



**WIR STARTEN IN KÜRZE**

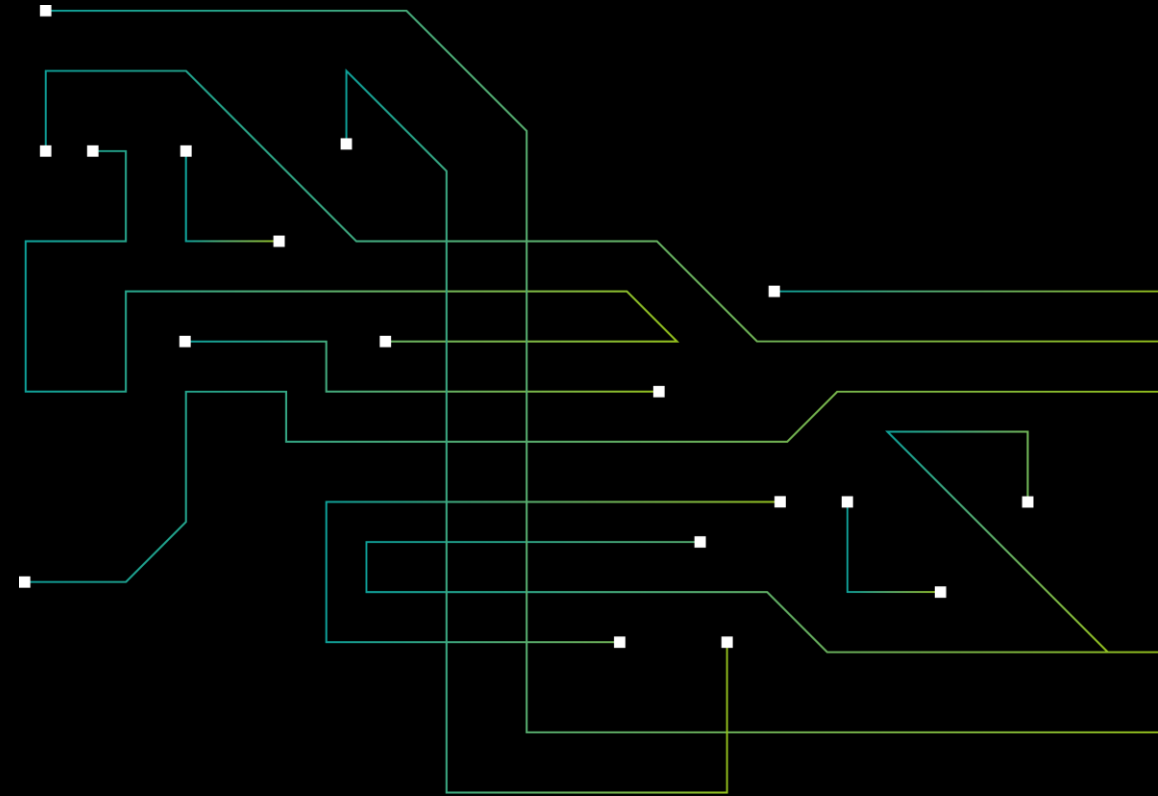
**WIR FREUEN UNS, DASS SIE DABEI SIND**

# Azure Infrastructure

What's new



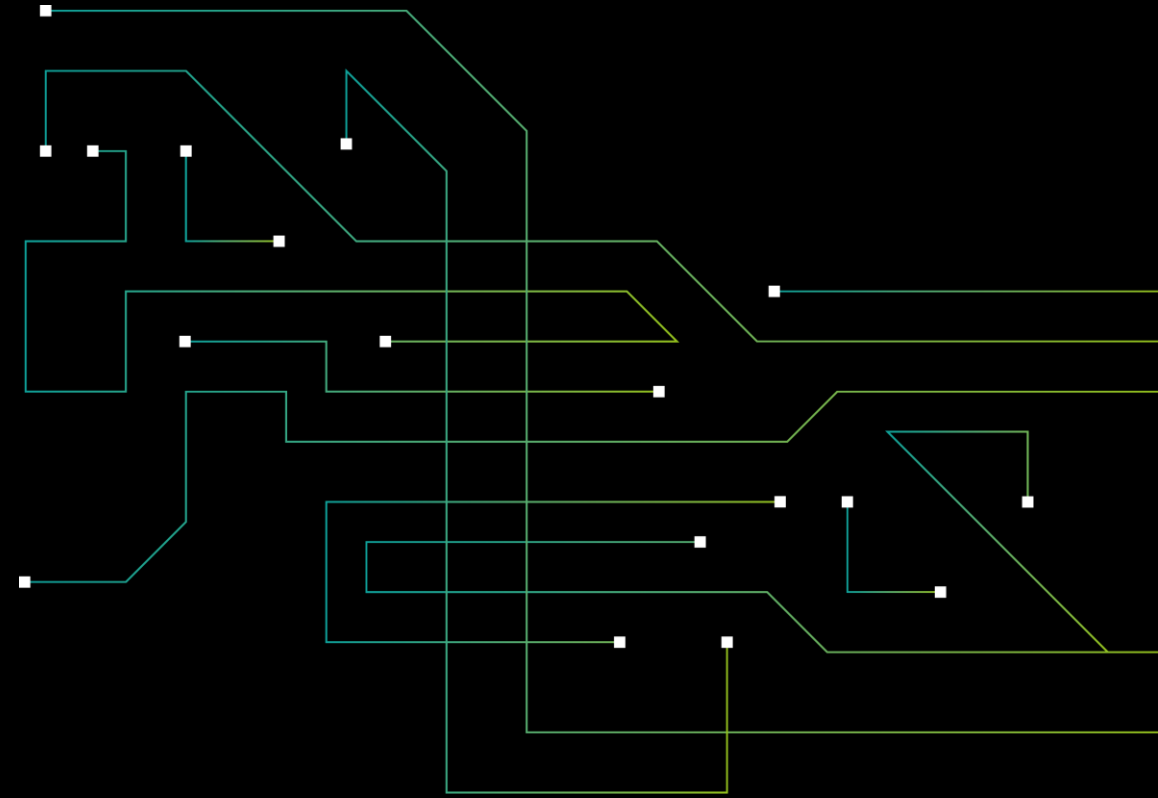
Markus Nowak | Lead Architect Azure & Datacenter Ost | Teamleitung



**professional.**  
**fast.**  
**secure.**

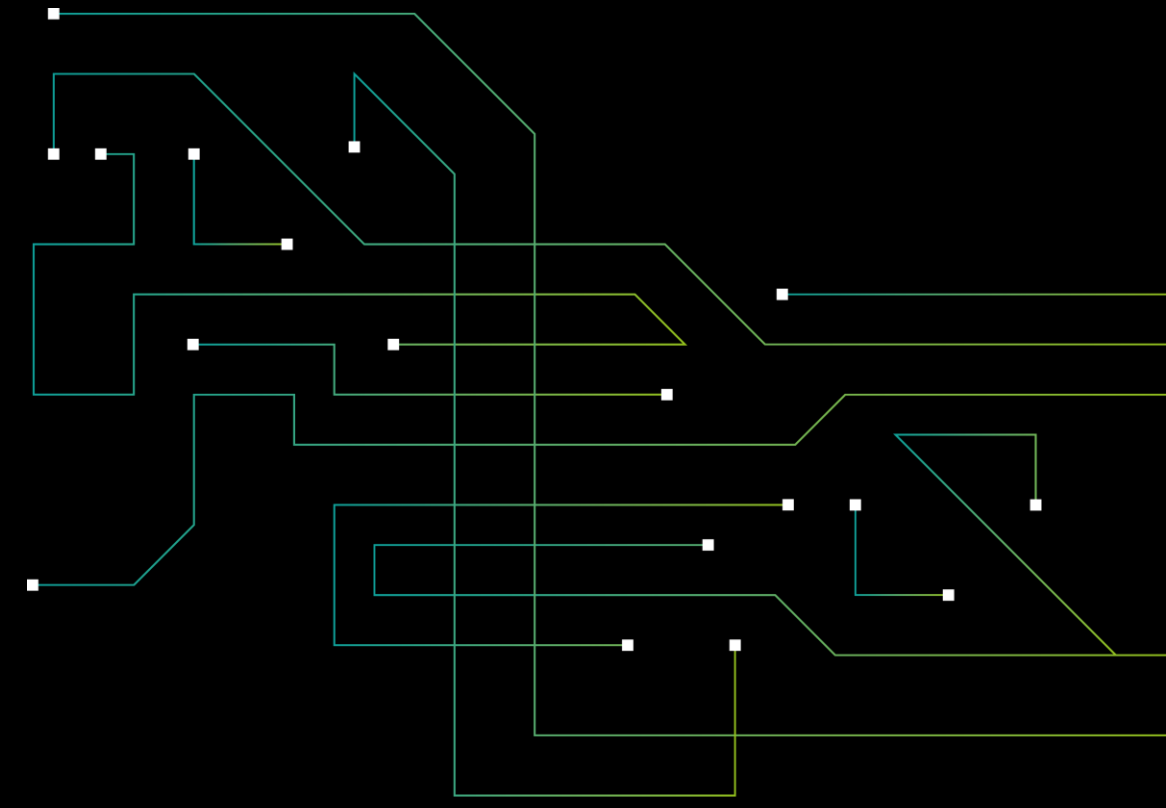
# Agenda

- Update Azure Cloud Regions Global
- Update Azure Cloud Region Austria East
- What's new for Azure infrastructure services



**professional.**  
**fast.**  
**secure.**

# Update Azure Regions Global



**professional.**  
**fast.**  
**secure.**

# AZURE INFRASTRUCTURE – WHAT’S NEW



## Update Azure Cloud Regions Global

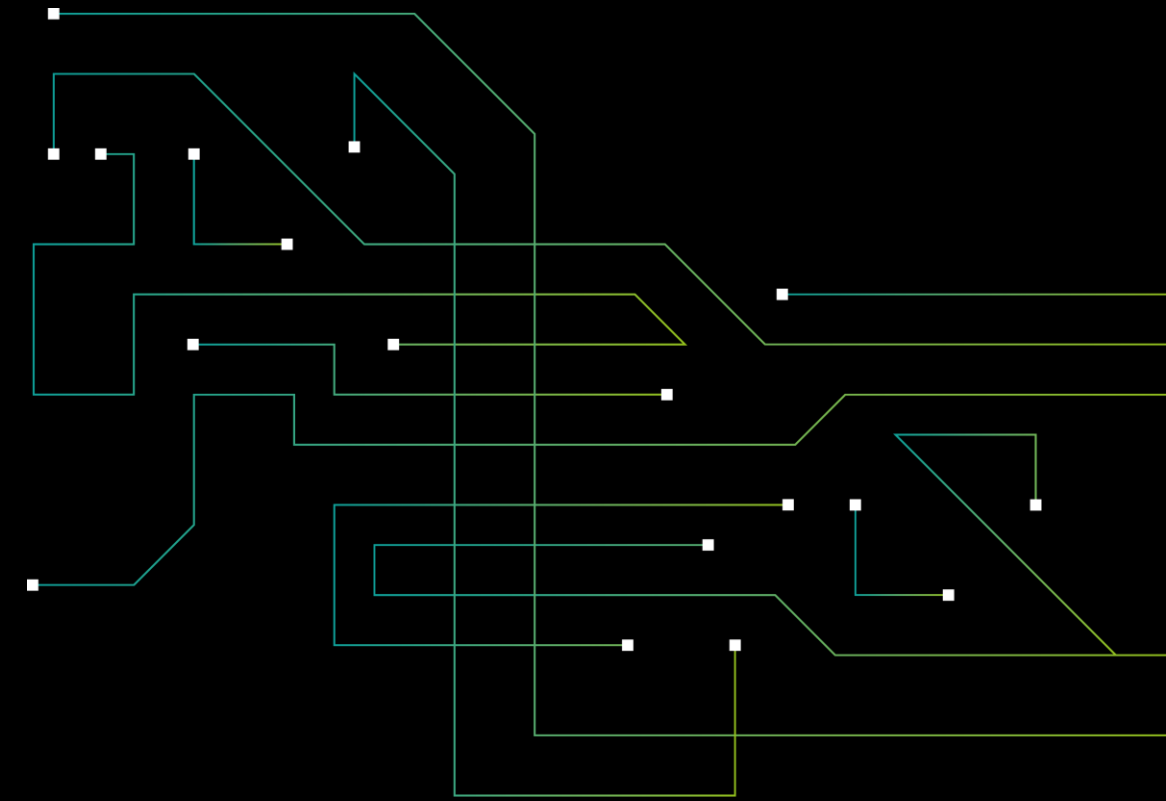
- **UK South:** We recently [announced a \\$3.2 billion investment](#) in next generation AI datacenter infrastructure and have showcased how [customers in the United Kingdom are using the cloud](#) to produce products and services with a vision of excellence.
- **Sweden Central:** [Our investments in Sweden](#) help customers make the best use of their data while also meeting Microsoft’s sustainability goals with free air cooling, rainwater harvesting, use of renewable diesel for backup power, and partnering with Vattenfall to deliver a large-scale 24/7 renewable energy matching solution.
- **Germany West Central:** We recently [announced a doubling of our Azure capacity](#) by early 2024, as well as additional [AI-related infrastructure investments](#) coming. This is a region where our datacenters are perfectly situated in the center of Europe, allowing all European companies to access the Microsoft Cloud in a fast and secure manner.

These regions are the best place for new customers to begin their cloud journey, and for existing customers to grow their cloud footprint in Europe—with some of the best cost efficiencies and most comprehensive set of services. They will play a pivotal role in our European AI strategy, while continuing to meet European data boundary requirements. We have begun similar investment expansions for [Italy North](#), which recently launched, and for [Spain Central](#), which will launch in the coming months. These regions will quickly grow to have similar size and capabilities as the three regions above, over the next year or two.

While these regions offer cost savings, broad availability of services, and the capability to achieve long-term business growth, we have many additional regions across Europe that offer a cloud solution for every customer need. From network latency requirements to disaster recovery, compliance and data residency—such as the European Union (EU) Data Boundary, within which Microsoft has empowered our commercial customers to store and process their data securely within the EU. This list will continue to grow with our next European datacenter regions on the horizon in [Belgium](#), [Denmark](#), [Austria](#), [Finland](#), and [Greece](#).



# Update Azure Region Austria East



**professional.**  
**fast.**  
**secure.**

# AZURE INFRASTRUCTURE – WHAT’S NEW

Update Cloud Region Austria East



Regions	Austria East
	Coming soon
LOCATION	Vienna
YEAR OPENED	<a href="#">Coming soon</a>
AVAILABILITY ZONES PRESENCE	Coming soon
COMPLIANCE	<a href="#">Azure compliance offerings</a>
DATA RESIDENCY	Stored at rest in Austria <a href="#">Learn more</a>
DISASTER RECOVERY	Coming soon
PRODUCTS BY REGION	Coming soon
AVAILABLE TO	Coming soon



# AZURE INFRASTRUCTURE – WHAT'S NEW

Update Cloud Region Austria East

baseit

**Latest Microsoft Design Standards**

**Local encrypted data storage and data processing**

**Complete Cloud Stack**

**Coming soon: The 64th Microsoft Cloud Region „Austria East“**

**99.99% / 3AZs availability**

**Operated by Microsoft SecOps**

**Ultra-low <2ms Latency**

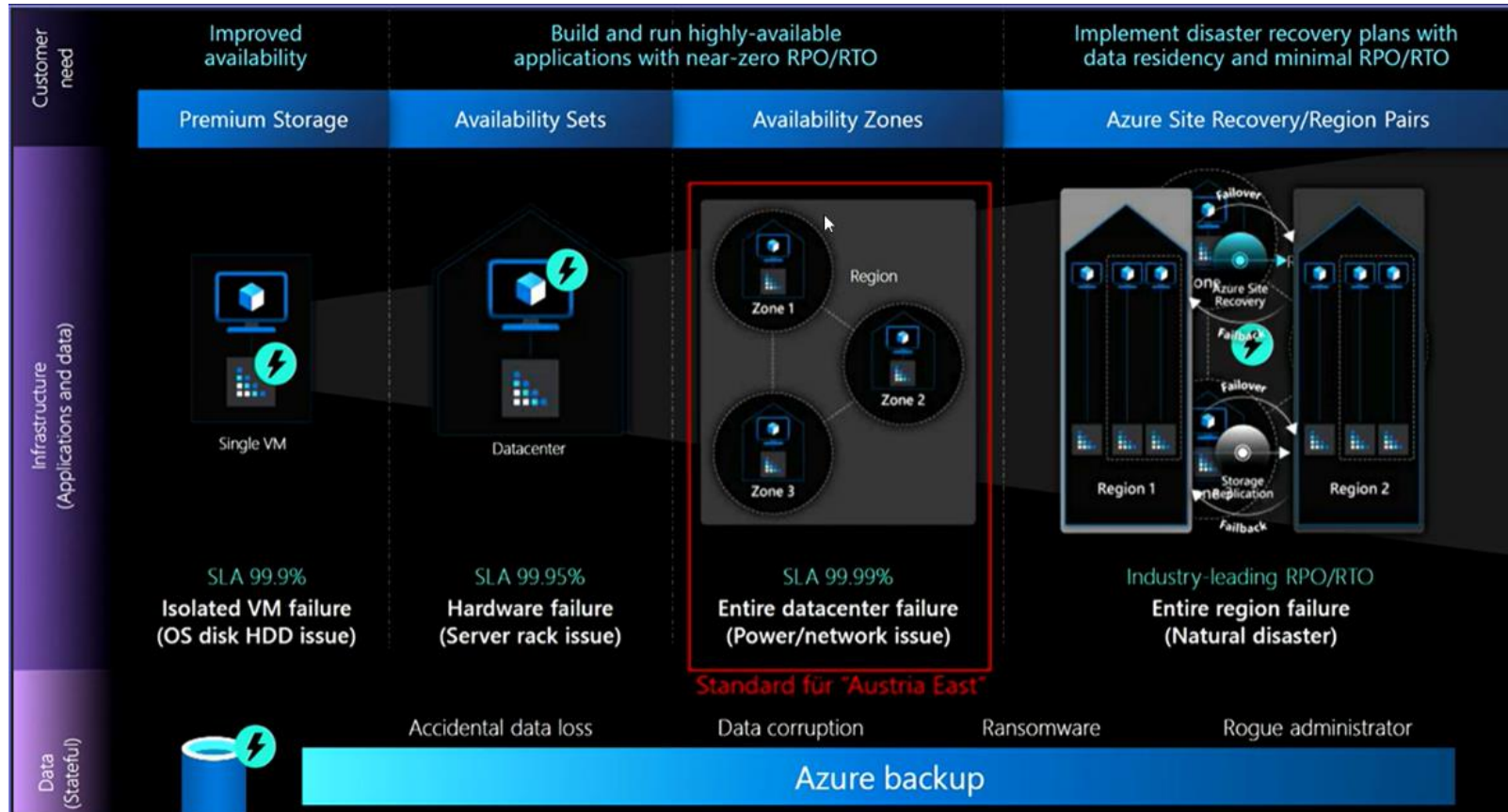
**Common Compliance Certifications**

**100% renewable energy for Microsoft datacenters**



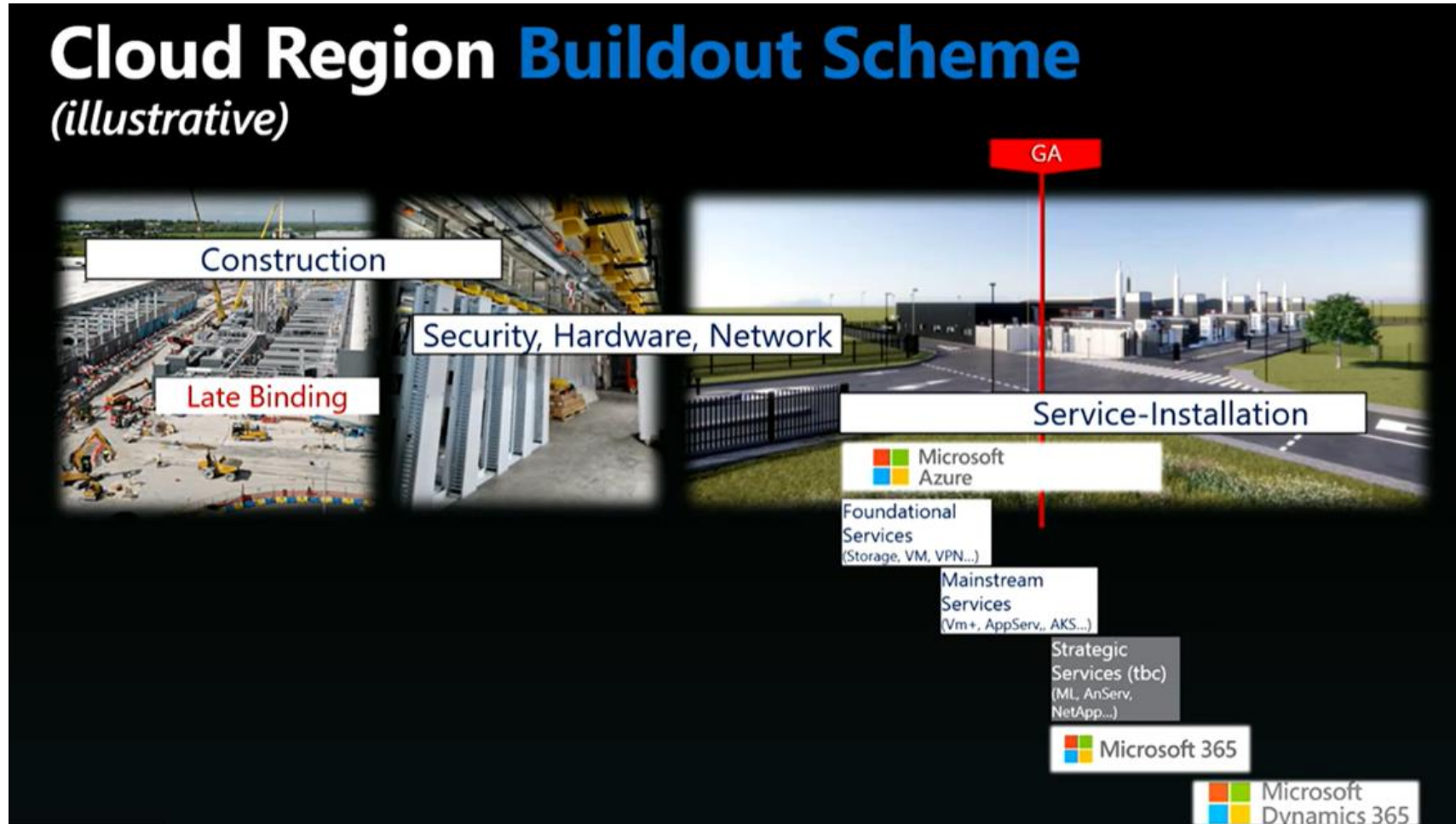
# AZURE INFRASTRUCTURE – WHAT'S NEW

Update Cloud Region Austria East



# AZURE INFRASTRUCTURE – WHAT'S NEW

Update Cloud Region Austria East



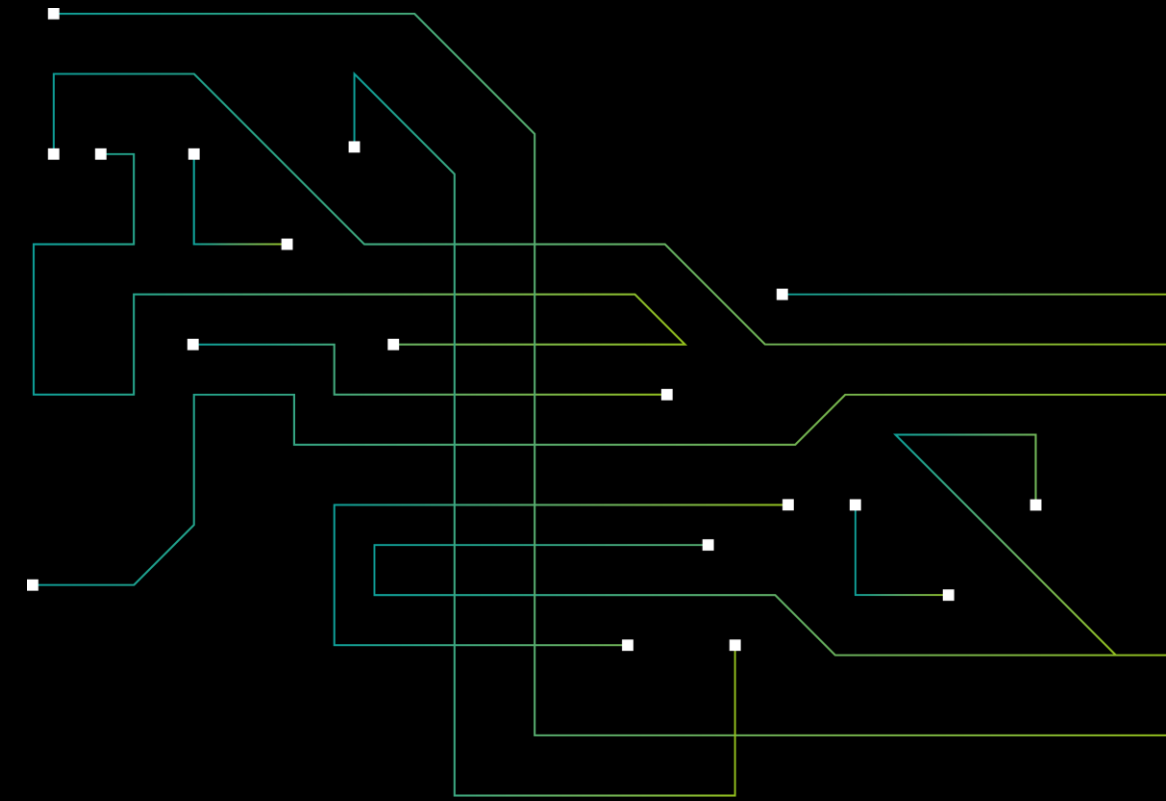
# AZURE INFRASTRUCTURE – WHAT’S NEW

Update Cloud Region Austria East – was bedeutet ein “Umzug” ?

- Umzug in die Cloud Region Austria East
  - Assessment durchführen, um Abhängigkeiten zu prüfen
    - <https://learn.microsoft.com/en-us/azure/azure-resource-manager/management/move-support-resources>
  - Prüfen, ob die jeweiligen Services in der Cloud Region Austria East zur Verfügung stehen werden
    - <https://azure.microsoft.com/en-us/explore/global-infrastructure/products-by-region/>
    - Region Austria East fehlt hier aktuell
  - Definition, was neu aufgebaut werden kann und was tatsächlich migriert werden muss
    - In einigen Fällen ist ein Parallelaufbau der Services effizienter und die Migration dadurch besser planbar, da vorab die neuen Services getestet werden können (z.B. Azure Virtual Network)
  - Der Azure Resource Mover kann unterstützen (sofern die Ressource als supported gekennzeichnet ist)
    - <https://learn.microsoft.com/en-us/azure/resource-mover/move-region-within-resource-group?toc=%2Fazure%2Fazure-resource-manager%2Fmanagement%2Ftoc.json>



# What's new for Azure infrastructure



**professional.**  
**fast.**  
**secure.**



## Single control plane with Azure Arc

**Azure Arc-enabled infrastructure**  
Connect and operate hybrid resources  
as native Azure resources



**Azure Arc-enabled services**  
Deploy and run Azure services outside of  
Azure while still operating it from Azure



  
Multi-cloud

  
Datacenter

  
Edge

# AZURE INFRASTRUCTURE – WHAT’S NEW



What’s new for Azure infrastructure services

- Compute and storage updates
  - AVD on Azure Stack HCI is now generally available
    - <https://techcommunity.microsoft.com/t5/azure-virtual-desktop-blog/azure-virtual-desktop-for-azure-stack-hci-now-available/ba-p/4038030>
    - **AutoScale Support für AVD on Azure Stack HCI is now in public preview**
      - [Azure Virtual Desktop for Azure Stack HCI now has autoscale | Azure Virtual Desktop blog \(microsoft.com\)](#)
  - **Azure Stack HCI 23H2 is now generally available**
    - <https://techcommunity.microsoft.com/t5/azure-stack-blog/azure-stack-hci-version-23h2-is-generally-available/ba-p/4046110>
      - Cloud based life-cycle management
      - Azure Arc (Resource Bridge) set up automatically
      - Templatize clusters in ARM
      - Manage updates for Azure Stack HCI clusters from the Azure portal
      - Expanded VM Extensions support including Microsoft Defender for Cloud, Azure Monitor, and Azure Update Management
      - Annual update for core stack (hypervisor, storage, etc.) with new deduplication and compression, Trusted Launch VMs, improved GPU support



# AZURE INFRASTRUCTURE – WHAT’S NEW



What’s new for Azure infrastructure services

- Compute and storage updates
  - Hotpatch für Windows Server Azure Edition with Desktop Experience is now generally available
    - <https://azure.microsoft.com/en-us/updates/hotpatch-is-now-generally-available-on-windows-server-2022-azure-edition-vms-with-the-desktop-experience-installation-mode/>
    - On-Prem for Azure Stack HCI
      - <https://learn.microsoft.com/en-us/azure-stack/hci/manage/windows-server-azure-edition?tabs=hci>
  - Windows Server 2025 Announcement
    - <https://techcommunity.microsoft.com/t5/windows-server-news-and-best/introducing-windows-server-2025/ba-p/4026374>
    - <https://ignite.microsoft.com/en-US/sessions/f3901190-1154-45e3-9726-d2498c26c2c9?source=sessions>
  - Azure Managed Disk Premium SSD V2 SKU available
    - <https://techcommunity.microsoft.com/t5/azure-storage-blog/azure-premium-ssd-v2-disk-storage-general-availability/ba-p/3649038>
      - With Premium SSD v2, you can specify a disk size ranging from 1 GiB up to 64 TiBs, with 1-GiB increments. On a single disk, you can provision up to 80,000 IOPS and 1,200 MBPS throughput
    - <https://learn.microsoft.com/en-us/azure/virtual-machines/disks-types#premium-ssd-v2>
    - <https://azure.microsoft.com/en-us/updates/premium-ssd-v2-and-ultra-disks-support-with-trusted-launch-vm/>
    - <https://azure.microsoft.com/en-us/updates/premium-ssd-v2-backup-support-ga/>

# AZURE INFRASTRUCTURE – WHAT’S NEW



What’s new for Azure infrastructure services

- Compute and storage updates
  - Improved throughput performance on Azure Disks’ Standard SSD
    - <https://techcommunity.microsoft.com/t5/azure-storage-blog/azure-premium-ssd-v2-disk-storage-general-availability/ba-p/3649038>
      - Standard SSD Disks sizes E50 and below now have increased throughput limits of 100 MB/s. This means Standard SSD Disks sized with 8191 GBs capacity and below now have 100 MB/s, an increase from 60 MB/s
      - No additional steps are required to access this enhanced performance, and it's accessible across all regions
  - Crash Consistent VM Restore points
    - <https://azure.microsoft.com/en-us/updates/generally-available-crash-consistent-vm-restore-points/>
    - Announcing general availability support for multi disk crash consistency mode in VM restore points. A crash consistent VM restore point is an agentless solution that stores the VM configuration and point-in-time write-order consistent snapshots for all managed disks attached to a Virtual Machine
  - Immutable vault for Azure Backup
    - <https://learn.microsoft.com/en-us/azure/backup/backup-azure-immutable-vault-concept?tabs=recovery-services-vault>
  - Immutable BLOB storage (WORM)
    - <https://learn.microsoft.com/en-us/azure/storage/blobs/immutable-storage-overview>





# AZURE INFRASTRUCTURE – WHAT’S NEW

What’s new for Azure infrastructure services

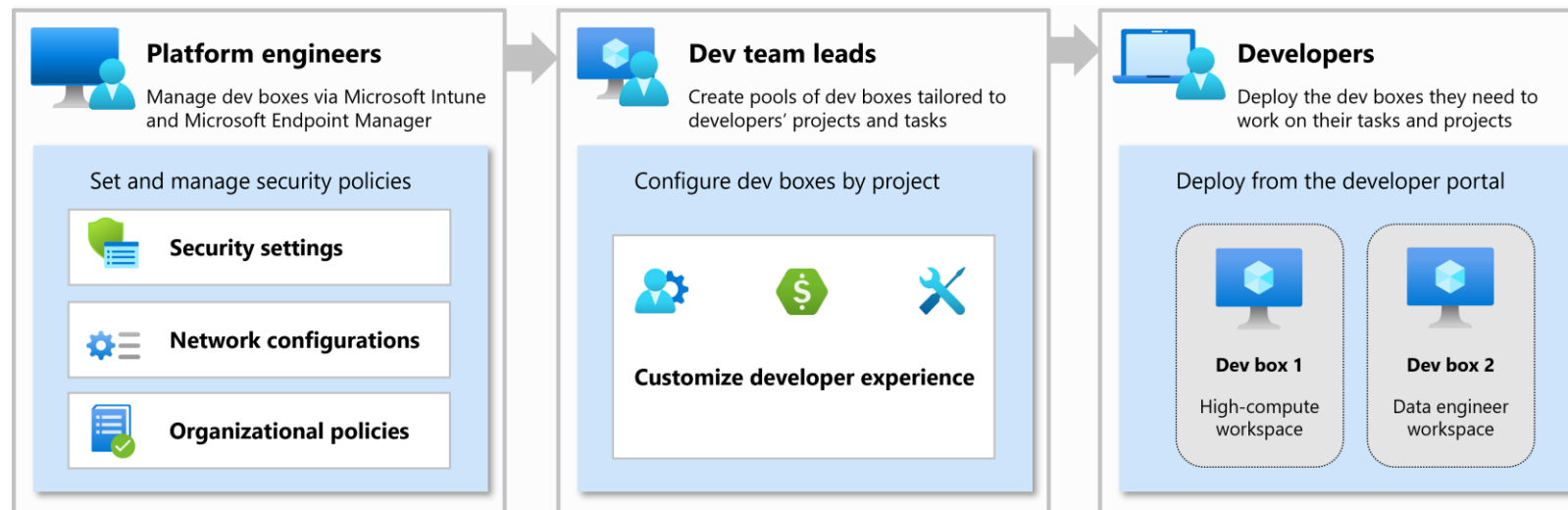
- Compute and storage updates

- Microsoft Azure Dev Box

- <https://azure.microsoft.com/en-us/blog/dev-optimized-cloud-based-workstations-microsoft-dev-box-is-now-generally-available/>

- New capabilities for Dev Box

- <https://techcommunity.microsoft.com/t5/microsoft-developer-community/new-capabilities-help-simplify-and-streamline-the-experience/ba-p/3981481>



# AZURE INFRASTRUCTURE – WHAT’S NEW



What’s new for Azure infrastructure services

- Azure Update Manager service for
  - Windows- and Linux Servers
    - Azure VMs (Azure Public Cloud or Azure Stack HCI)
      - Windows Server Guests and Windows Server Azure Edition Guests
    - Azure Stack HCI – Full Lifecycle Patching (Host and Guest OS)
      - Windows Server Guests and Windows Server Datacenter Azure Edition Guests
    - On-Premise VMs (Azure ARC enabled)
    - Bare Metal Server (Azure ARC enabled)
  - SQL-Server
    - Azure VMs
      - [Announcing GA of enhanced patching for SQL Server on Azure VM with Azure Update Manager - Microsoft Community Hub](#)
  - ARC Enabled SQL Server
    - <https://learn.microsoft.com/en-us/sql/sql-server/azure-arc/update?view=sql-server-ver16>



# AZURE INFRASTRUCTURE – WHAT’S NEW



What’s new for Azure infrastructure services

- Azure Networking

- Azure Virtual Encryption

- With Virtual Network encryption, customers can enable encryption of traffic between Virtual Machines and Virtual Machines Scale Sets within the same virtual network and between regionally and globally peered virtual networks. This new feature enhances the existing encryption in transit capabilities in Azure

- <https://learn.microsoft.com/en-us/azure/virtual-network/virtual-network-encryption-overview>

- Azure Virtual Network Manager

- Azure Virtual Network Manager is a management service that enables you to group, configure, deploy, and manage virtual networks globally across subscriptions. With Virtual Network Manager, you can define network groups to identify and logically segment your virtual networks. Then you can determine the connectivity and security configurations you want and apply them across all the selected virtual networks in network groups at once

- <https://learn.microsoft.com/en-us/azure/virtual-network-manager/overview>

- Default outbound access for VMs in Azure will be retired (30.09.2025)

- <https://azure.microsoft.com/en-us/updates/default-outbound-access-for-vm-in-azure-will-be-retired-transition-to-a-new-method-of-internet-access/>

- Azure NAT Gateway eliminates the need for the public IP address assigned to the NVA. Associating a NAT gateway with the public subnet of the NVA changes the routing for the public interface to route all outbound internet traffic through the NAT gateway. The elimination of the public IP address increases security and allows for the scaling of outbound source network address translation (SNAT) with multiple public IP addresses and or public IP prefixes

- <https://learn.microsoft.com/en-us/azure/nat-gateway/tutorial-migrate-ilip-nat>



# AZURE INFRASTRUCTURE – WHAT’S NEW



What’s new for Azure infrastructure services

- Azure Networking

- Basic SKU public IPs will be retired (30.09.2025)

- <https://azure.microsoft.com/en-us/updates/upgrade-to-standard-sku-public-ip-addresses-in-azure-by-30-september-2025-basic-sku-will-be-retired/>

- Upgrade your basic SKU public IPs to Standard SKU

- <https://learn.microsoft.com/en-us/azure/virtual-network/ip-services/public-ip-basic-upgrade-guidance>

- Check your VPN gateway SKUs and migrate if you are using legacy SKUs

- <https://learn.microsoft.com/en-us/azure/vpn-gateway/vpn-gateway-about-skus-legacy>

- Azure Bastion updates

- Native connect via RDP and SSH instead of using the Azure portal

- <https://learn.microsoft.com/en-us/azure/bastion/connect-vm-native-client-windows>

- <https://learn.microsoft.com/en-us/azure/bastion/connect-vm-native-client-linux>

- Kerberos Authentication, Connect to VMs via IP address, Disable copy/paste (web-based clients) for Standard SKUs

- Azure Bastion Developer SKU

- <https://learn.microsoft.com/en-us/azure/bastion/quickstart-developer-sku>



# AZURE INFRASTRUCTURE – WHAT'S NEW



What's new for Azure infrastructure services

- Azure Monitoring

- Migrate to Azure Monitor Agent from Log Analytics agent (from MMA to AMA) (31.08.2024)

- <https://azure.microsoft.com/en-us/updates/were-retiring-the-log-analytics-agent-in-azure-monitor-on-31-august-2024/>

- Migrate to AMA

- <https://learn.microsoft.com/en-us/azure/azure-monitor/agents/azure-monitor-agent-migration>

- Use AMA Migration Helper

- <https://learn.microsoft.com/en-us/azure/azure-monitor/agents/azure-monitor-agent-migration-tools>

- Azure SCOM Managed Instance

- Is now Generally Available (GA)

- <https://techcommunity.microsoft.com/t5/azure-observability-blog/announcement-azure-monitor-scom-managed-instance-is-now/ba-p/3981338>

- Get SCOM Monitoring as PaaS Service

- <https://learn.microsoft.com/en-us/system-center/scom/operations-manager-managed-instance-overview?view=sc-om-2022>



# AZURE INFRASTRUCTURE – WHAT’S NEW

What’s new for Azure infrastructure services



- Azure Monitoring
  - Enable Insights to monitor Azure Virtual Desktop
  - <https://learn.microsoft.com/en-us/azure/virtual-desktop/insights?tabs=monitor>



# AZURE INFRASTRUCTURE – WHAT'S NEW

What's new for Azure infrastructure services

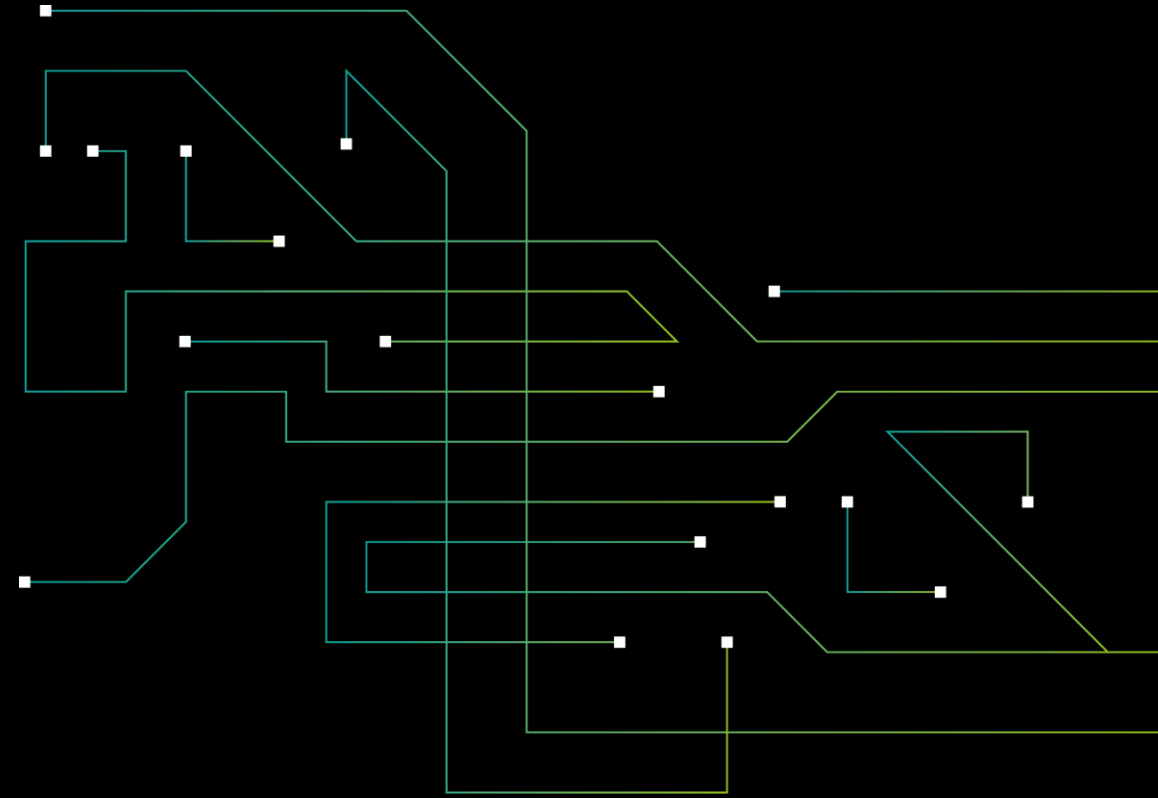


- General retirements sources
  - Use Azure Advisor with Service Retirement Workbook in your environment
    - <https://techcommunity.microsoft.com/t5/azure-architecture-blog/how-to-visualize-service-retirements-in-azure-advisor/ba-p/3885345>
  - Azure classic deployment model is retiring on 31.08.2024
    - <https://azure.microsoft.com/en-us/updates/cloud-services-classic-retirement-announcement-feb2024/>
    - Before that date, you'll need to migrate your services that were deployed using this model to Cloud Services (extended support) in Azure Resource
      - <https://learn.microsoft.com/en-us/azure/cloud-services-extended-support/in-place-migration-overview>



baseit

**THANK YOU!**



**professional.  
fast.  
secure.**