

Agenda

- Overview of the US Government Cloud
- Commercial / US Government Comparison
- Selecting a Cloud and the Trust Center
- Azure Blueprints
- Connecting to the US Government Cloud
- Marketplace Considerations
- Azure Active Directory Considerations
- About the Feature Roadmap
- Useful Links



What is the US Government Cloud? "A government-community cloud you can trust, with world-class security and compliance, enabling U.S. government and their partners to transform their mission-critical workloads to the cloud." Hybrid flexibility Engineered for flexibility and consistency across public, private, and hosted clouds Comprehensive compliance The most certifications of any cloud provider to simplify critical government compliance requirements Superior protection Hardened US datacenters, including East coast, with 500-mile georedundancy, operated by screened US persons Government only Unique cloud instance, exclusively for government customers and their solution providers

Unique Properties of the US Government Cloud

- Physically isolated instance of Microsoft Azure
- Employs world-class security and compliance services critical to U.S. government for all systems and applications built on its architecture
 - \bullet FedRAMP and DoD compliance certifications
 - CJIS state-level attestations
 - Ability to issue HIPAA Business Associate Agreements
 - Support for IRS 1075
- Operated by screened U.S. citizens

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Azure DoD/Government Regions



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E y communication (ii any)
d Requires approval from Microsoft
65 & 3rd party SaaS Isolated, no integration



Selecting a Cloud: Why the Government Cloud?

"I'm a Government Entity so obviously, MAG is the way to go!"

- This is inappropriate thinking
- Microsoft Azure Government...
- · Is more expensive due to extra certification requirements and overhead
- Is slower to gain features due to certification timelines
- Microsoft Azure Commercial...
 - Meets FedRAMP Moderate and many other certifications
 - · Has same physical security
- Very common for Government customers to have both MAG and MAC subscriptions
- To compare services available, see https://azure.microsoft.com/en-us/regions/services/



Comparison Point	Microsoft Azure Commercial (MAC)	Microsoft Azure Government (MAG)
FedRAMP	Moderate	High
US Department of Defense	Level 2 (specific services)	Level 4 (specific services) Level 5 (specific services in DoD regions)
CJIS	N/A	Attestation by State
FIPS 140-2	•	•
ITAR	N/A	•
NIST 800-171	•	•
IRS 1075	N/A	•
HIPAA / HITECH	•	•
MARS-E	•	•
Section 508	•	•
HITRUST	•	N/A
FERPA	•	N/A
FDA CFR Title 21 Part 11	•	N/A
PCI DSS 3.2 SP L1	•	N/A

The Microsoft Trust Center

The Microsoft Trust Center offers detailed security, privacy, and compliance information for all Microsoft cloud services.

Obtain targeted information based on your role in the organization

- Review by job role
- Review by product/service
- Review by cloud

https://www.microsoft.com/en-us/trustcenter

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The Microsoft Trust Center

Scope & filter Microsoft's compliance offerings based on Region, Country, Industry, and Product/Service

Easily determine which Cloud service is best suited for a particular workload

https://www.microsoft.com/enus/trustcenter/compliance/complianceofferings







Azure Blueprints

- Purpose
 - Facilitate the secure and compliant use of Azure for government
 - Leverage Azure's FedRAMP JAB Provisional Authority to Operate (P-ATO) or DoD Provisional Authorization (PA)
 - \bullet Reduce the scope of customer-responsibility security controls in Azure-based systems
- Customer Responsibilities Matrix (CRM)
- Lists all NIST SP 800-53 security control requirements for FedRAMP and DISA baselines
- System Security Plan (SSP)
 - Documents both customer security control implementations as well as controls inherited from
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Azure Blueprints – Customer Responsibilities Matrix (CRM)

Lists all NIST SP 800-53 security control requirements for FedRAMP and DISA baselines

(example of FedRamp Moderate for laaS)

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Azure Blueprints - System Security Plan (SSP)

 Documents both customer security control implementations as well as controls inherited from Azure (example of FedRamp Moderate)



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- High-level discussion: https://docs.microsoft.com/en-us/azure-
- Download the blueprints https://servicetrust.microsoft.com/ViewPage/BlueprintOverview



Portal	MAC URL	MAG URL			
Classic Management	https://manage.windowsazure.com	https://manage.windowsazure.us			
ARM Management	https://portal.azure.com	https://portal.azure.us			
nterprise Agreement (EA)	https://ea.azure.com				
Account Management	https://account.windowsazure.com	https://account.windowsazure.us			
Operations Management Suite (OMS)	https://mms.microsoft.com	https://oms.microsoft.us			
See https://docs.microsoft.com/en-us/azure/azure-government/documentation-government-services					

Service			
Azure ARM	Add-AzureRmAccount -EnvironmentName AzureUSGovernment		
Azure ASM	Add-AzureAccount -Environment AzureUSGovernment		
AzureAD ARM	Connect-AzureAD -AzureEnvironmentName AzureUSGovernment		
AzureAD ASM	Connect-MsolService - Azure Environment Us Government		
Azure CLI	azure login -environment "AzureUSGovernment"	_	
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Connecting	with \	/isual	Studio	2015
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- \bullet Hardcode the Azure Government endpoints with a registry key
 - $\bullet\,$ Visual Studio can only be used for Azure Government deployments from then on
- \bullet Reset the registry key to return connectivity to Commercial endpoints
- Visual Studio can only be used for Azure Commercial deployments from then on
- https://docs.microsoft.com/en-us/azure/azure-government/documentationgovernment-get-started-connect-with-vs#visual-studio-2015

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Connecting with Visual Studio 2017

- Hardcode the Azure Government endpoints with a configuration file located in a specific folder
 - Visual Studio can only be used for Azure Government deployments from then on
- Rename or delete the folder to return connectivity to Commercial endpoints
 - Visual Studio can only be used for Azure Commercial deployments from then on
- https://docs.microsoft.com/en-us/azure/azure-government/documentation-government-get-started-connect-with-vs#visual-studio-2017

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Marketplace Considerations

- Similar experience to public Azure portal
- Only BYOL images available (cannot bill through the Marketplace)
- Only a subset of images are available
- \bullet If in an Enterprise Agreement, Marketplace must be enabled in the EA Portal

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Bringing Commercial to MAG

How quickly do you need it?

- Immediate need
 - Deploy into an Azure Commercial subscription with same environment setup as intended Government environment (i.e. Network)
 - Copy the VHDs to Azure Government subscription and re-deploy
 - \bullet Warning: Offerings not certified for Azure Government may not work or be supported
 - $\bullet\,$ The vendor can also privately grant access to the solution through alternate means
- Wait and Certify
 - $\bullet\,$ Ask the vendor to follow the publishing guidelines for Azure Government Marketplace
 - This ensures the offering meets the standards for the Marketplace. (Support, Compatibility, etc)



Office 365 Government vs Azure Government					
Azure AD Commercial	•	Azure SaaS Public Office 365 cloud Government			
Microsoft Azure Active Directory		Cloud			
Azure AD Government	·······	Azure Government Cloud			
Microsoft Azure Active Directory	Microsoft Confidential				

Azure AD Commercial vs Azure AD Government

- Completely independent instances of the Azure AD (AAD) service
- An on-premises identity can only be synced to 1 AAD tenant (i.e. John@contoso.com)
 - It is <u>unsupported</u> to sync the same identity to more than 1 AAD tenant
 - Workaround: Create a new on-premises identity for the other AAD tenant
- AAD Commercial works with O365 Commercial/Government, $3^{\rm rd}$ party SaaS, and identity enhancement services
 - Enterprise Mobility and Security (EMS), AAD Premium, Identity Protection, Privileged Identity Management
- AAD Government only integrates with AAD Application Proxy (publishing on-premises web/thick solutions)
 - AAD Premium (est. June 2017)



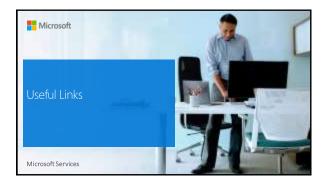
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- The Azure Government team has a product roadmap
- · Generally updated monthly
- Includes what's live and what's coming
- Includes anticipated timeframes
- Includes compliance offering expectations (e. g. CJIS state-by-state information)
- Often issued in PowerPoint and Word forms
- Covered under the NDA between the customer and Microsoft

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How to Get It

Available via your Microsoft account team



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- $\bullet \ \, \text{Azure Government Blog} \underline{\text{https://blogs.msdn.microsoft.com/azuregov/}}\\$
 - $\bullet\,$ Announces new feature releases and blogs specific to working with MAG
- $\hbox{-} \ \, Azure\ \, Government\ \, Documentation\ \, \hbox{-}\ \, \underline{https://docs.microsoft.com/en-us/azure/azure-government/}$
 - Includes feature availability and details on difference between MAC and MAG versions of the
 offering
- Features Available Region https://azure.microsoft.com/en-us/regions/services/
 - "Get-AzureRMLocation" in Powershell to see a real-time listing of VM sizes, storage, etc. available in each region

