

Global Azure Bootcamp 2019

Azure Governance & Security Hardening

Agenda

- Management Groups how to better structure your tenant.
 - DEMO –Management Groups.
- Azure Policy enforce resource compliance.
 - ▶ DEMO Azure Policy.
- Azure Blueprints compliance at scale.
- Azure Key Vault SSL Certificate management.
 - DEMO Key Vault & SSL certificates.
- Azure Key Vault Credentials & Encryption keys management.
 - DEMO VM, SQL and Storage Account BYOK encryption.
 - DEMO Azure Policy Compliance Monitoring.
- Questions.

About Me

- Fabien Gilbert fabien.gilbert@appliedis.com
- 12+ years in IT Consulting in France and in the US.
- Currently Cloud Infrastructure Consultant with AIS.
- Help clients on their journey to the Cloud.





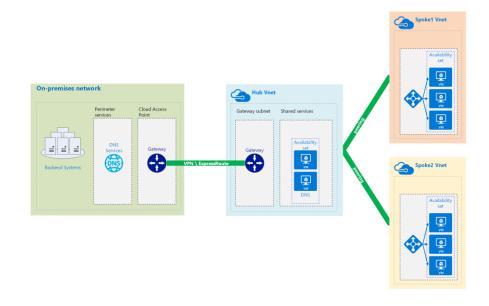






Nice-to-haves

- Familiarity with Hub & Spoke Topology.
- Experience with Role Based Access Control.
- Understanding on Identity & Access Management
- PowerShell scripting experience.



Azure tools for IT Governance





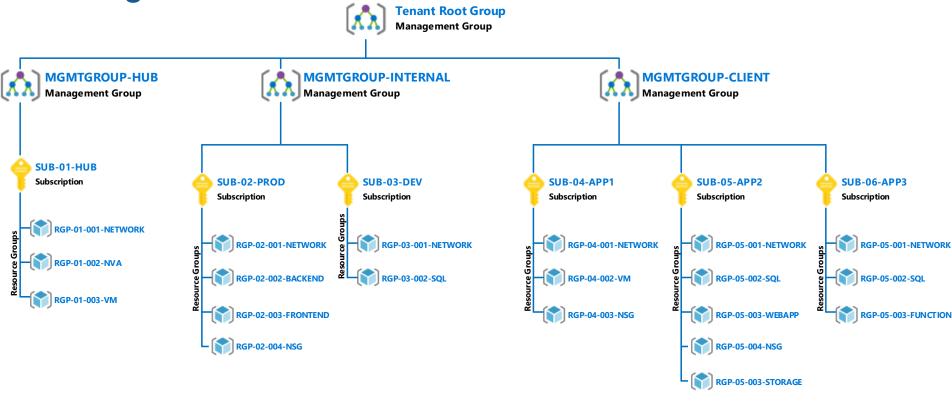
Management Groups



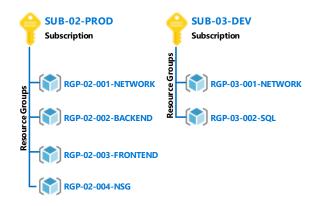


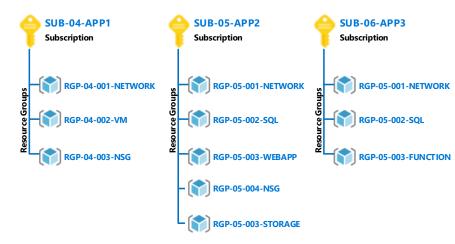
Blueprints



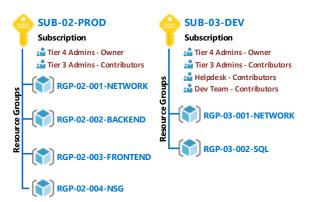


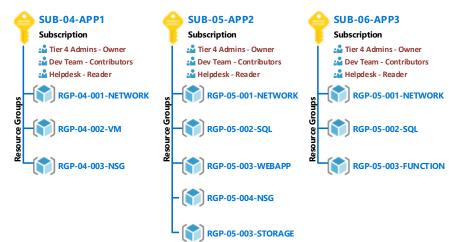


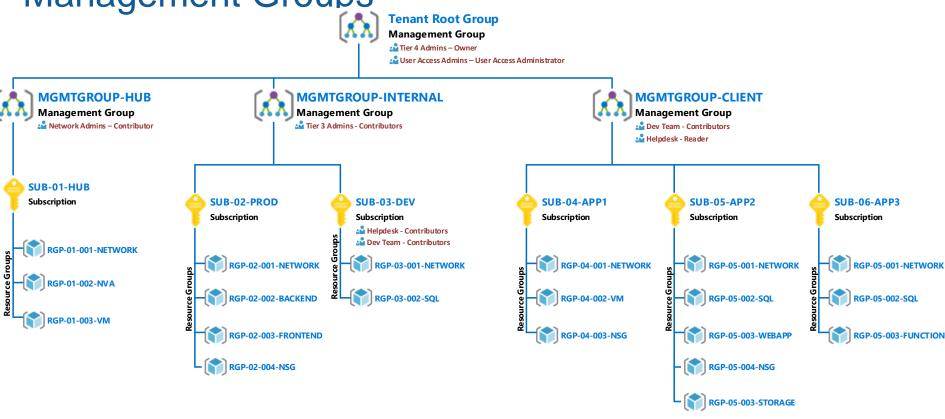










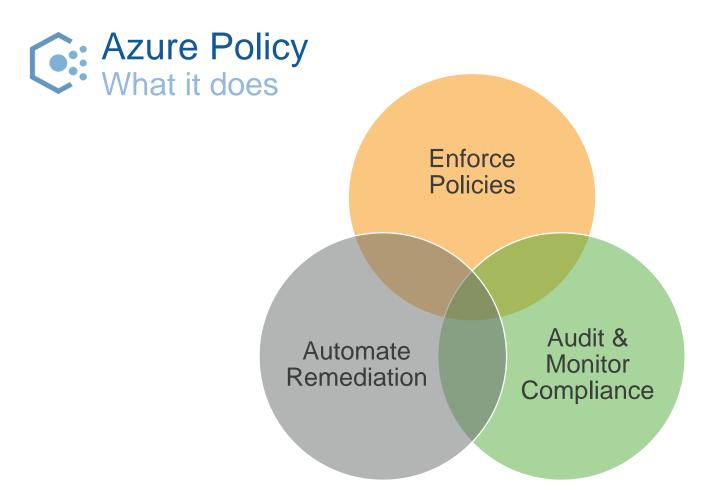


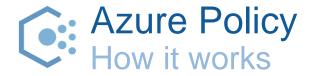


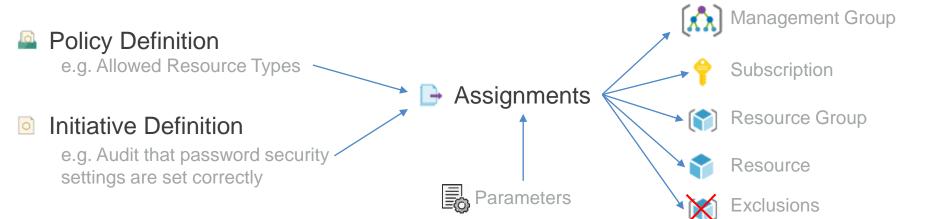
- Management Groups in the Portal.
- Management Group script creation.
- Management Group child subscription assignment.
- Management Group Role Assigments.



https://github.com/FabienGilbert/AzureBootcamp





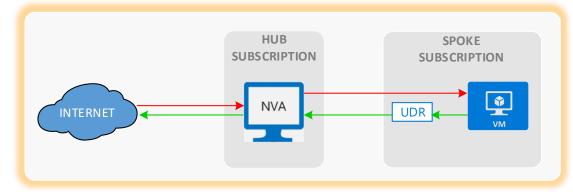




Enforce geographic boundaries



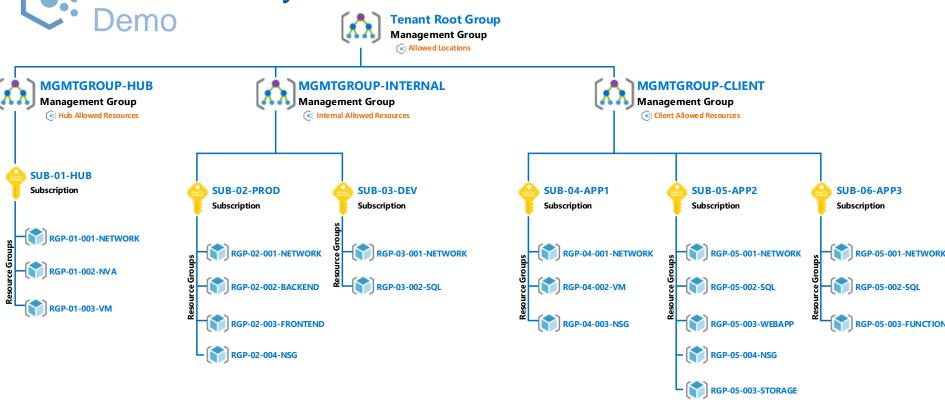
Enforce network boundaries



Prevent cost overruns





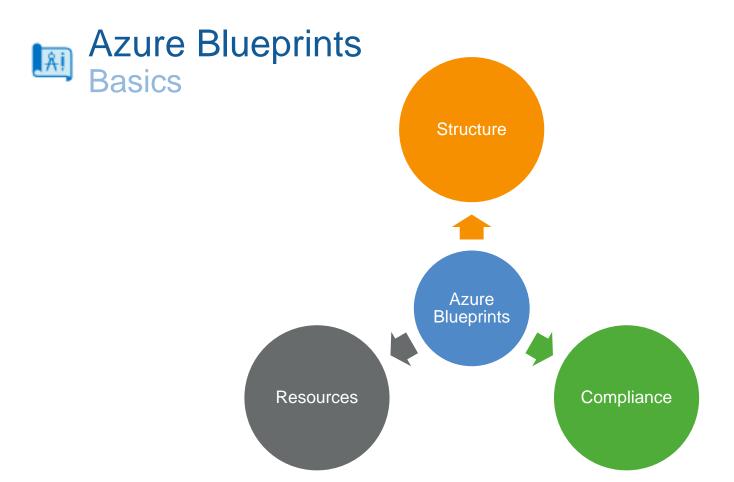




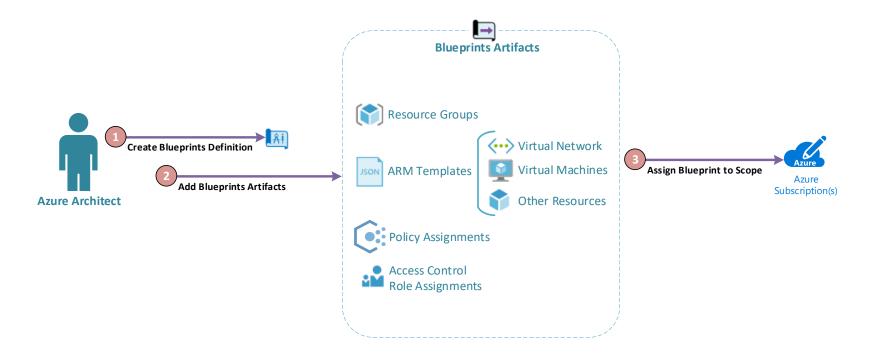
- Policy management in the portal.
- Policy assignment script.
- Policy-restricted resource creation.

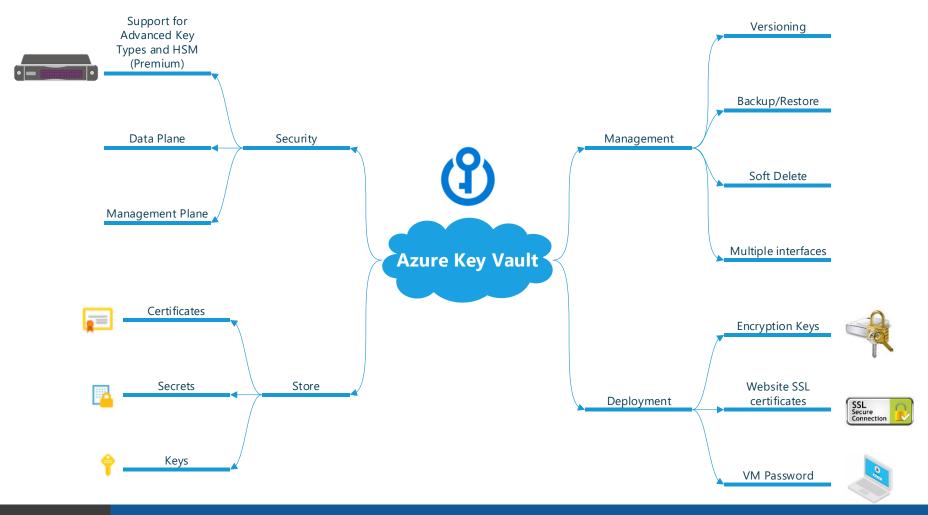


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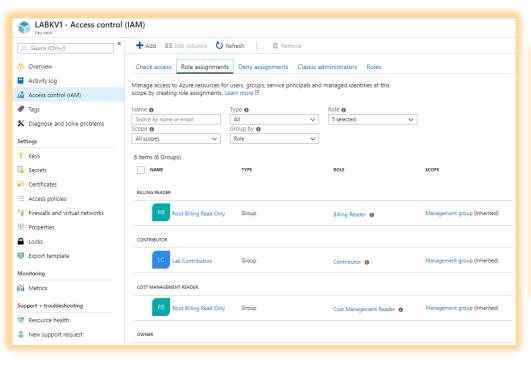


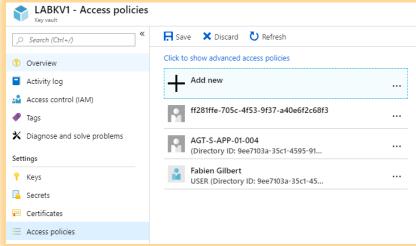
Azure Blueprints How it works





Azure Key Vault Management Plane & Data Plane





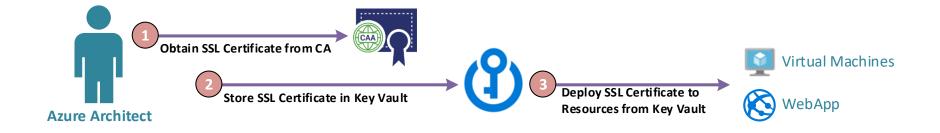
Azure Key Vault Demo

- Key Vault ARM template creation.
- Key Vault SSL Certificate generation.
- BYOK Encrypted Storage Account.
- Key Vault Secrets for admin logins.
- VM deployment with Disk Encryption.
- Key Vault SSL Certificate deployment to VM.
- Azure Policy Compliance.

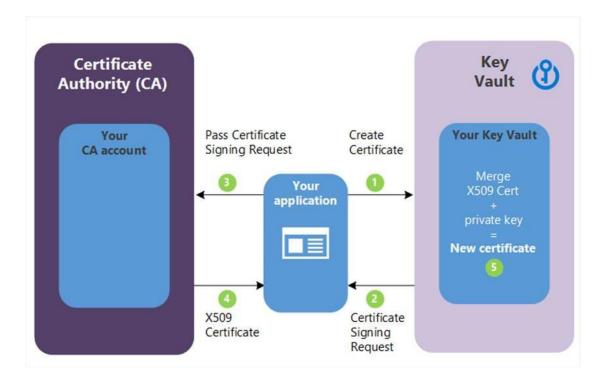


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Azure Key Vault Key Vault SSL Certificate Management



Azure Key Vault SSL Certificate Generation





Thank You