Using ArcGIS for Server in the Microsoft Azure Cloud

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Agenda

• **ArcGIS on Azure**
  - What
  - Why
  - How

- When
What
“Tech Preview of ArcGIS on Azure now available”
blogs.esri.com
ideas.arcgis.com
GeoNet
Elevator Pitch

“A set of workflow driven scripts and help documentation to bootstrap your deployments of ArcGIS to the Microsoft Azure Cloud”
Workflows

- Create a VM Image
- Deploy a Site
- Register a Geodatabase
- Secure a Site
- Scale out for performance
- Backup a Site
Why
Benefits

Reduce IT costs
  No need to maintain hardware infrastructure
Flexible Capacity
  Scale based on demand
Speed and agility
Common Deployment Pattern

New Virtual Machine

Azure Management Portal

Remote Desktop
Common Deployment Pattern

Install Pre-Requisites

Install Software

License Software

Configure the Firewall
Common Deployment Pattern

Attach Storage Disks | Create Site | Enable EGDB | Upload Data | Publish Services
Common Deployment Pattern

Create the File Share

Set Permissions

Load Balanced Endpoints

Join Site
Challenges

Size of the Data
Latency of the Internet
Several Moving Parts
How
Getting Started

• Have an Azure Subscription
• Acquire ArcGIS Software and license file
  - My ESRI (Customer Care Portal)
• Download “ArcGIS for Azure Starter Package”
  - ideas.arcgis.com
• Install Software Pre-Requisites on client machine
  - Windows Azure PowerShell Commandlets
Create An Image

Azure Subscription
- Certificate

Media Locations
- Installer.exe
- license.prvc

Destination Image
- Label, Region
- Storage Account

Create-Image.bat

Saved in your Image Gallery
- ArcGIS Software
  - installed on OS Disk
  - licensed
Deploy A Site

Image Name
Site Information
• DNS Name
• Windows Admin Credentials
• Site Admin Credentials

`Deploy-Site.bat`

Server/Portal Site up and running at
• http://<dns>.cloudapp.net
Register an EGDB

Register-EGDB.bat

Database Information
- Server, Database (existing or new)
- Credentials

ArcGIS Server Site
- URL
- Site Admin Credentials

SQL Azure Server + Database
- Created if needed

Data Store
- Database enabled as an GeoDatabase
- Registered as Data Store Item
Publish your services
Demo

IF IT HAD A USER INTERFACE YOU WOULD SEE SOMETHING HERE... HERE...AND SOMETIMES HERE.
When
Today

• “ArcGIS for Azure” Starter Package
  • Create Image
  • Deploy Site
    - Single Node
  • Register EGDB
    - SQL Azure
10.3 Release

- Part of the Product

- Read more on the UC Q & A

- Functionality
  - Usability Enhancements
  - Portal and Server
  - Multiple nodes
  - Database Support
    - SQL Server on a VM
  - Security Configuration
  - Auto-scale Configuration
  - Backup workflows
In the meantime

- Out of band updates
- Delivered through ideas.arcgis.com
- Socialized through blogs, GeoNet
- Encourage you to participate and provide feedback
Takeaways

• **ArcGIS is Awesome, Azure is Awesome**

• **Automate, Automate, Automate**

• Just **A** start
# Resources

- **Where to get**

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<tr>
<td>ArcGIS Software and License</td>
<td>My Esri</td>
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- **Me**

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Tips & Tricks

• Azure Files
  - SMB as a service

• File Share in the Azure cloud

• Read More on the Azure blog.
Thank you...

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Online – www.esri.com/ucsessionssurveys