Microsoft

# Consuming the cloud

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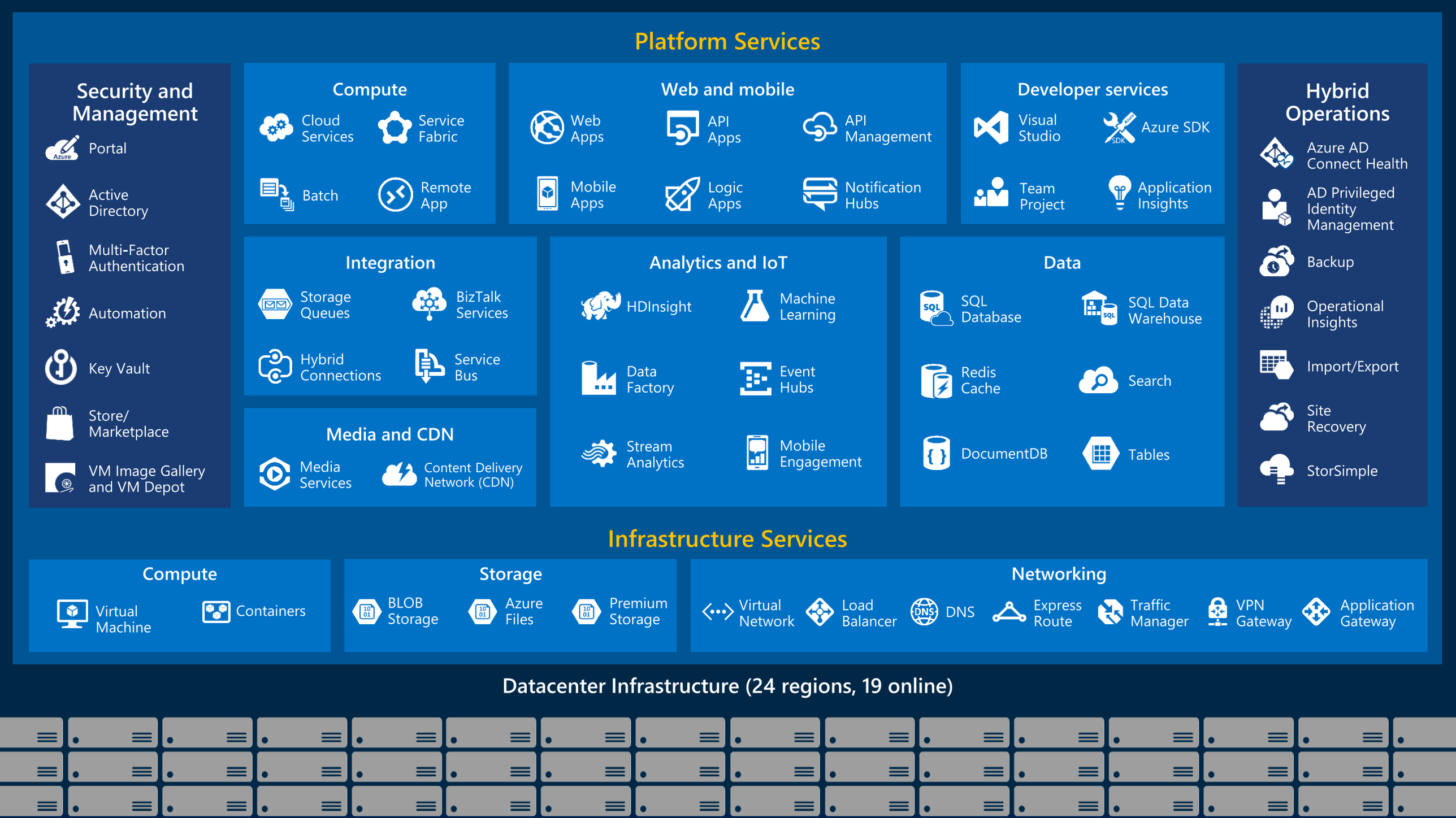
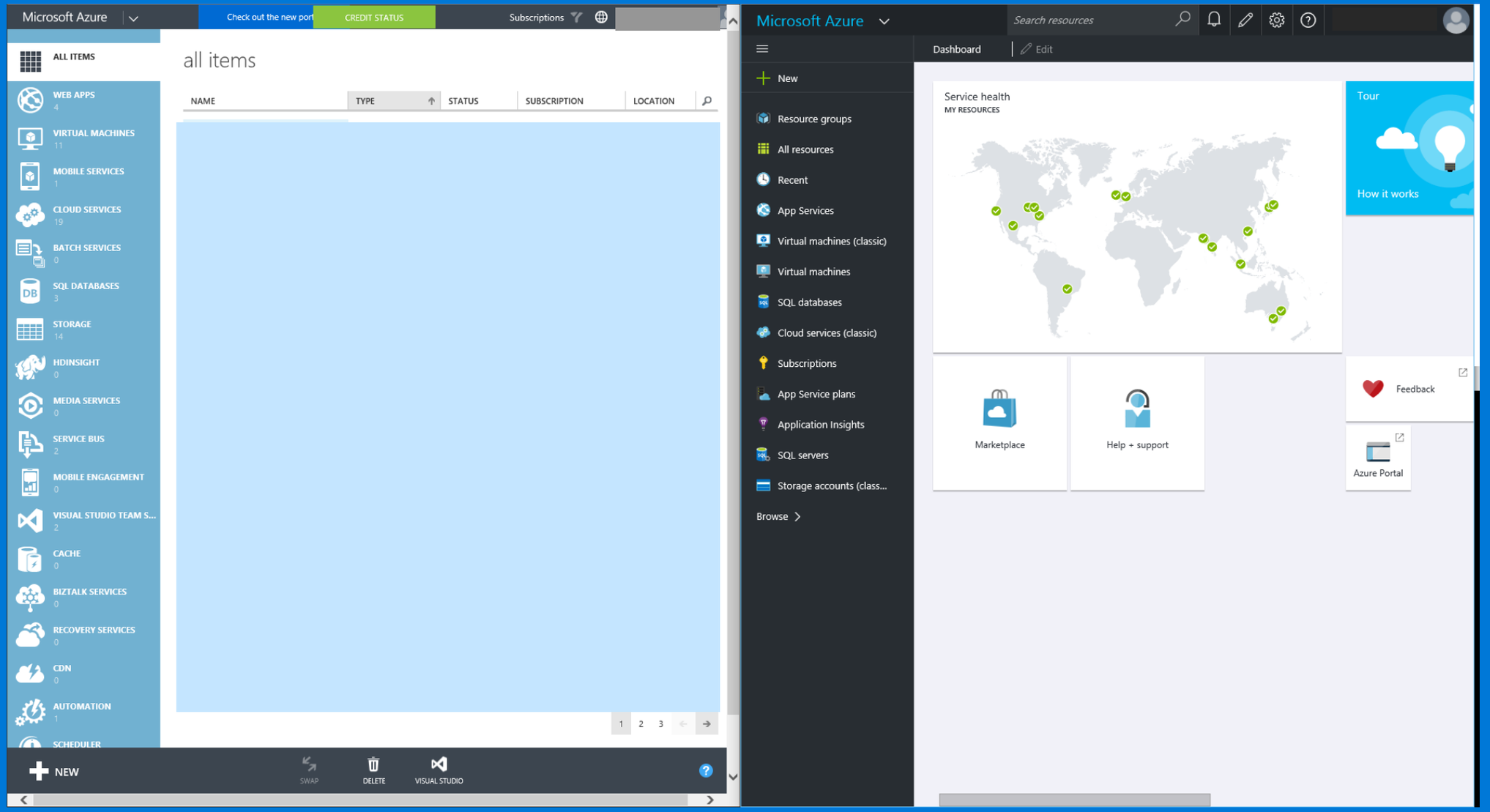
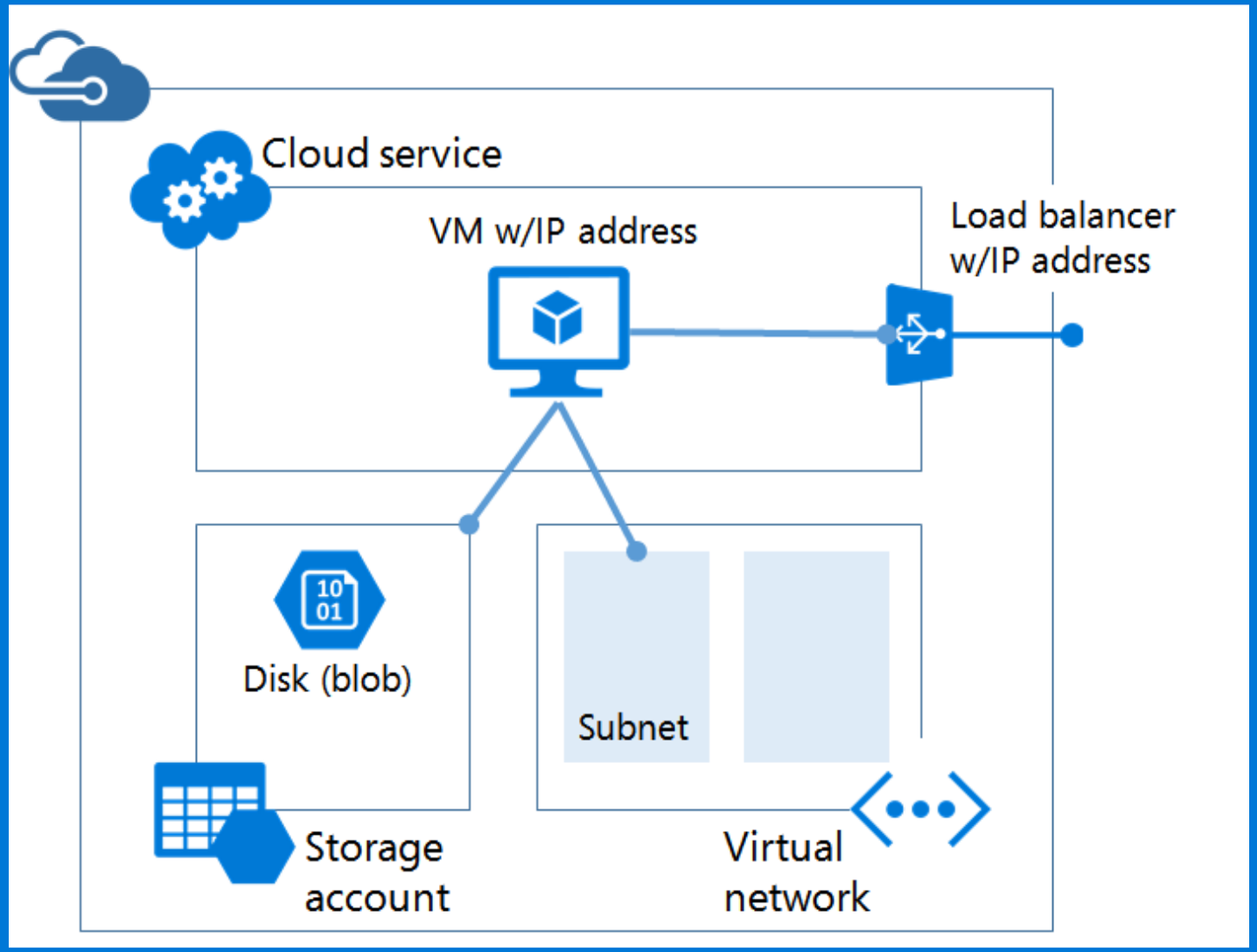

Platform Services
Security and Management
Portal
Active Directory
Multi-Factor Authentication
Automation
Key Vault
Store/ Marketplace
VM Image Gallery and VM Depot
Compute
Cloud Services
Service Fabric
Batch
Remote App
Web and mobile
Web Apps
API Apps
API Management
Mobile Apps
Logic Apps
Notification 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
Datacenter Infrastructure (24 regions, 19 online)

# A tale of two portals



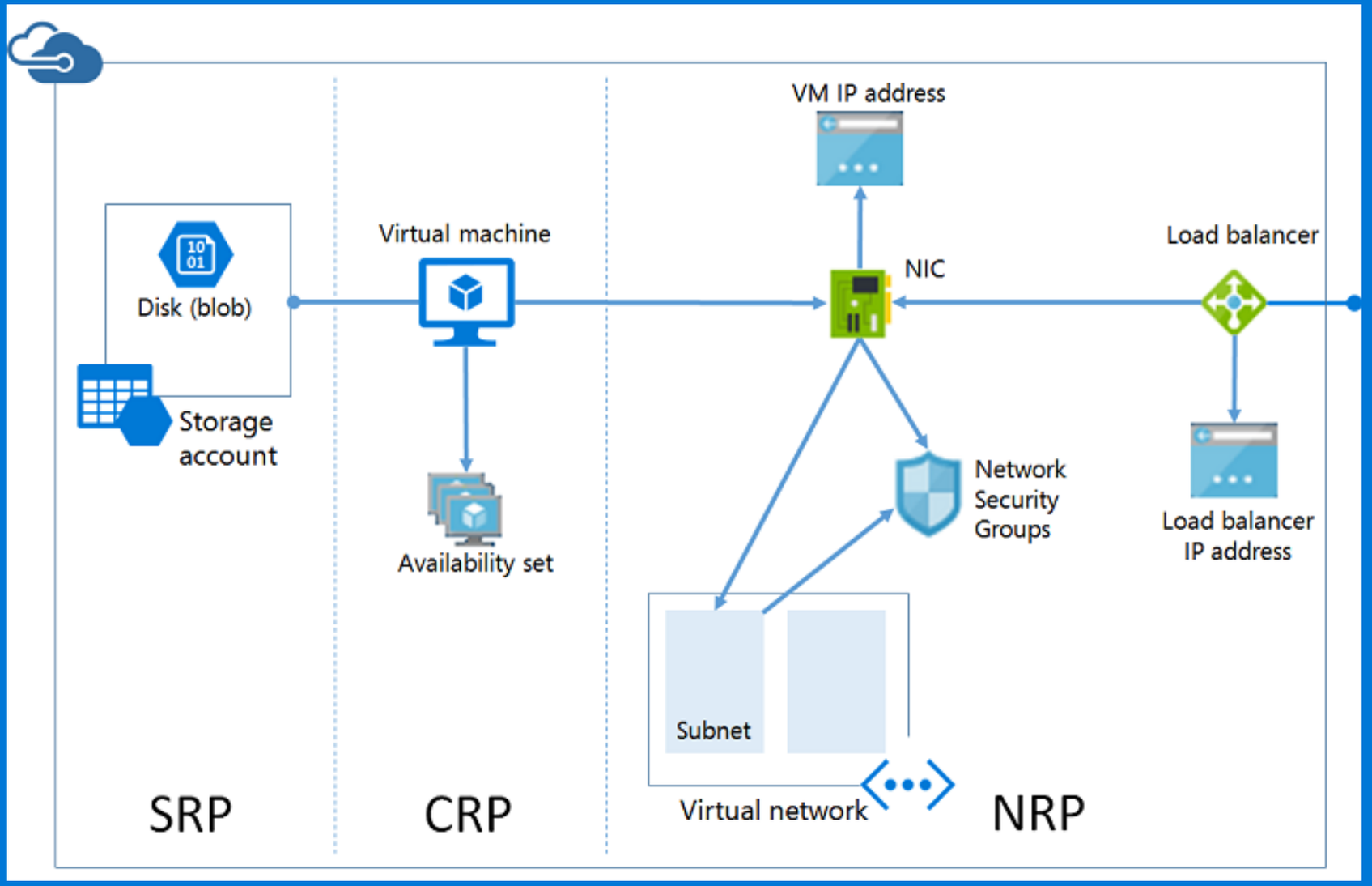

https://manage.windowsazure.com | https://portal.azure.com

# Azure Service Management Architecture




https://azure.microsoft.com/en-us/documentation/articles/virtual-machines-azure-resource-manager-architecture/

# Azure Resource Manager Architecture

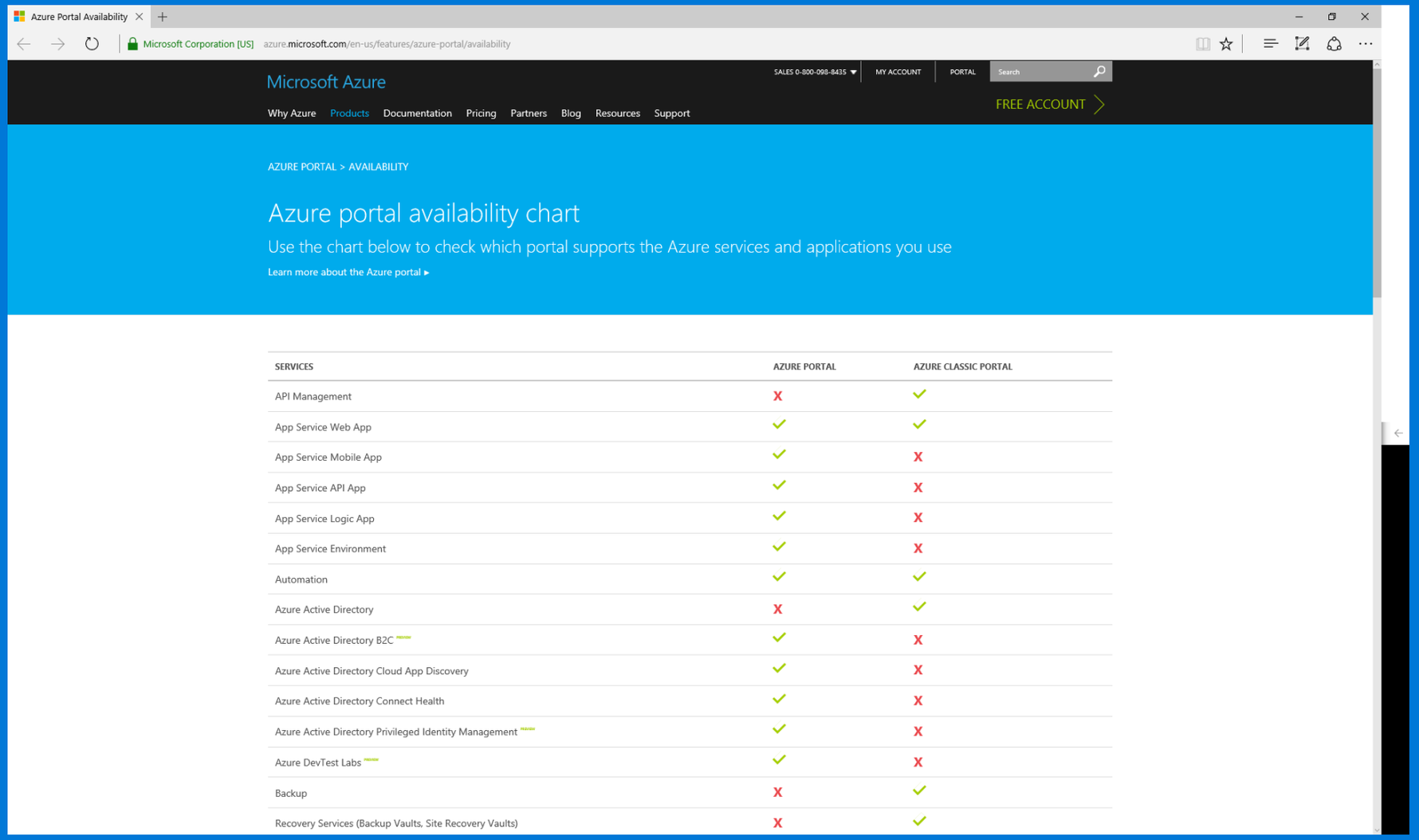



https://azure.microsoft.com/en-us/documentation/articles/virtual-machines-azure-resource-manager-architecture/

# Demo

Portals in action

# To help..

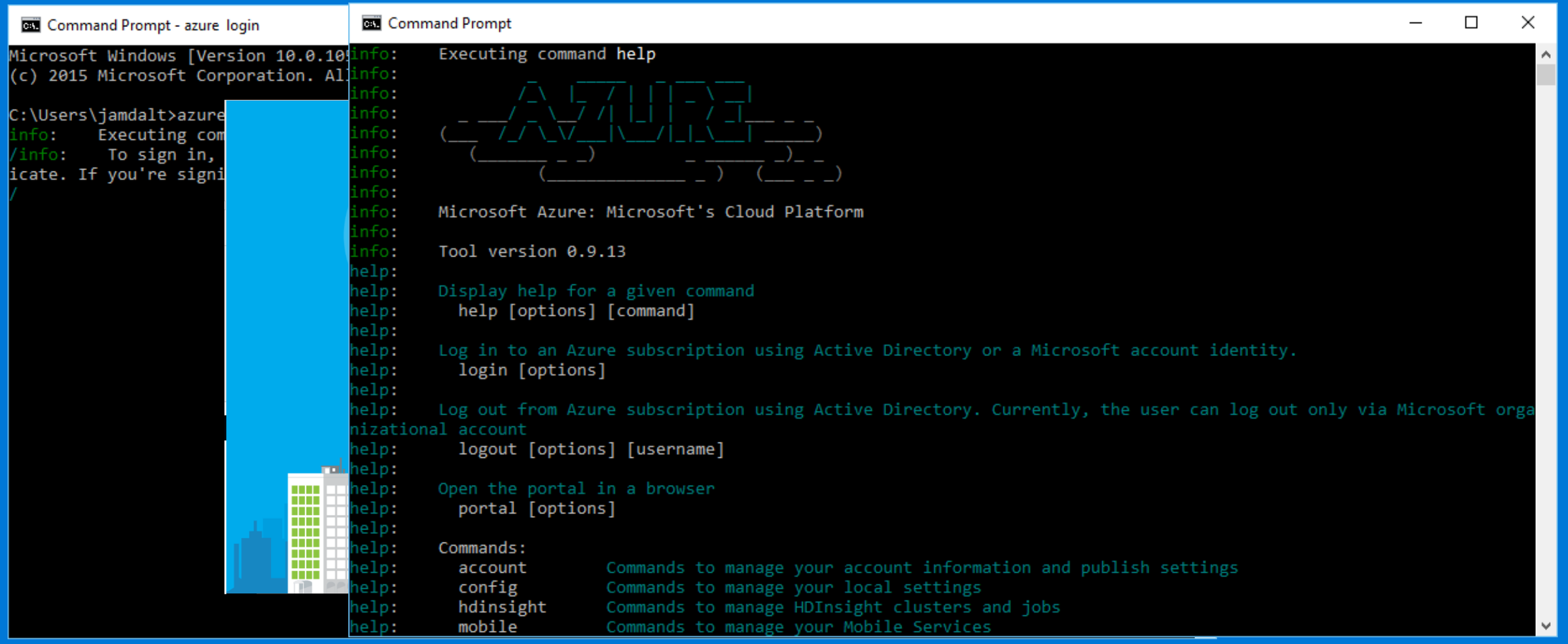



| SERVICES | AZURE PORTAL | AZURE CLASSIC PORTAL |
|---|---|---|
| API Management | X | ✓ |
| App Service Web App | ✓ | ✓ |
| App Service Mobile App | ✓ | X |
| App Service API App | ✓ | X |
| App Service Logic App | ✓ | X |
| App Service Environment | ✓ | X |
| Automation | ✓ | ✓ |
| Azure Active Directory | X | ✓ |
| Azure Active Directory B2C PREVIEW | ✓ | X |
| Azure Active Directory Cloud App Discovery | ✓ | X |
| Azure Active Directory Connect Health | ✓ | X |
| Azure Active Directory Privileged Identity Management PREVIEW | ✓ | X |
| Azure DevTest Labs PREVIEW | ✓ | X |
| Backup | X | ✓ |
| Recovery Services (Backup Vaults, Site Recovery Vaults) | X | ✓ |

https://azure.microsoft.com/en-us/features/azure-portal/availability/

# Make life easier..

## Install the Azure CLI



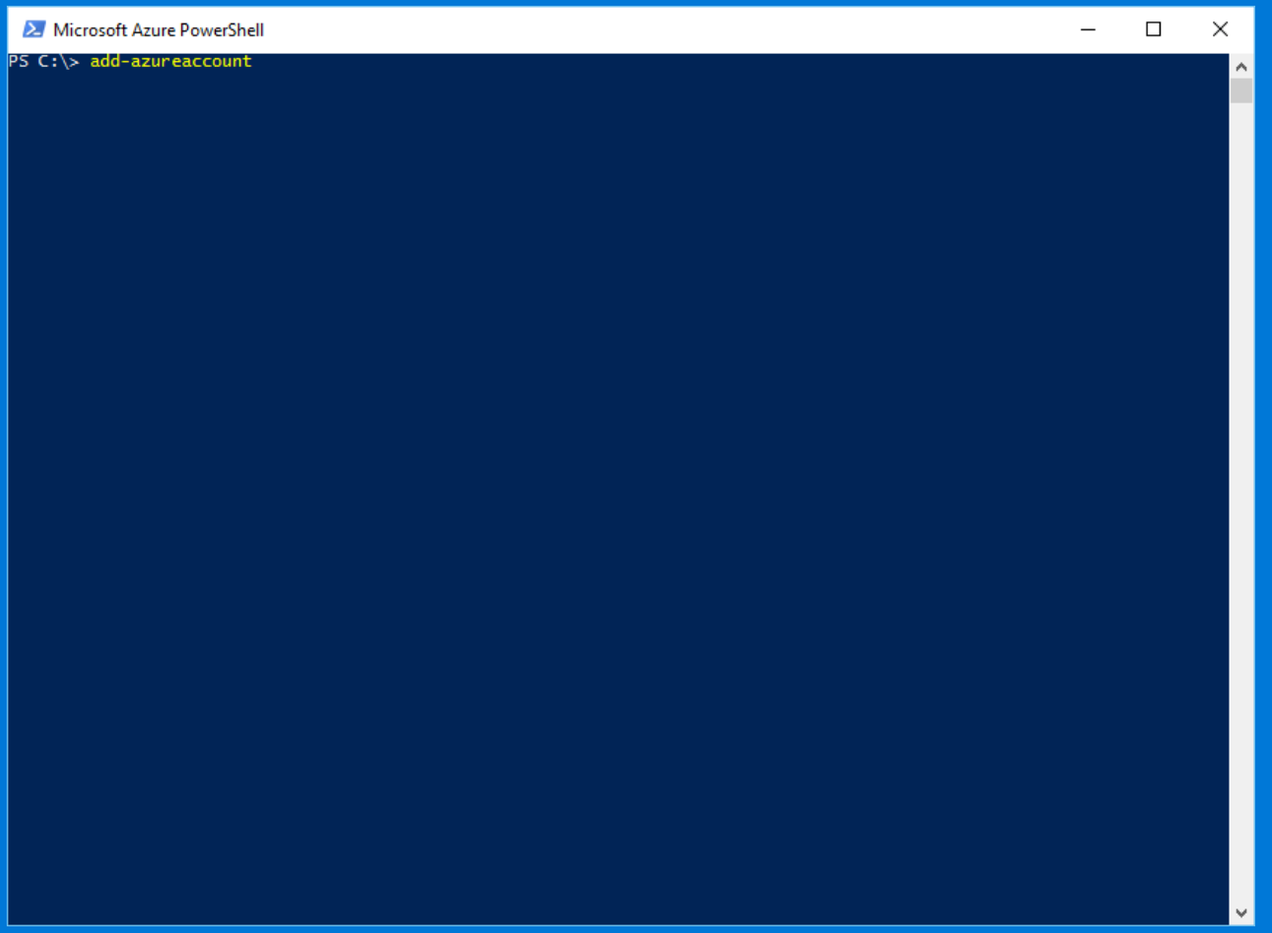

https://github.com/Azure/azure-xplat-cli

# Demo

Azure CLI

# Make life even easier..

## Install the Azure PowerShell cmdlets



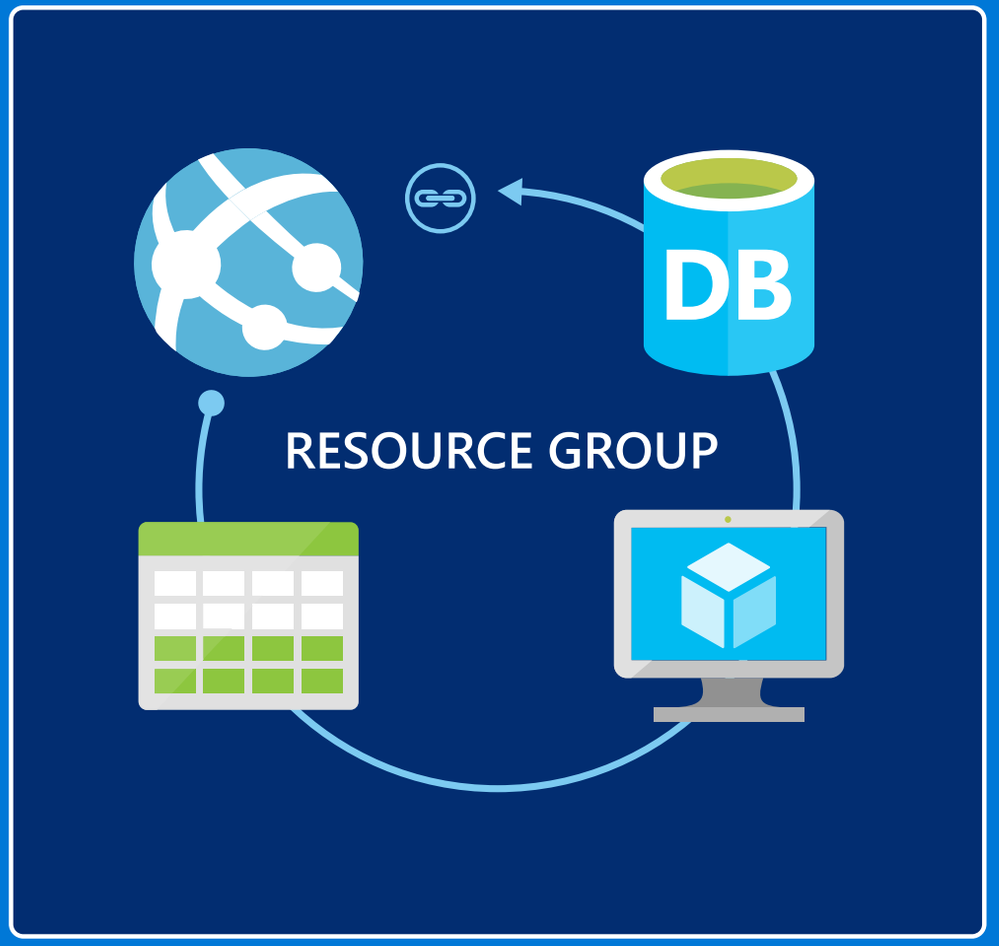

https://azure.microsoft.com/en-us/documentation/articles/powershell-install-configure/

# Demo

Azure PowerShell

# Do more with less hassle

## Azure Resource Manager




https://azure.microsoft.com/en-us/documentation/articles/resource-manager-deployment-model/

# Azure Resource Manager

## Resource Group

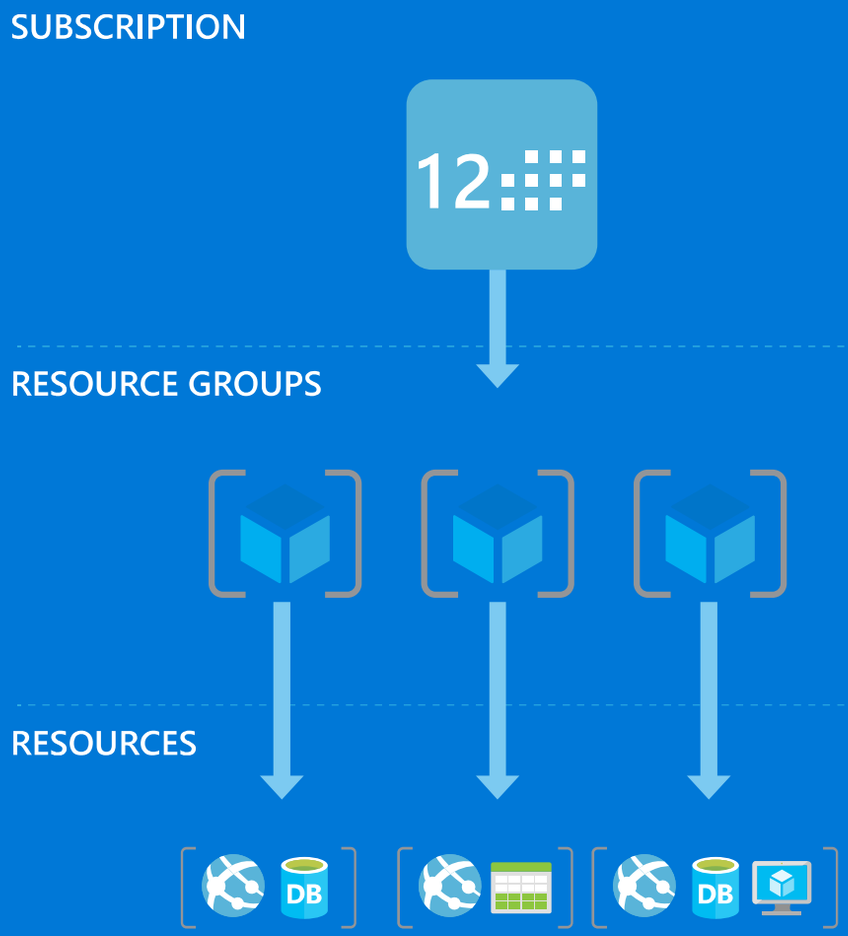
- container for multiple resources
- resources exist in only one resource group
- resource groups can span regions
- resource groups can span services

Azure Resource Manager

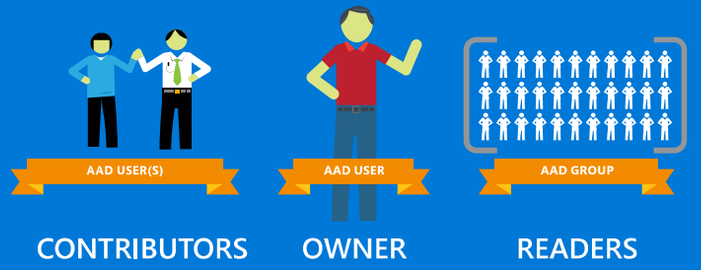
Resource Group: Management Container

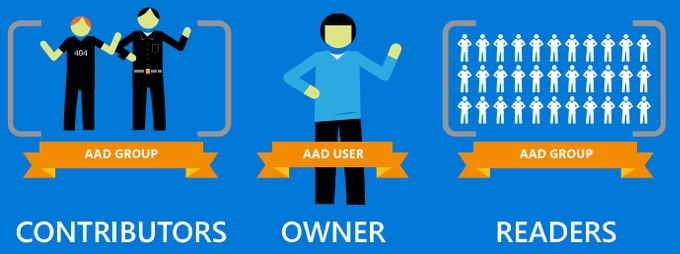
- Lifecycle: deployment, update, delete, status
- Grouping: metering, billing, quota, UX
- Access Control: scope for RBAC permissions
- Identity: resources can talk to each other

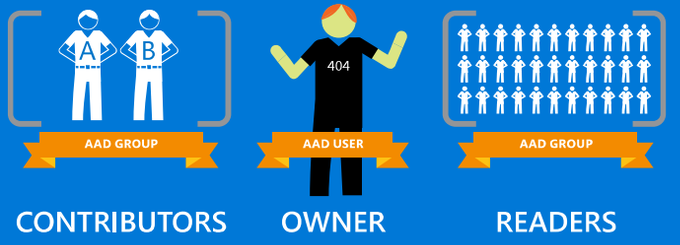
# Azure Resource Manager




ACCESS INHERITANCE




https://azure.microsoft.com/en-us/documentation/articles/role-based-access-control-configure/

# Azure Resource Manager

Name-value pairs assigned to resources or resource groups

Subscription-wide taxonomy

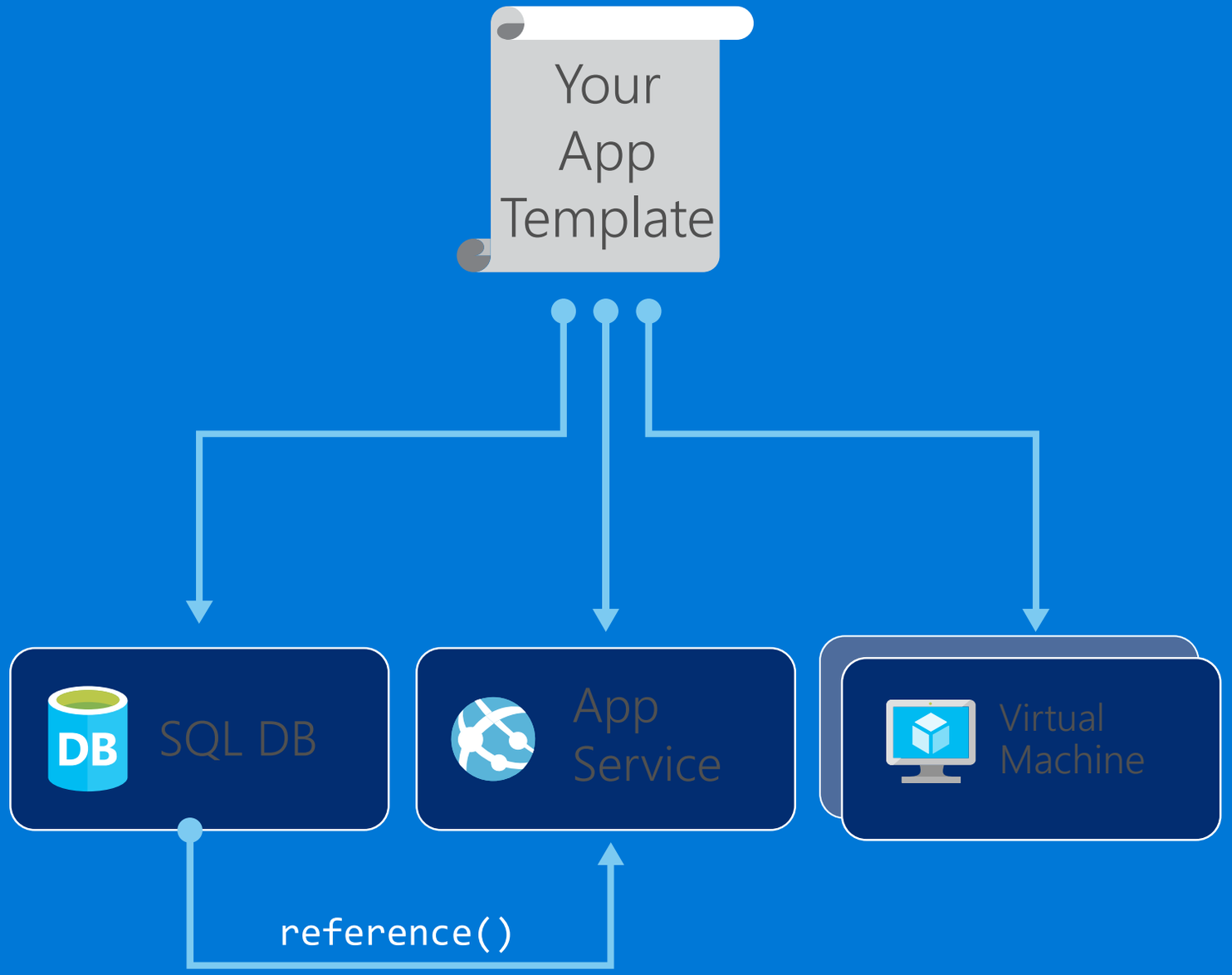
Each resource can have up to 15 tags

Azure Resource Manager

## Resource Templates

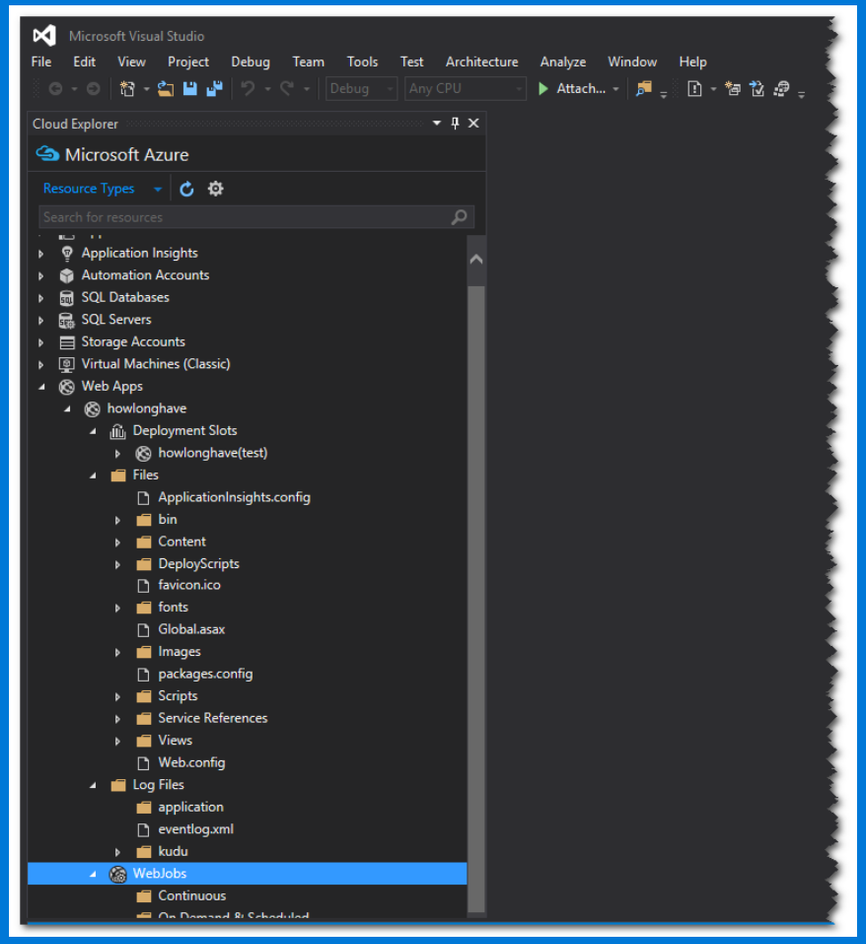
- Declarative, model based specification of resources and their configuration, code, and extensions
- Idempotent
- Consistent deployment
- Source file, checked-in
- Parameterized input/output

# Azure Resource Manager



# Authoring ARM templates

## Use Azure SDK for .NET 2.8.1



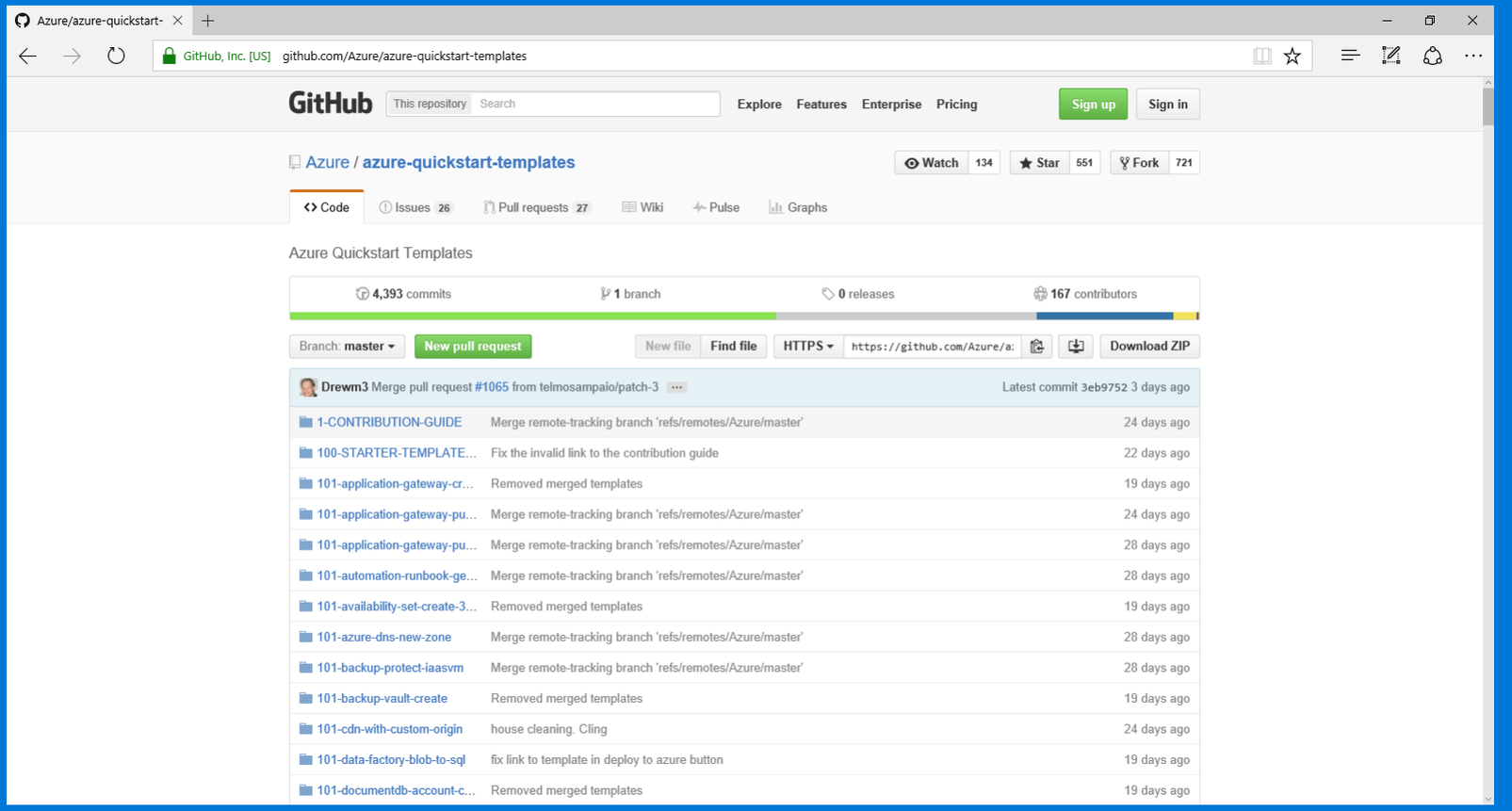

http://www.microsoft.com/en-us/download/details.aspx?id=50041

# Demo

Using ARM templates

# ARM made easy

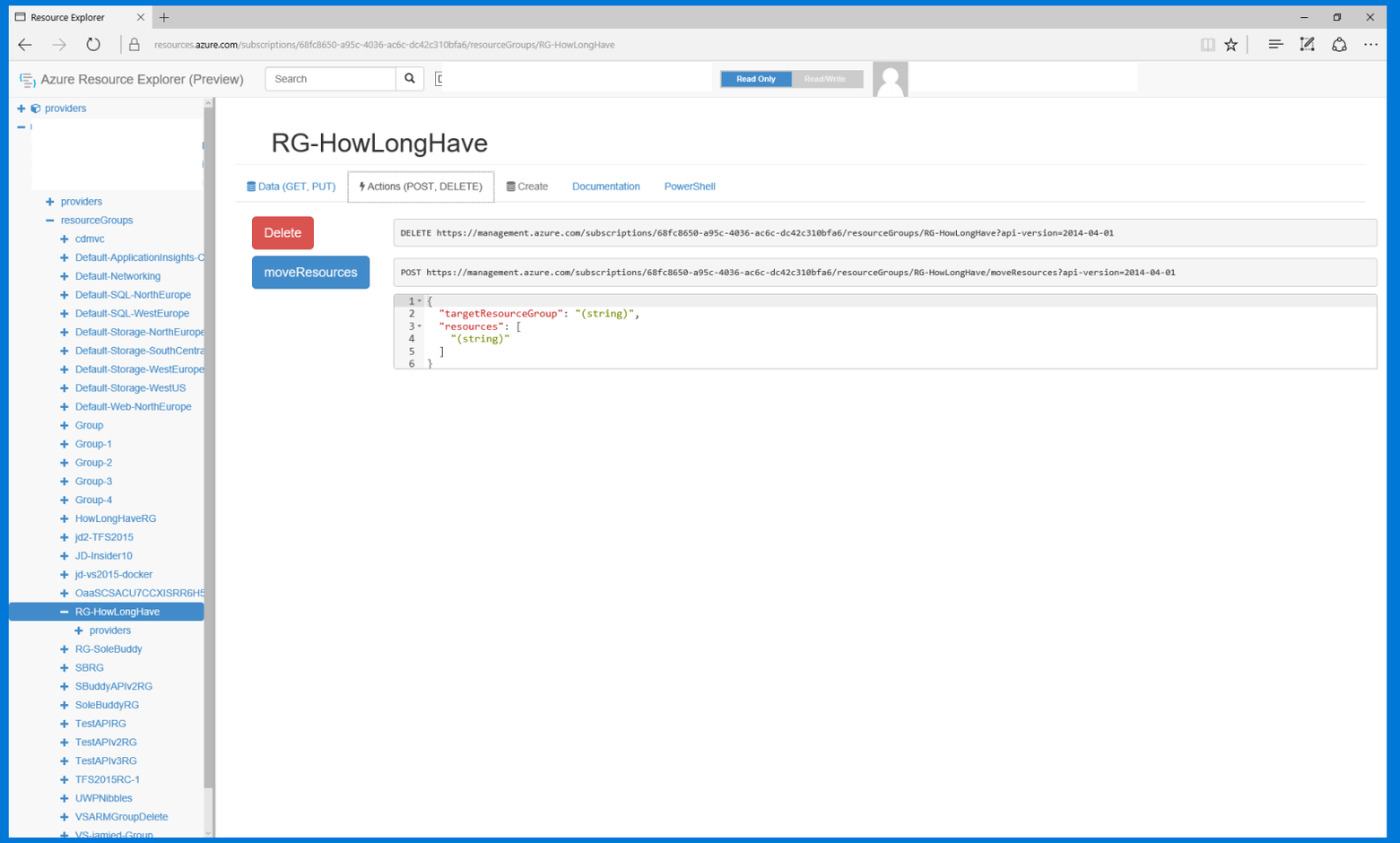
## Use Azure Resource Manager QuickStart Templates




https://github.com/Azure/azure-quickstart-templates

# To help..

## Azure Resource Explorer (Preview)



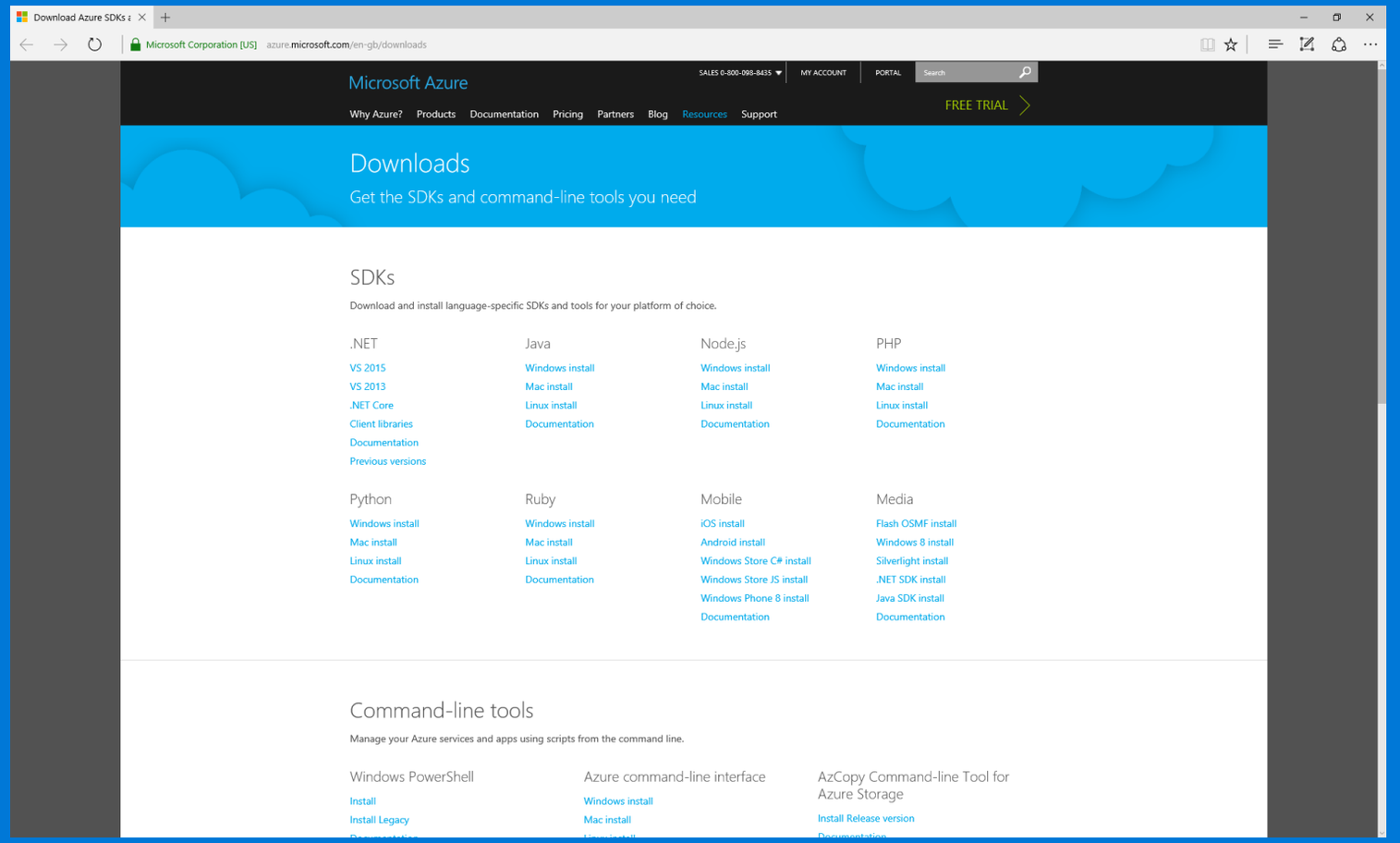

https://resources.azure.com/

# Demo

Using Azure Resource Explorer

# Summary

## Many ways to consume Azure




https://azure.microsoft.com/en-gb/downloads/

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