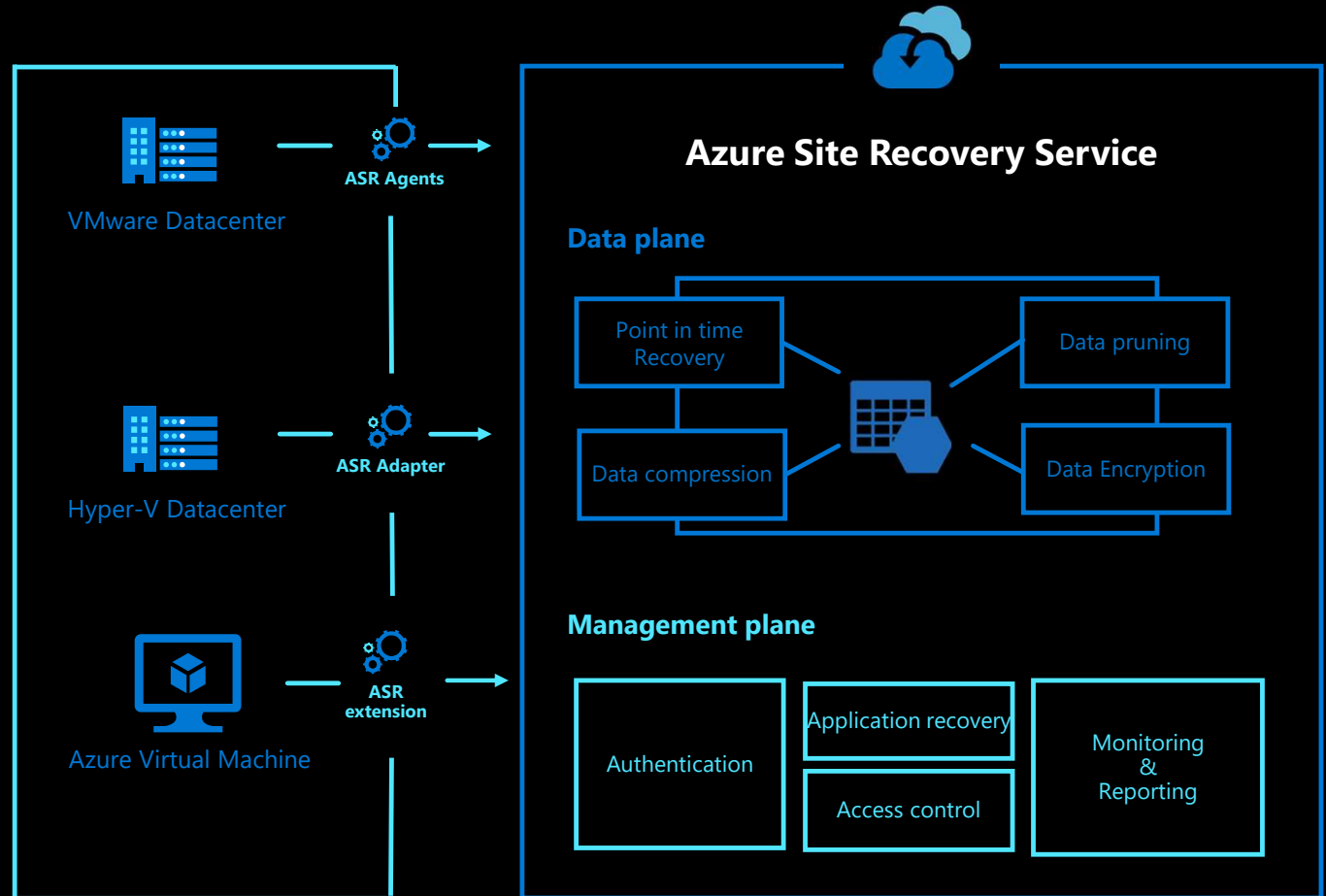


Minimize downtime with dependable recovery



Heterogeneous environment support

*Leader in [Gartner DRaaS MQ](#)



Azure is here to meet your business continuity needs

Azure backup + Azure site recovery + partner solutions

51%¹

improvement in the
efficiency of IT Teams

76%¹

faster backups

66%¹

reduction in average
data recovery time

337%¹

5-year return on
investment

HIGH AVAILABILITY

SLA 99.9%

Isolated VM failure

SLA 99.95%

Hardware failure

SLA 99.9%

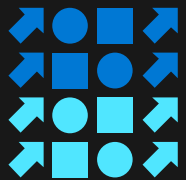
Entire datacenter failure

RTO 30 minutes

Entire region failure

1. IDC White Paper, sponsored by Microsoft, Azure Site Recovery and Azure Backup Are Helping Improve Business Operations, June 2019. The study compares Azure Site Recovery and Azure Backup with an on-premises backup and disaster recovery solution.

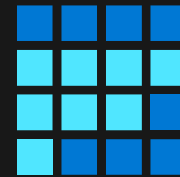
Key takeaways



1. Differentiated Azure approach for business continuity



2. Meet your BCDR compliance needs in Azure



3. Simple configuration of backup and disaster recovery



4. Reduce cost by leveraging backup and site recovery

Resources



Business Continuity Blog

<https://azure.microsoft.com/en-us/blog/minimize-disruption-with-costeffective-backup-and-disaster-recovery-solutions-on-azure/>



Resilience in Azure Whitepaper

<https://azure.microsoft.com/en-us/resources/resilience-in-azure-whitepaper/>



What does Azure site recovery provide?

<https://docs.microsoft.com/en-us/azure/site-recovery/site-recovery-overview#what-does-site-recovery-provide>



Disaster Recovery in Azure Video

<https://www.youtube.com/watch?v=8fvO3WArG-Y>

Resources



Protect your on-premises infrastructure from disasters

<https://docs.microsoft.com/en-us/learn/modules/protect-on-premises-infrastructure-with-azure-site-recovery/>



Protect your virtual machines by using Azure Backup

<https://docs.microsoft.com/en-us/learn/modules/protect-virtual-machines-with-azure-backup/>



Design your site recovery solution in Azure

<https://docs.microsoft.com/en-us/learn/modules/design-your-site-recovery-solution-in-azure/>



Backup and restore your Azure SQL database

<https://docs.microsoft.com/en-us/learn/modules/backup-restore-azure-sql/>

