Azure Saturday

Azure stack

Transform your data center to Azure

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Azure Advisor

?

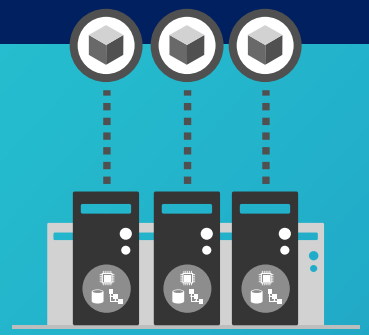
Cloud is a new way to think about your datacenter

Traditional model

- Dedicated infrastructure for each application
- Purpose-built hardware
- Distinct infrastructure and operations teams
- Customized processes and configurations

Cloud model

- Loosely coupled apps and micro-services
- Industry-standard hardware
- Service-focused DevOps teams
- Standardized processes and configurations



Servers

Services

Business and technical considerations

Regulations

Data sovereignty

Customization

Latency

Hybrid solution

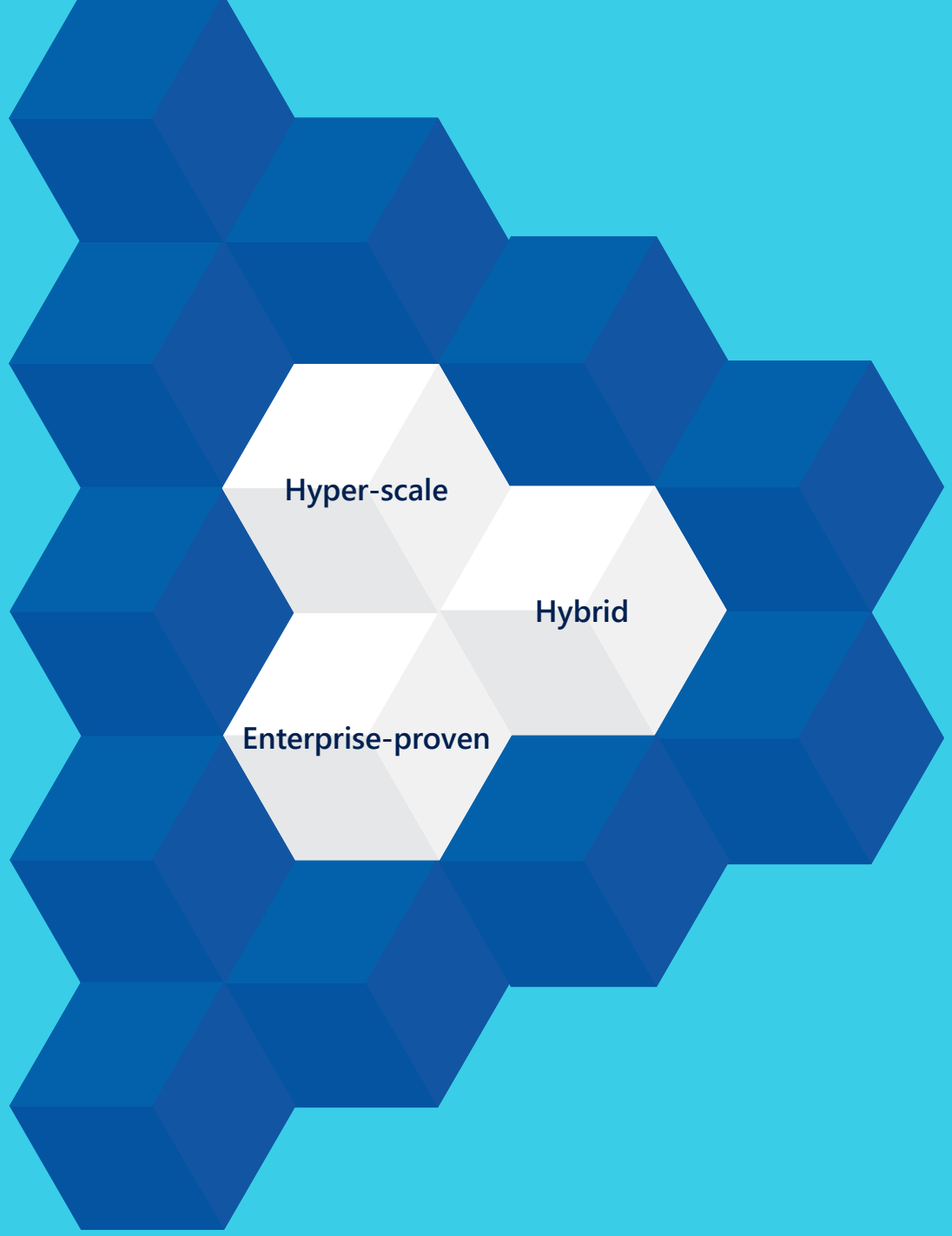
Inadequate alternatives

Public-cloud only doesn't address enterprise needs

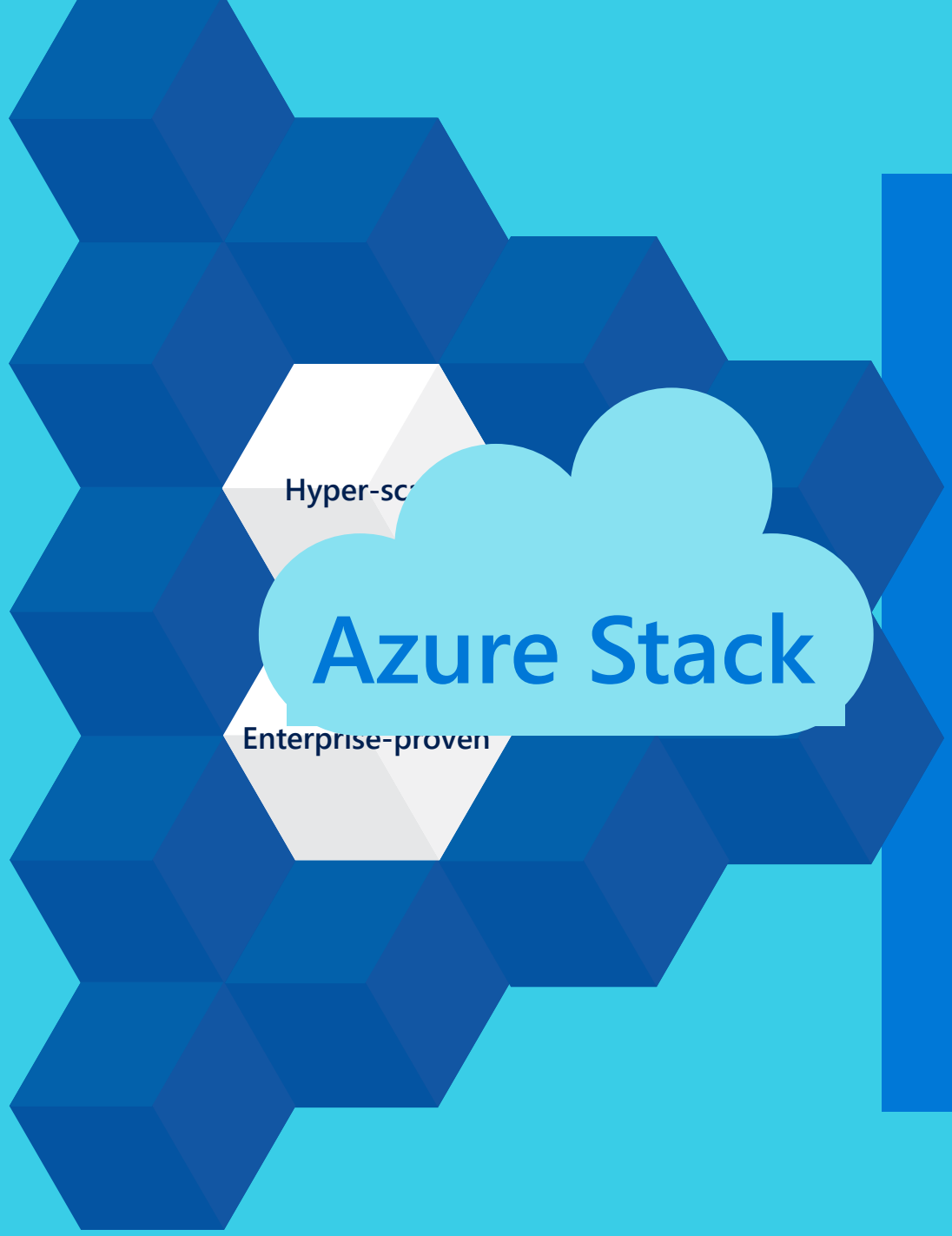
Ease of integration and deployment is critical

Virtualization isn't cloud; it's not designed for modern apps

Consistency



Azure

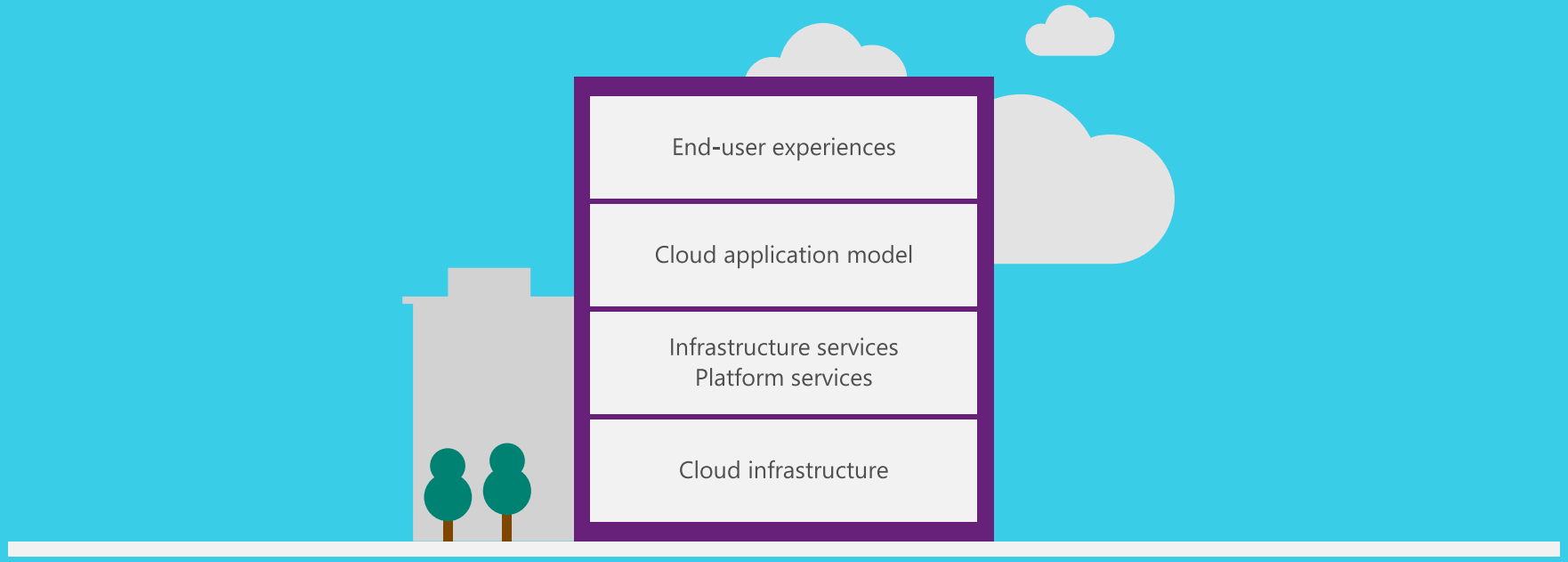


Power of Azure in your datacenter

Microsoft Azure Stack is a new hybrid cloud platform product that enables organizations to deliver Azure services from their own datacenter thereby helping them achieve more.

Azure Stack

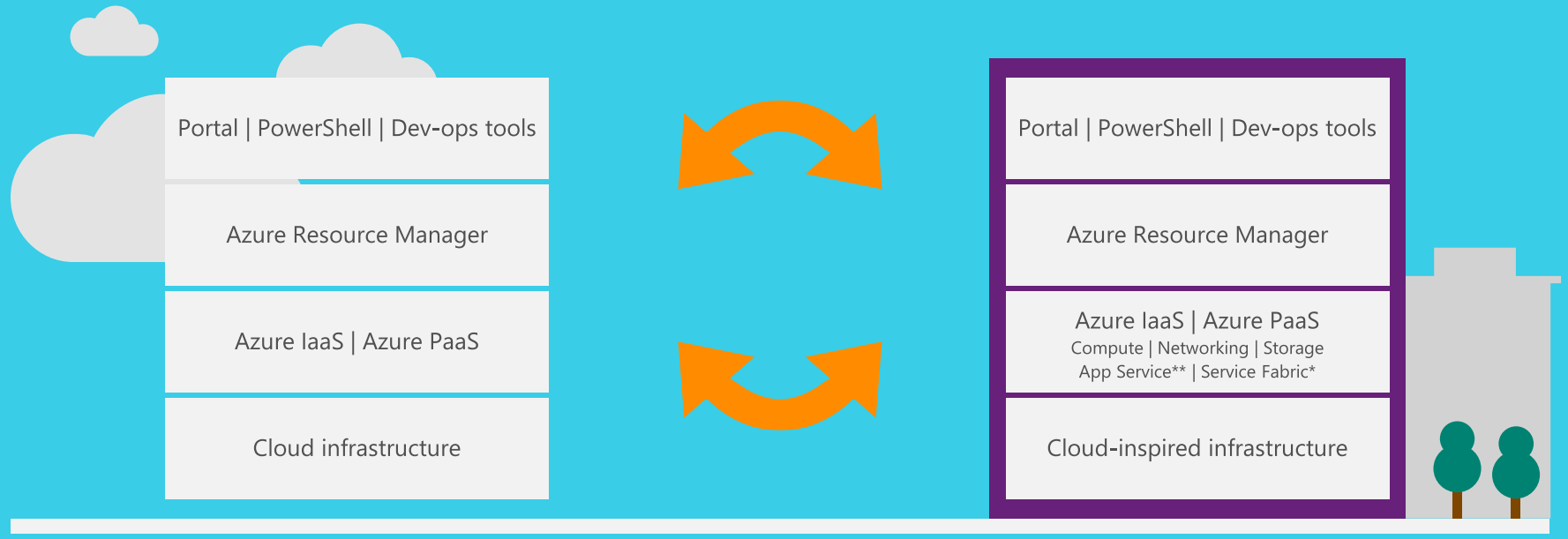
What does a hybrid cloud platform look like?



Private | Hosted | Public

Microsoft’s hybrid cloud platform

Power of Azure in your datacenter



Microsoft Azure
Public

Microsoft Azure Stack
Private | Hosted

Azure Stack: Smaller Scale

Same Azure experience!

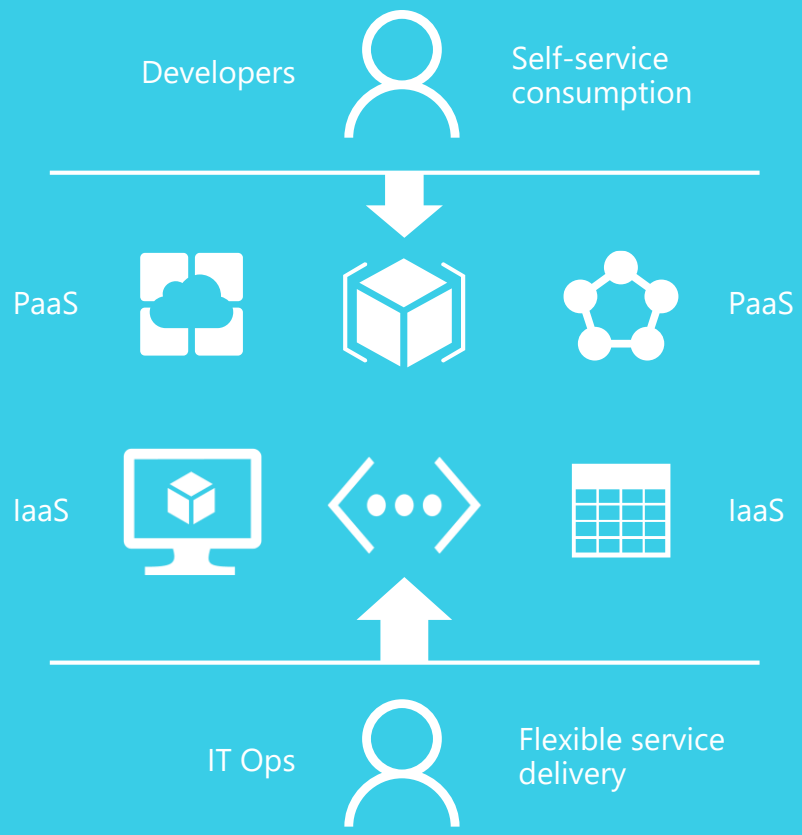
Azure services in your datacenter

Transform datacenter resources into cloud services

Self-service IaaS—Virtual Machines, Virtual Network, Storage, Docker-enabled containers

Self-service PaaS— App Service**, Service Fabric*

Flexible service delivery with Azure-based management and automation tools



Unified app development

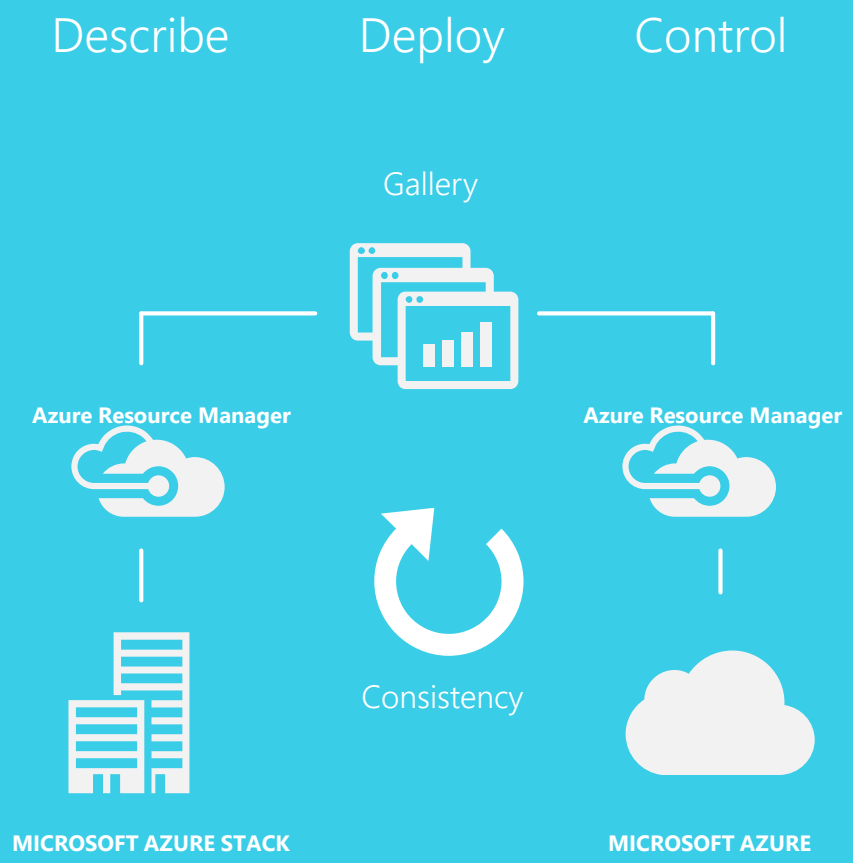
Write once, deploy to Azure or Azure Stack

Identical application model with same APIs

Role-based Access Control (RBAC)

Same deployment experience—PowerShell, Azure portal, or Visual Studio

Choice of open source application platforms, languages, and frameworks



One Azure ecosystem

Jump-start your Azure Stack efforts with the rich Azure ecosystem

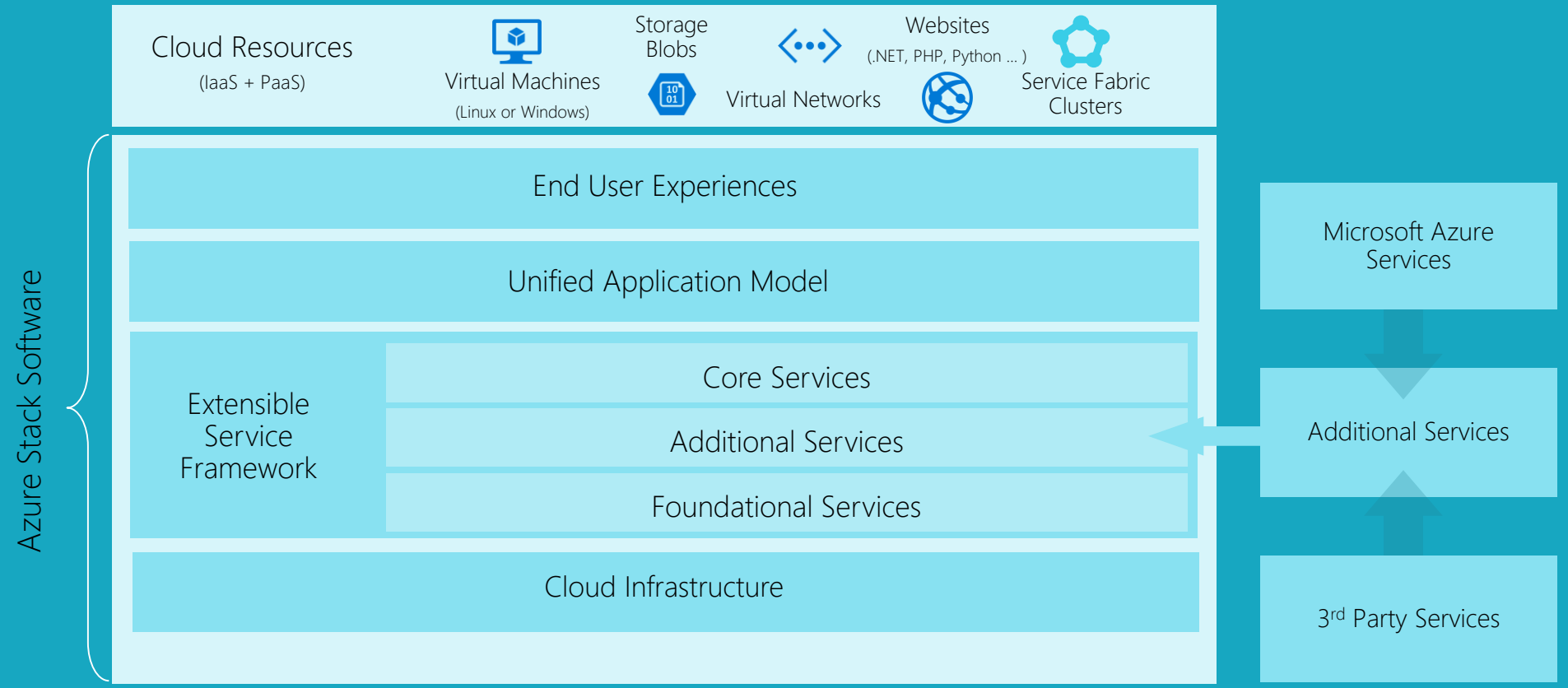
Azure Resource Manager templates

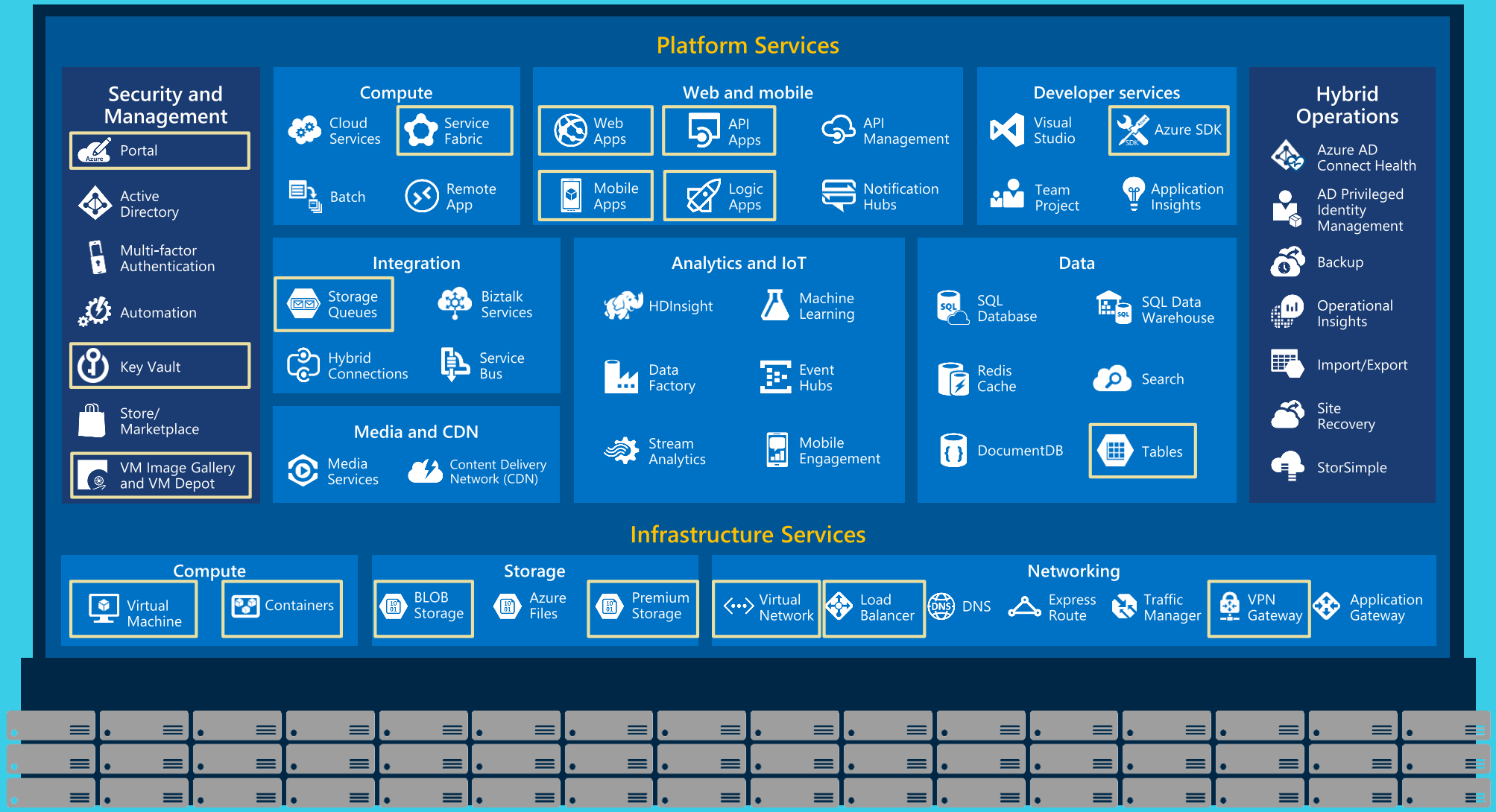
Windows Server and Linux VM images

Third-party services and extensions

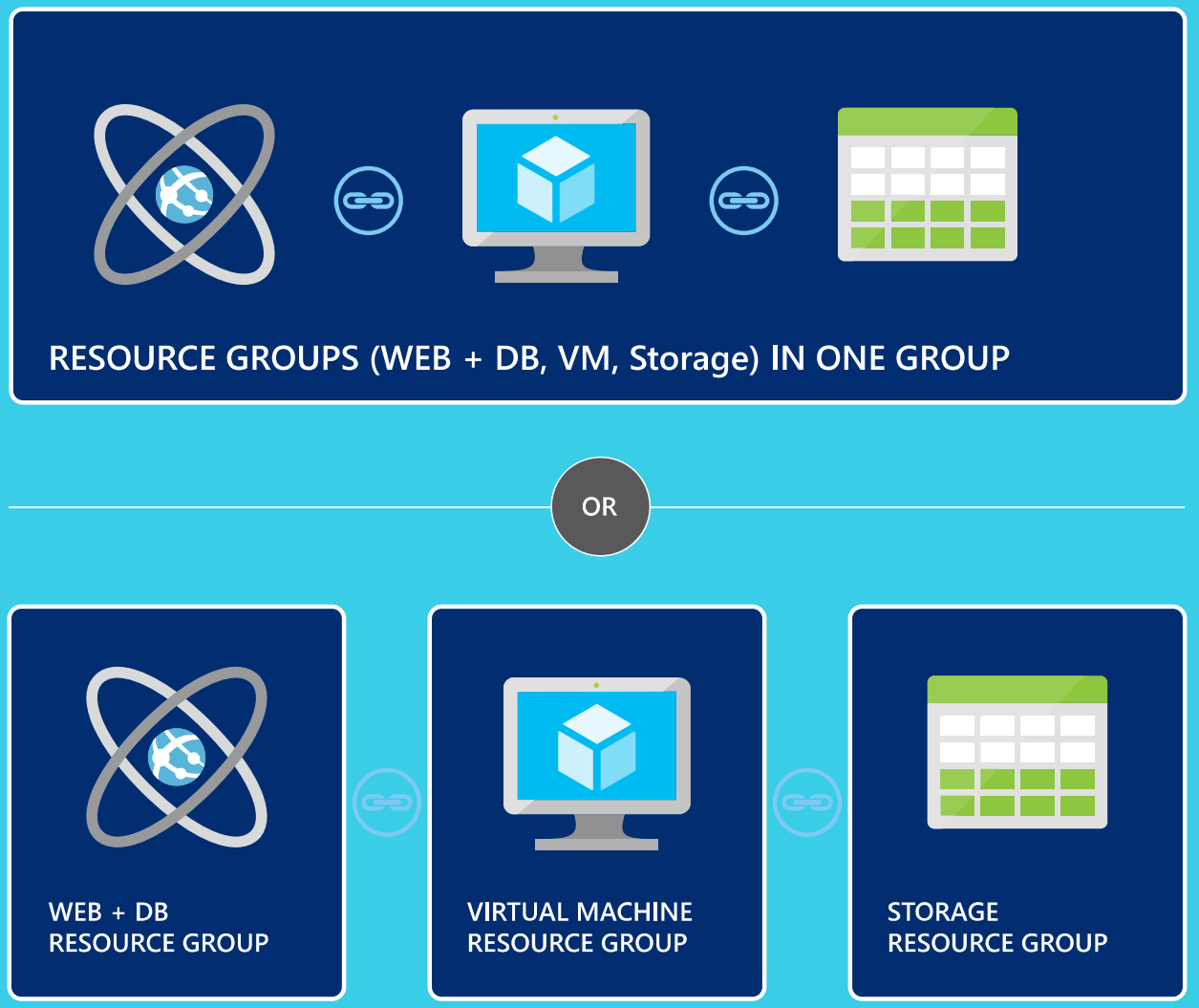
GitHub to store and share above application components

Azure Stack architecture summary

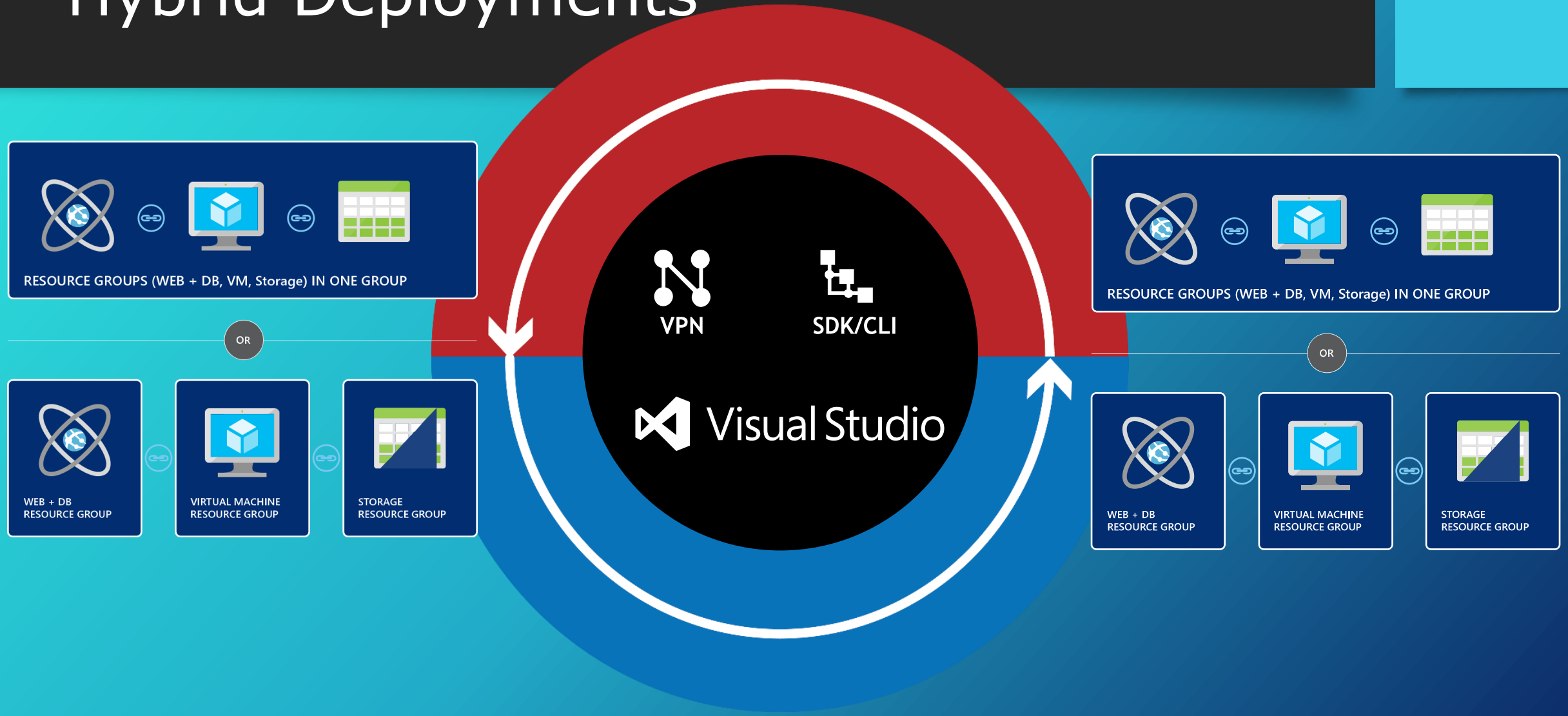



Platform Services
Security and Management
Portal
Active Directory
Multi-factor Authentication
Automation
Key Vault
Store/ Marketplace
VM Image Gallery and VM Depot
Compute
Cloud Services
Service Fabric
Batch
Remote App
Web and mobile
Web Apps
API Apps
API Management
Mobile Apps
Logic Apps
Notification Hubs
Developer services
Visual Studio
Azure SDK
Team Project
Application Insights
Hybrid Operations
Azure AD Connect Health
AD Privileged Identity Management
Backup
Operational Insights
Import/Export
Site Recovery
StorSimple
Integration
Storage Queues
Biztalk Services
Hybrid Connections
Service Bus
Media and CDN
Media Services
Content Delivery Network (CDN)
Analytics and IoT
HDInsight
Machine Learning
Data Factory
Event Hubs
Stream Analytics
Mobile Engagement
Data
SQL Database
SQL Data Warehouse
Redis Cache
Search
DocumentDB
Tables
Infrastructure Services
Compute
Virtual Machine
Containers
Storage
BLOB Storage
Azure Files
Premium Storage
Networking
Virtual Network
Load Balancer
DNS
Express Route
Traffic Manager
VPN Gateway
Application Gateway

Complex Deployments



Hybrid Deployments



Endpoints

Azure US Government Cloud
https://gallery.usgovcloudapi.net/
https://management.usgovcloudapi.net/
https://login.microsoftonline.com/

Azure Public Cloud
https://gallery.azure.com/
https://management.azure.com/
https://login.microsoftonline.com/

Azure China Cloud
https://gallery.chinacloudapi.cn/
https://management.chinacloudapi.cn/
https://login.chinacloudapi.cn/

Azure Stack Cloud
https://gallery.azurestack.local/
https://management.azurestack.local/
https://login.windows.net/<AAD org ID>/

Azure Resource Manager

Describe

WHERE
Resource Inventory

WHAT
Component Relationships

HOW
Tags + links + groups

Provision

WHERE
Across Regions

WHAT
Across Resources

HOW
In service and in guest

Control

WHO
Access control

WHAT
Changes

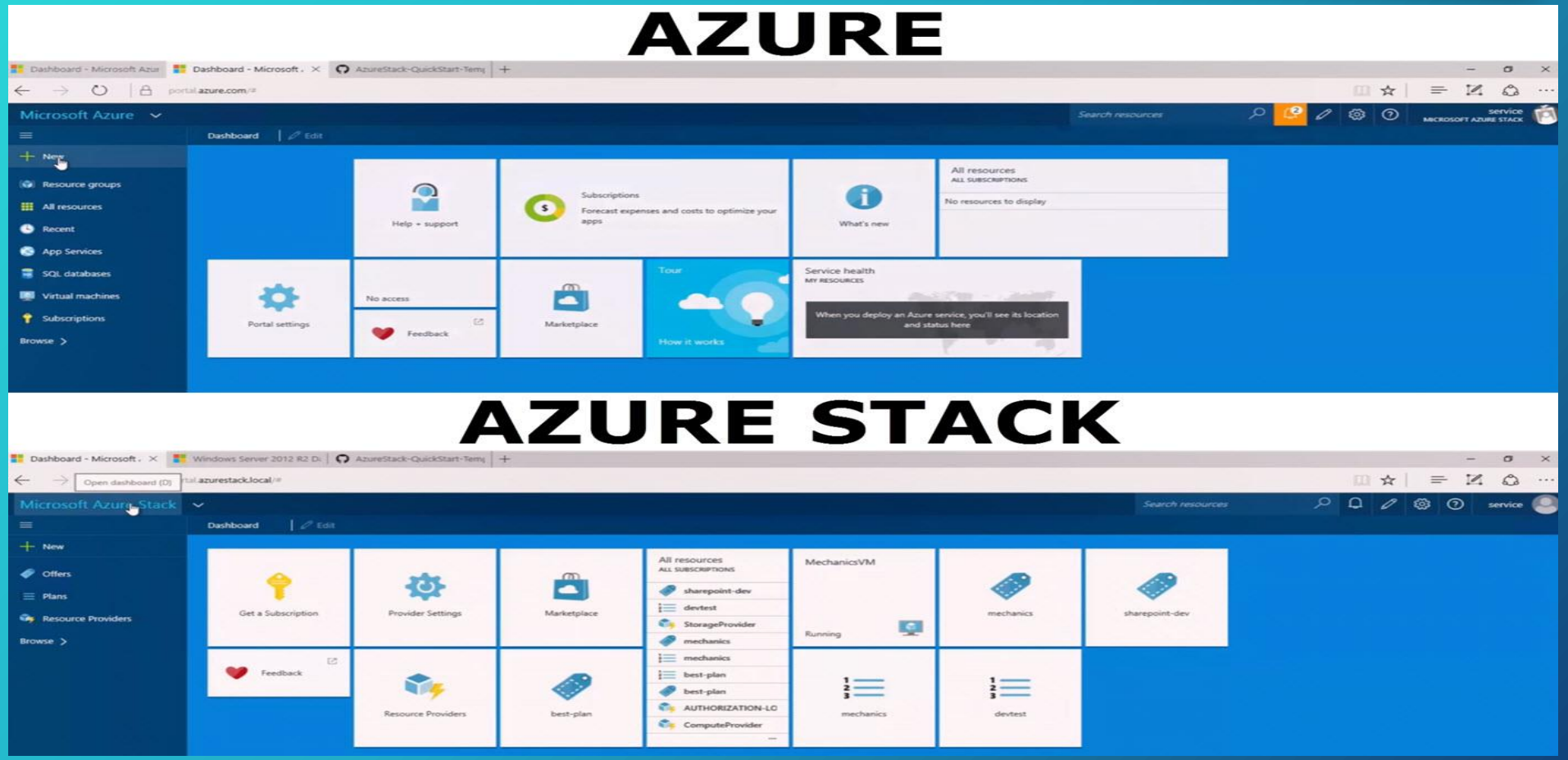
HOW
RBAC, subscriptions, and locks

Deployment

Component	Minimum	Recommended
Disk drives: Operating System	1 OS disk with minimum of 200 GB available for system partition (SSD or HDD)	1 OS disk with minimum of 200 GB available for system partition (SSD or HDD)
Disk drives: General Azure Stack POC Data	4 disks. Each disk provides a minimum of 140 GB of capacity (SSD or HDD). All available disks will be used.	4 disks. Each disk provides a minimum of 250 GB of capacity (SSD or HDD). All available disks will be used.
Compute: CPU	Dual-Socket: 12 Physical Cores (total)	Dual-Socket: 16 Physical Cores (total)
Compute: Memory	96 GB RAM	128 GB RAM
Compute: BIOS	Hyper-V Enabled (with SLAT support)	Hyper-V Enabled (with SLAT support)
Network: NIC	Windows Server 2012 R2 Certification required for NIC; no specialized features required	Windows Server 2012 R2 Certification required for NIC; no specialized features required

Let‘s start deployment

And at the end...



From TP1 to GA

What has changed?

DELL EMC

Hewlett Packard Enterprise

Lenovo™

Feedback

https://form.responster.com/C9EOb8

Thank you!