



Microsoft Azure

Azure News from Ignite 2017

Dr. Holger Sirtl
Cloud Solution Architect
Microsoft Deutschland GmbH

Already covered today...

- Azure Stack – Systems shipping <http://azure.com/azurestack>
- Azure Container Service – Managed Kubernetes
- Service Fabric for Linux/Java GA
- Azure Container Instances



Availability Zones (AZ)

Protection from entire DC failures

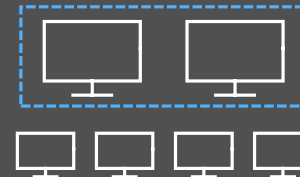
- Located inside an Azure region
- Each one has its own independent power source, network, and cooling.
- Minimum of three separate zones in all enabled regions.
- Available as a preview in East US 2 and West Europe
- Further Information
 - [Availability Zones Documentation](#)
 - [BRK2086: Azure with Availability Zones: Design Highly Available Applications on Microsoft](#)

VM SLA
99.9%



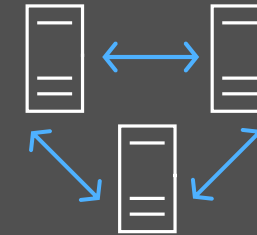
SINGLE VM
Protection with
Premium Storage

VM SLA
99.95%



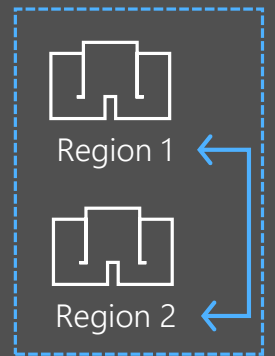
AVAILABILITY SETS
Protection
against failures
within
datacenters

VM SLA
99.99% at GA



AVAILABILITY ZONES
Protection from
entire datacenter
failures

REGIONS
42



REGION PAIRS
Protection from
disaster with
Data Residency
compliance

Reserved Virtual Machine Instances (RIs)

Reserve VMs for 1 or 3 year terms

- Cost Savings up to 82%
- Budget Predictability
- Simplicity and Flexibility
- Prioritized Compute Capacity
- Further Information
 - [Roadmap Announcement](#)
 - [BRK2262: Getting started with Azure Reserved VM Instances \(RIs\)](#)

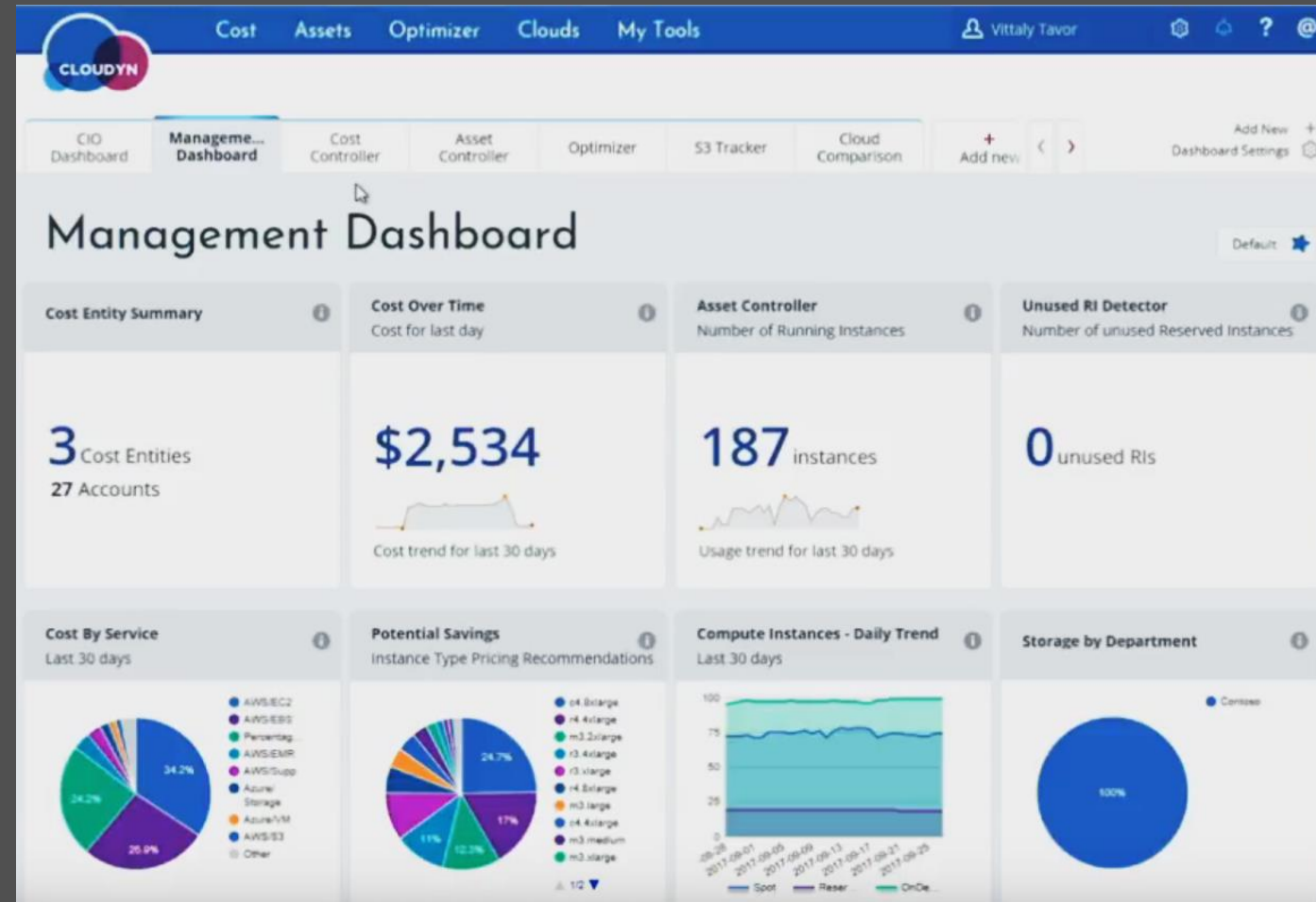
Typical savings with RI + Azure Hybrid Benefit



Azure Cost Management

Cloud Management Capabilities

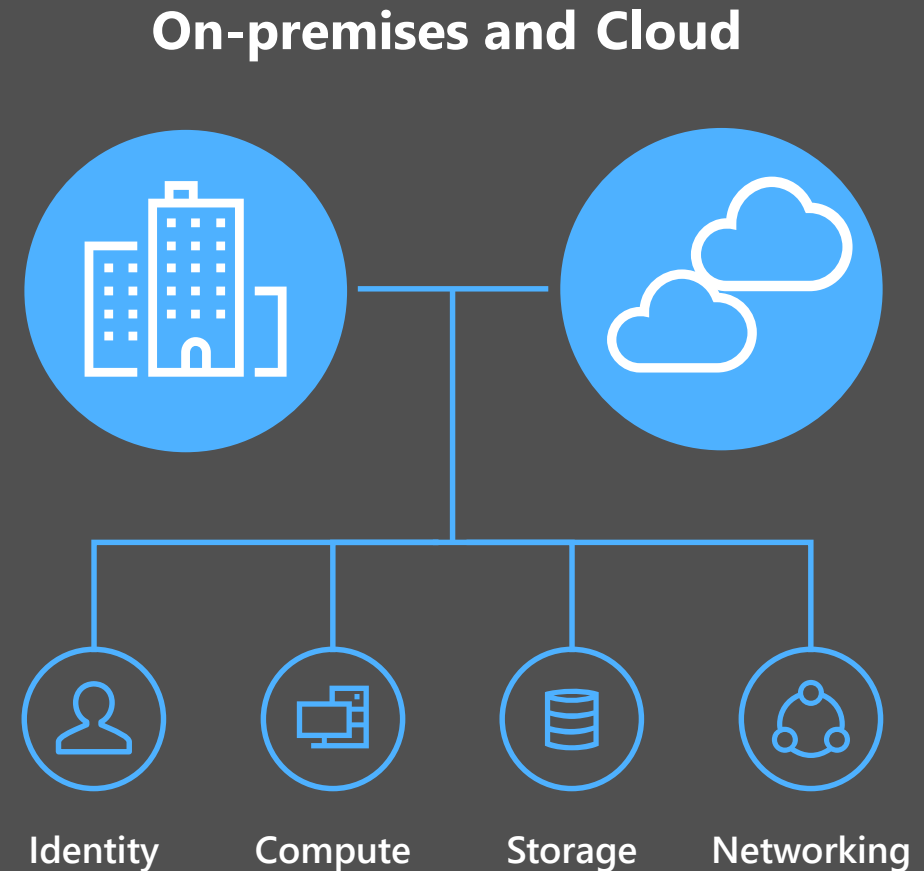
- Monitor cloud spend
- Policy-based management
- Optimize cloud efficiency
- Across Azure, AWS, GCP
- Further Information:
 - [Cost Management Homepage](#)
 - [BRK2081: Manage and optimize your cloud spend with Azure Cost Management by Cloudyn](#)



Azure Security Center hybrid support

Secure on-prem & cloud workloads

- Hybrid Capabilities
- Enterprise-wide policies
- Adaptive application controls
- Threat detection for Win/Linux
- Further Information:
 - <https://aka.ms/hybrid-asc>
 - [BRK3201: Simplify hybrid cloud protection with Microsoft Azure Security Center](#)



Azure Update Management

Manage and schedule VM updates

- Apply and monitor VM config
- Control when and how to apply OS updates
- Automate processes across Azure and on-premises DCs.
- Further Information
 - [Windows Updates](#), [Linux Updates](#)
 - [BRK3100: Manage Configurations and Update/Patch Windows and Linux Servers with Azure Management](#)

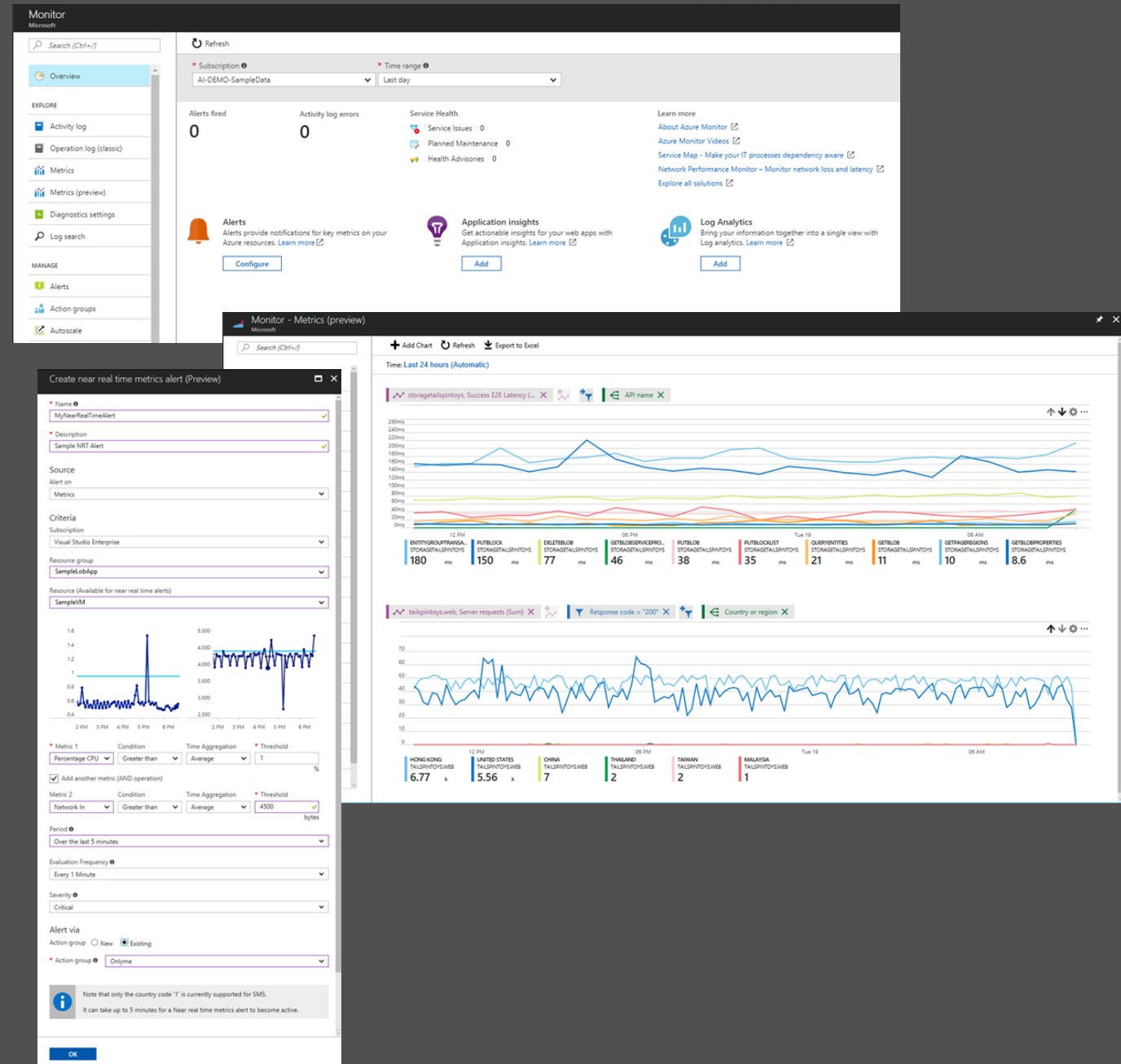
The screenshot shows the 'TestVMLinux - Update management (Preview)' interface. On the left is a navigation pane with sections: Overview, Activity log, Access control (IAM), Tags, Diagnose and solve problems, SETTINGS (Networking, Disks, Size, Extensions, Availability set, Configuration, Properties, Locks, Automation script), and OPERATIONS (Auto-shutdown). The main area displays update management metrics: Compliance (1 Critical, 26 Security, 317 Others), Missing updates (1 Critical, 26 Security, 317 Others), and Failed update deployments (0 out of 0). Below these are tabs for Missing updates, Update deployments, and Scheduled update deployments. A table lists missing updates with columns for Update Name, Classification, and Information Link.

UPDATE NAME	CLASSIFICATION	INFORMATION LINK
libsoup	Critical updates	RHSA-2017:2459-01
authconfig	Security updates	RHSA-2017:2285-02
curl	Security updates	RHSA-2017:2016-01
expat	Security updates	RHSA-2016:2824-01
glibc	Security updates	RHSA-2017:1916-01
glibc-common	Security updates	RHSA-2017:1916-01
gnutls	Security updates	RHSA-2017:2292-01
libcurl	Security updates	RHSA-2017:2016-01
libdrm	Security updates	RHSA-2017:1865-01
libn13	Security updates	RHSA-2017:2299-01
libn13-cli	Security updates	RHSA-2017:2299-01
libtasn1	Security updates	RHSA-2017:1860-01

Azure Monitor End-to-End Monitoring

Integrated view

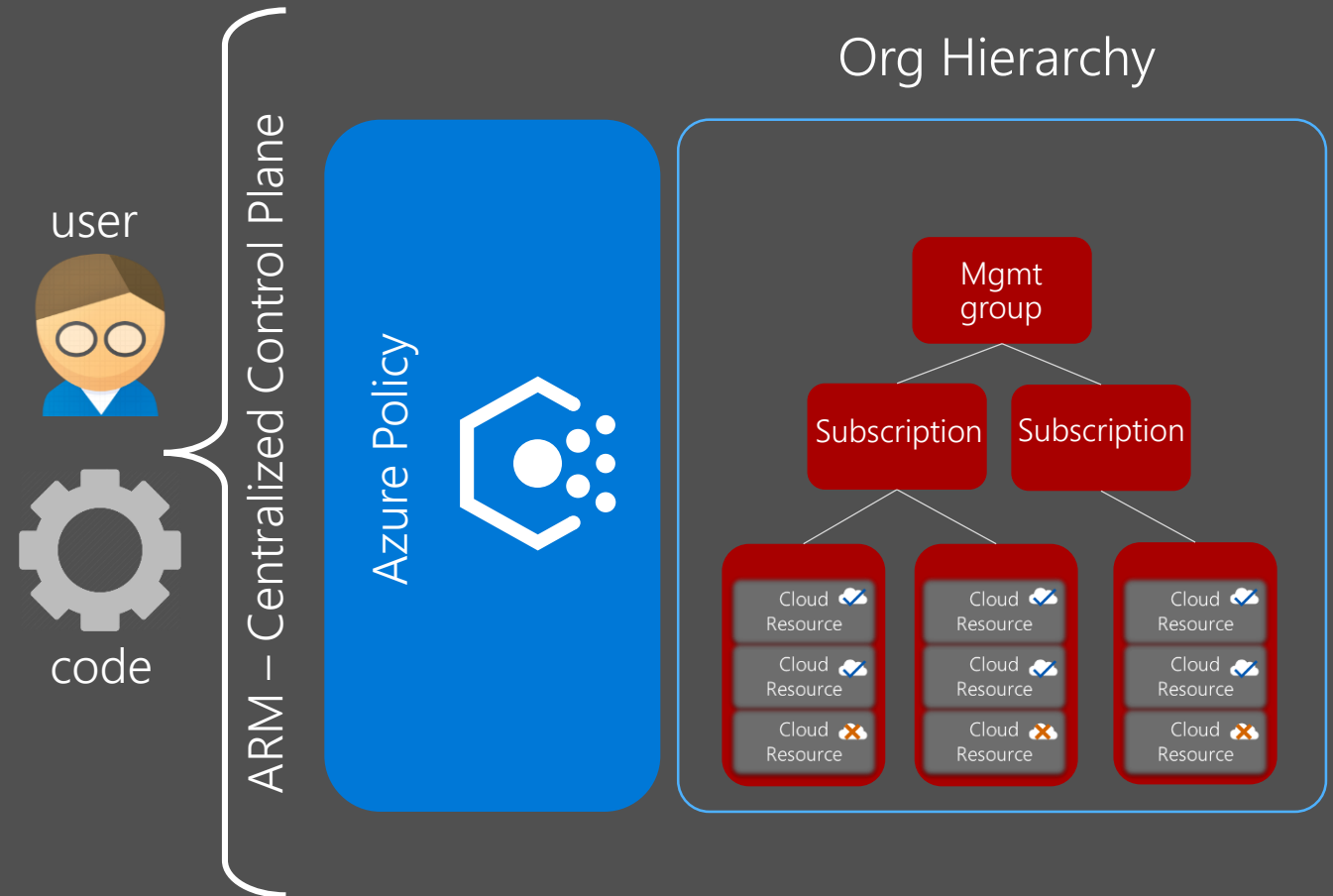
- Infrastructure and app monitoring in a single view
- Integration of Log Analytics, Application Insights and Azure Alerts
- Container Management Support
- Further information
 - [Ignite Announcements](#)



Azure Policy

Government across the entire Azure Environment

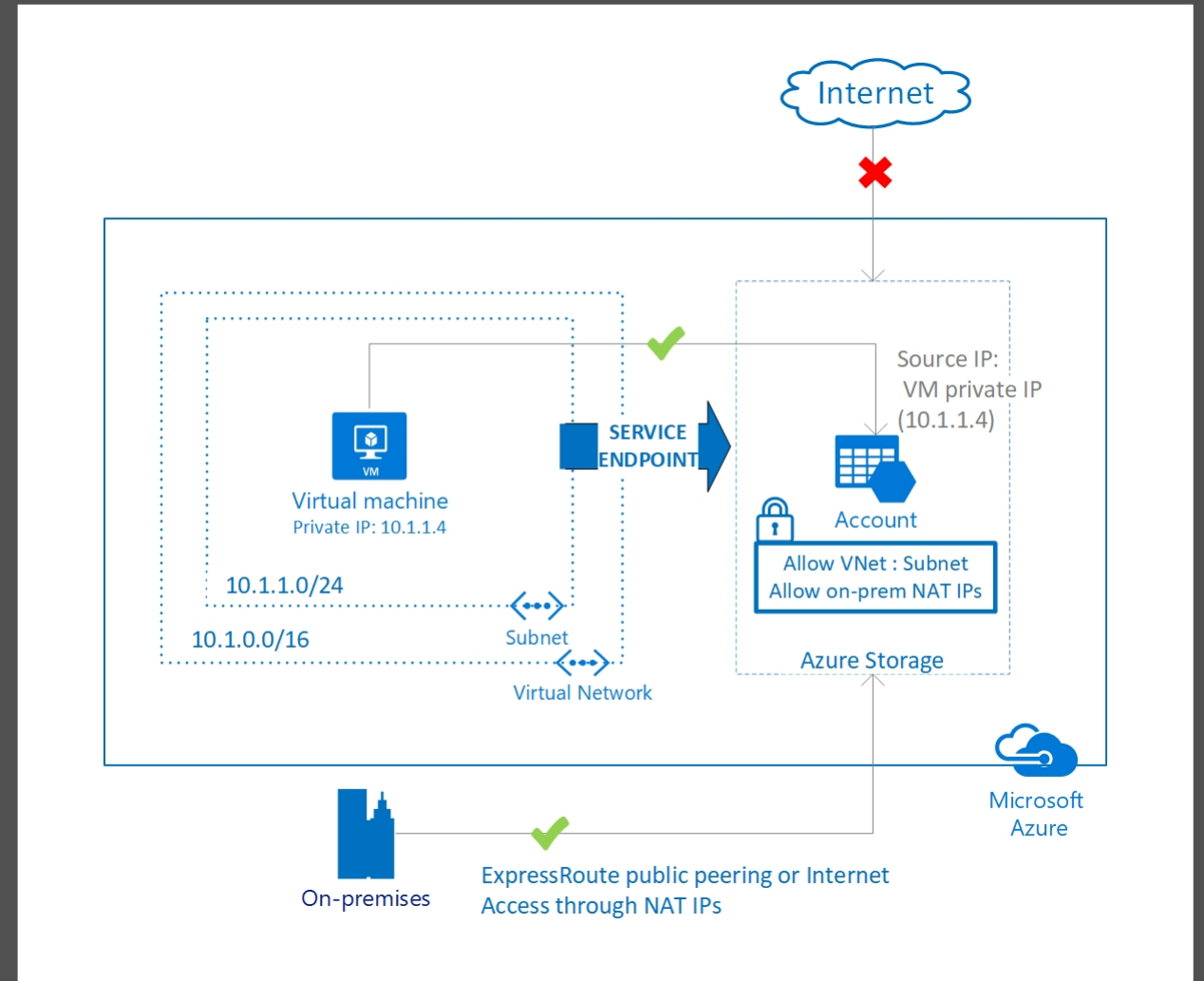
- Assess and enforce enterprise-wide governing standards
 - Add policies to resources
 - Apply Policies at scale
 - Monitor compliance
-
- Further information:
 - [Azure Policy Homepage](#)
 - [BRK2238: Implement governance in Microsoft Azure at scale with policy-based management](#)



Service Endpoints

Secure Azure PaaS service resources to your Virtual networks

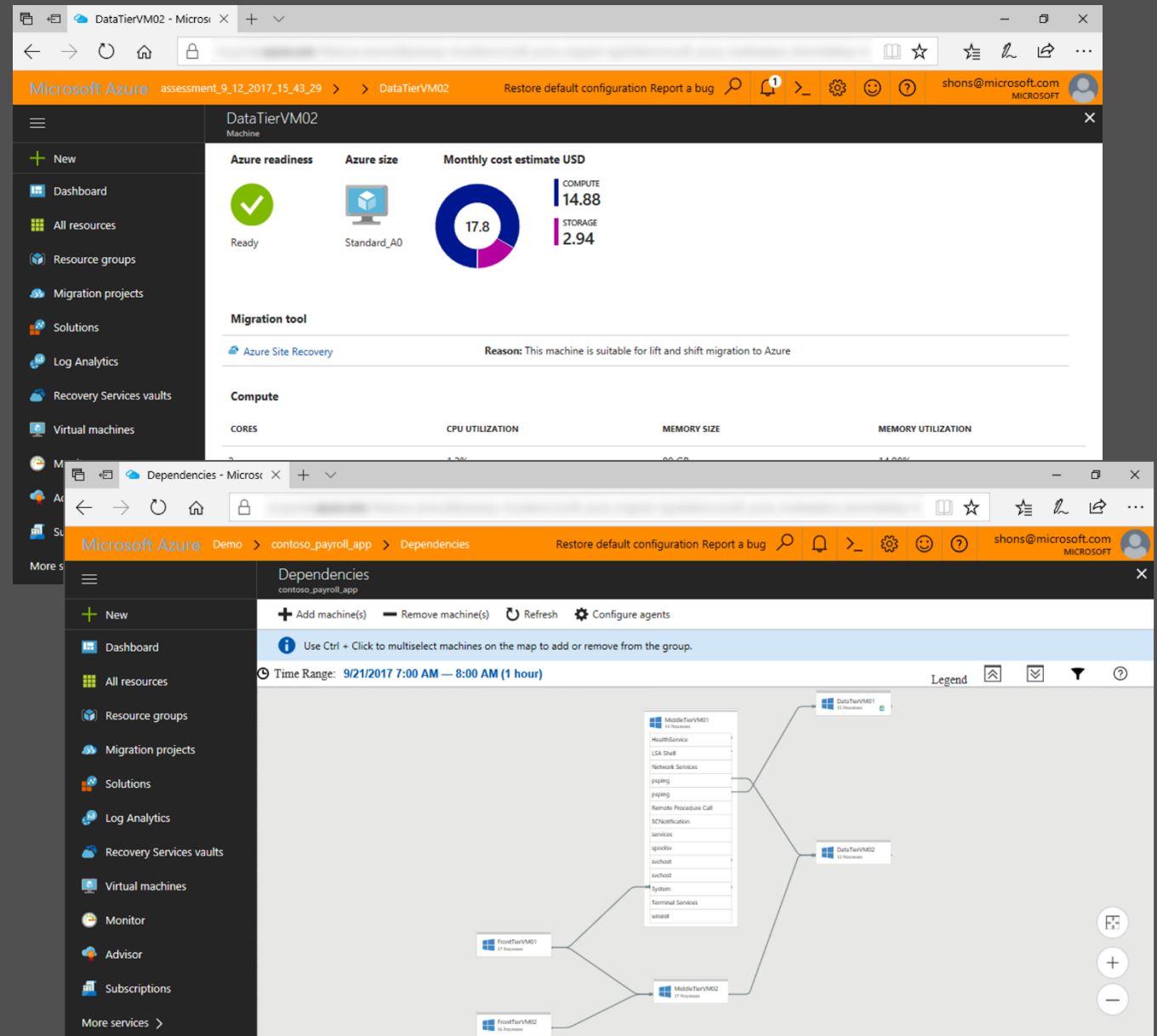
- Increased security for Azure Storage and Azure SQL DB
- Lower latencies
- Simple to set up
- No additional cost
- Further information
 - [Announcement Blog](#)
 - [Documentation](#)



Azure Migration

Guidance, insights and mechanisms needed with cloud migration

- Discover and assess VMs
- Inbuilt dependency mapping
- Rightsizing for Azure VMs
- Migrate workloads through seamless VM replication
- Further information:
 - [Azure Migrate Demo](#)
 - [BRK3243: Migrating to Azure using Azure Migrate and Azure Site Recovery](#)



Further Announcements

Cloud Infrastructure

Cloud Infrastructure

[Azure Reserved VM Instances](#) | [Reserved VM Instances](#)

Azure security and operations management | [Cloudyn](#), ASC, Monitor

[Azure Stack](#) | [Systems shipping](#)

[Availability Zones](#) | [Public Preview](#)

[Azure Batch](#) | [Low Priority VMs GA](#)

Azure Batch | [Rendering Service GA](#)

Azure Cloud Shell | [Public Preview \(PowerShell\)](#)

Azure Data Box Preview | [Public Preview](#)

Azure DDOS Protection | [Azure DDoS Public Preview](#)

Azure Files Sync | [Public Preview](#)

Azure IoT Hub | [PP: Feature \(Device Provisioning Service\)](#)

Azure IoT Suite: Remote Monitoring | [Avail to Purchase](#)

Azure Migrate | [Public Preview](#)

Azure Network Watcher | [Connectivity Check for Express Route](#)

Azure Traffic Manager Real User Measurements | [Public Preview](#)

Azure Traffic Manager Traffic View | [Public Preview](#)

Azure VPN Gateway | [P2S VPN from Apple Macs - GA](#)

Load Balancer Standard | [HA Ports - Public Preview](#)

Load Balancer Standard | [Public Preview](#)

Project "Honolulu" (new Win Server management experience) | [Public Preview](#)

[SDN - Global VNet Peering](#) | [Public Preview](#)

System Center | [System Center preview build \(semi-annual channel\)](#)

[VNet Service Endpoints for Azure Storage and Azure SQL](#) | [Public Preview](#)

Windows Server | [Windows Server, version 1709 GA](#)

SDN - IP Service Tags | [Public Preview](#)

ExpressRoute IPv6 support for Azure and Office365 | [GA](#)

Further Announcements

Data + Analytics

Data + Analytics

Business AI | Disclosure

Cognitive Services | GA Announcement- Text Analytics and Bing Custom Search

Azure Machine Learning updates | Public Preview

Azure SQL Database | Azure SQL DB Easy lift + shift cloud - Preannounce

SQL Server 2017 (Windows, Linux, and Docker) | SQL Server 2017 - GA

Azure SQL Database | Pools storage up to 4TB premium tier - GA

[Azure SQL Database](#) | [vNet Service Endpoints](#) - Public Preview

AppSource | Consulting Services Offers

Azure Cosmos DB | Database Auditing - GA

Azure SQL Database | Vulnerability Assessment - Public Preview

Machine Learning Services | ML Server SA benefit for Hadoop - GA

Machine Learning Services | Rename R Server to ML Server - GA

Power BI Desktop | GA

Azure Cosmos DB | Integration with Azure Functions - Public Preview

Azure Cosmos DB | New Metrics and Heatmaps - GA

Azure Data Factory | Azure Data Factory v2 - Public Preview

Azure SQL Database | Adaptive Query Processing - GA

Azure SQL Database | Graph Support - GA

Azure SQL Database | Intelligent Insights - Public Preview

Power BI service | GA

Project Orcas | Read Replicas Ignite announcement - Disclosure

Azure SQL Database | Native Scoring - Public Preview