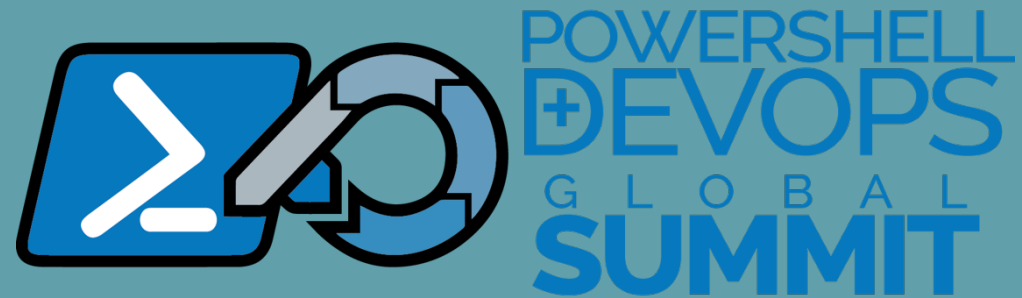




Mike F. Robbins
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Intro to Azure



April 8-11, 2024

Get-Help –Name 'about_Presenter'

- Mike F. Robbins
- Lead docs writer for Azure PowerShell at Microsoft



Cloud Computing

- Delivery of computing services—including servers, storage, databases, networking, software, analytics, and intelligence—over the internet (“the cloud”)
- Top Benefits
 - Cost-Effective
 - Global Scale
 - Performance
 - Security
 - Speed and Agility
 - Productivity
 - Reliability



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Deployment Models

- Public Cloud
 - Hardware, software, and infrastructure are owned by the cloud provider
- Private Cloud
 - Resources used exclusively by a single business or organization
- Hybrid Cloud
 - Combine public and private clouds

Types of Cloud Services

- IaaS (Infrastructure as a Service)
 - You rent IT infrastructure: servers, VMs, storage, networks, operating systems
- PaaS (Platform as a Service)
 - A complete cloud platform for developing and running applications without having to maintain the infrastructure
- SaaS (Software as a Service)
 - A complete, customer-facing application that runs in the Cloud

What is Azure?

- A cloud computing service created by Microsoft for:
 - Building
 - Testing
 - Deploying
 - And Managing
 - Applications and Services
 - Through Microsoft-managed data centers



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Key Azure Features

- Compute
 - VMs, container services, and service fabric
- Storage
 - Blob storage, disk storage, file storage
- Networking
 - Azure Virtual Network, VPN Gateway, Azure EpressRoute
- Databases
 - SQL, Cosmos DB, MySQL, etc
- AI and Machine Learning
 - Machine Learning, Cognitive Services, Bot Services, etc
- IoT (Internet of Things)
 - Connect, monitor and manage IoT assets
- DevOps
 - Tools to support the DevOps lifecycle like Azure DevOps and Azure DevTest Labs
- Security
 - \$1 billion investment per year in security to protect customers' data from cyber threats
- Compliance
 - 90+ compliance offerings– the most extensive portfolio in the industry



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Start-Process 'Demo'

- Demo Code: github.com/mikefrobbins/Presentations



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