

Azure Policy and Azure DevOps

Better together?!

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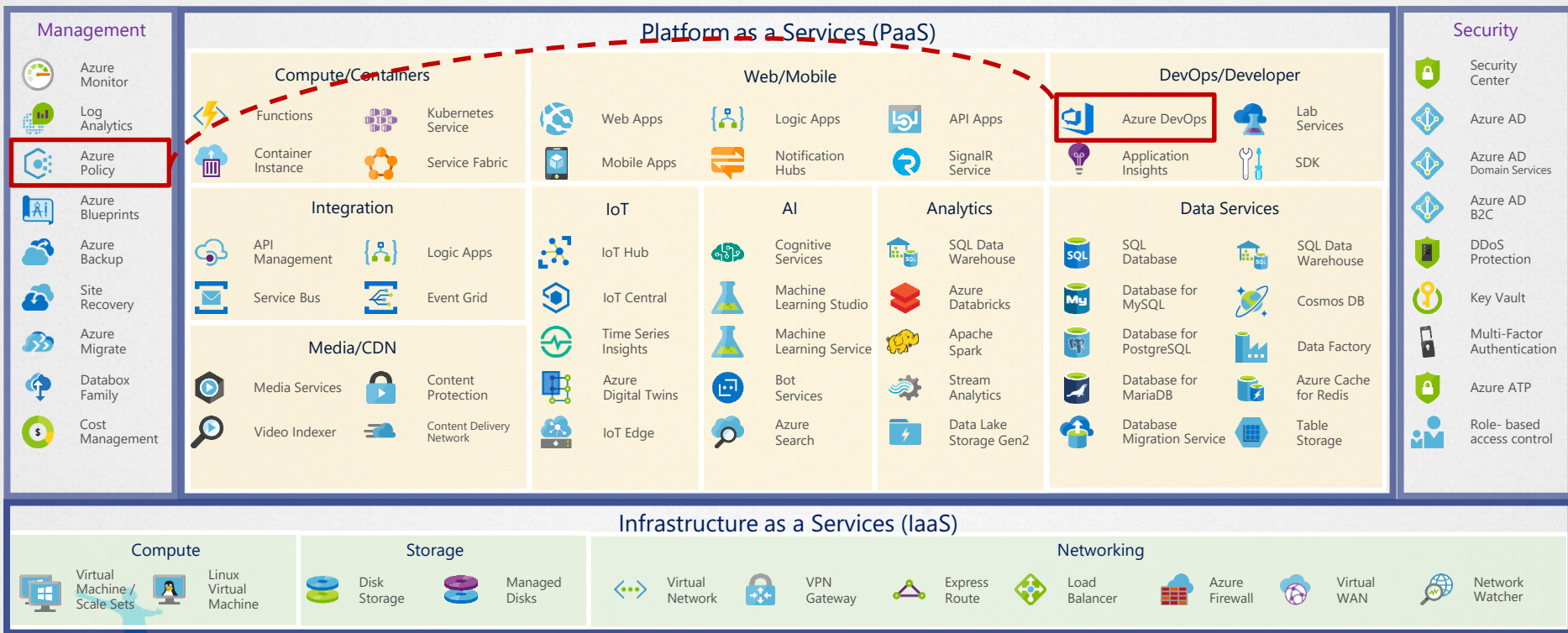


Agenda

- Azure Governance Recap
- Azure Policy Overview
- Azure DevOps Overview
- Policy & DevOps
 - Template Validation Pipeline
 - Pre- and Post-Deployment Tasks
 - Policy as Code
 - Policy Deployment



Azure Services Overview



Azure Datacenter Infrastructure



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Cloud Governance - Definition

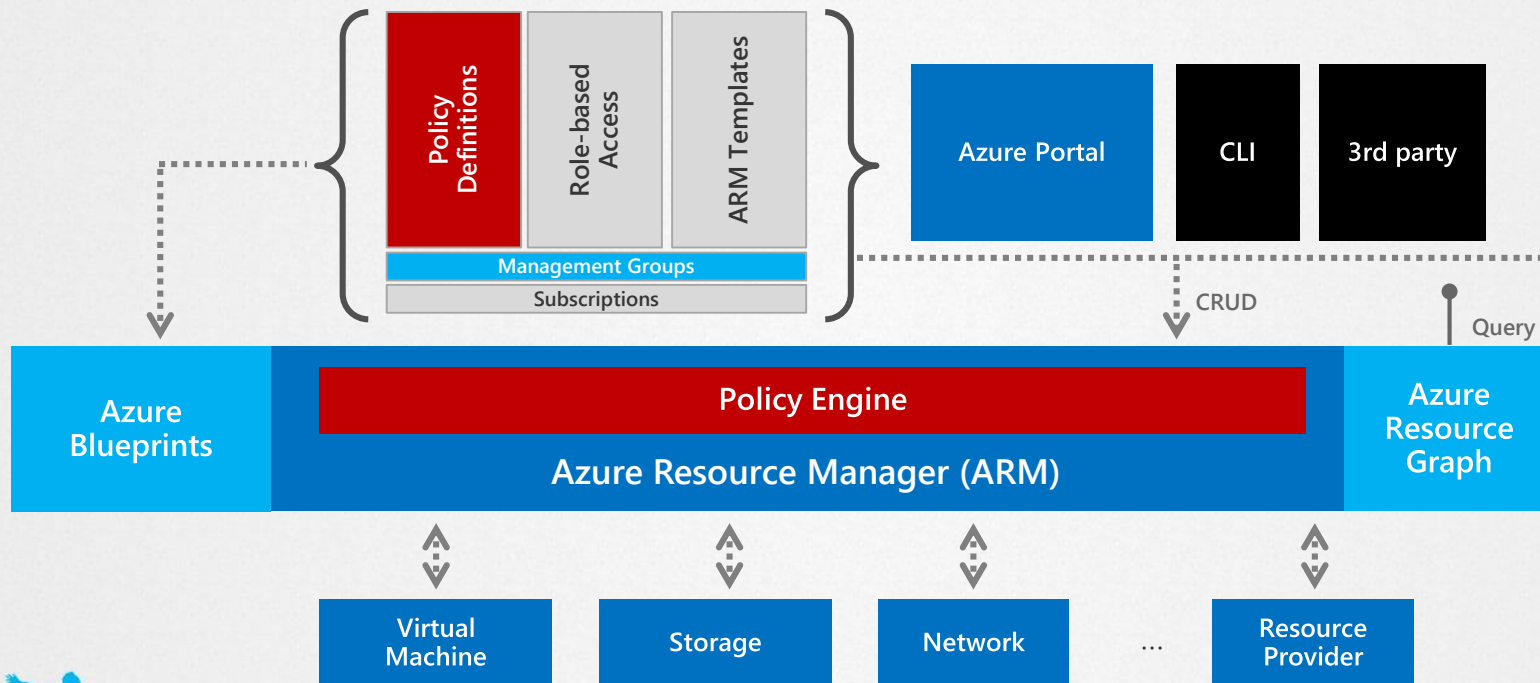


***ESTABLISHMENT of POLICIES, and
continuous MONITORING of their proper
IMPLEMENTATION, by the members of
the governing body of an organization. [...]***





Azure Governance Architecture





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Resource Policies

- Set on Management Groups, Subscriptions or RGs
- Policy is the „Allow“ or „Define“ System
- Works with if-then conditions
- Created via JSON

Actions:

- Append
- Audit
- AuditIfNotExists
- Deny
- DeployIfNotExists
- Disabled
- Modify

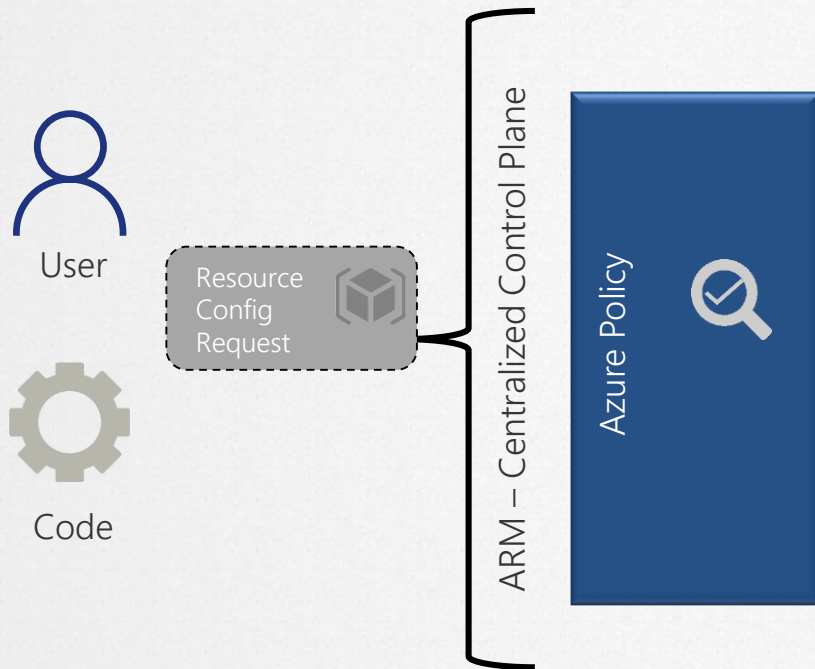


The screenshot shows the 'Policy | Definitions' page in the Azure portal. The left sidebar contains a navigation menu with the following items: Overview, Getting started, Compliance, Remediation, Authoring (with sub-items: Assignments, Definitions, Exemptions), and Related Services (with sub-items: Blueprints (preview), Resource Graph, and User privacy). The 'Definitions' item is currently selected. The main content area has a search bar and a toolbar with '+ Policy definition', '+ Initiative definition', 'Export definitions', and 'Refresh'. Below the toolbar, there is a 'Scope' section showing '3 selected' and a dropdown menu. A purple banner message states: 'Now export your definitions and assignments to GitHub and manage them using actions!'. A table of policy definitions is displayed with the following entries:


Name
Azure Cosmos DB allowed locations
[Preview]: Storage account public access should be disallowed
Not allowed resource types
Allowed storage account SKUs
Allowed resource types
Allowed virtual machine size SKUs
Allowed locations
Allowed locations for resource groups



How does the processing work?



Order of evaluation

- Cloud Resource 
1. Disabled
 2. Append / Modify
 3. Deny
 4. Audit





How does the processing work?



4. DeployIfNotExists
5. AuditIfNotExists





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Deliver with Azure DevOps



Azure Boards



Azure Repos



Azure Pipelines



Azure Artifacts



Azure Test Plans





Azure DevOps Pricing



Open Source Projects

- **Azure Pipelines**
 - 10 free parallel jobs with unlimited minutes
 - 1 Microsoft-hosted job up to 1800 minutes
 - 1 self-hosted job unlimited time
- **Azure Boards**
 - Work item tracking and Kanban boards
- **Azure Repos**
 - Unlimited private Git repos
- **Azure Artifacts**
 - 2 GiB free per organization
- **Azure Test Plans**

First 5 user free
5,06 € per user / month

Basic Plan

- **Azure Pipelines**
 - 1 Microsoft-hosted job up to 1800 minutes
 - 1 self-hosted job unlimited time
- **Azure Boards**
 - Work item tracking and Kanban boards
- **Azure Repos**
 - Unlimited private Git repos
- **Azure Artifacts**
 - 2 GiB free per organization

First 5 user free
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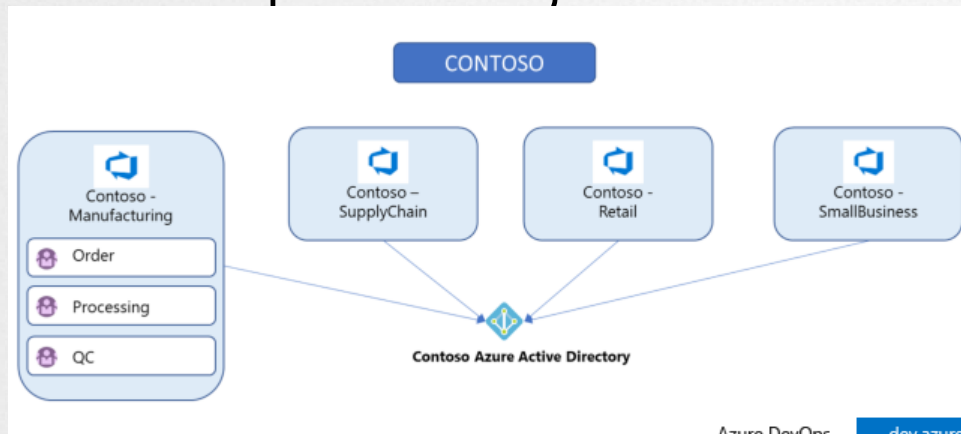
Basic + Test Plans

- **Azure Test Plans**
 - Test planning, tracking & execution
 - Browser based tests with annotation
 - Rich-client test execution
 - User acceptance testing
 - Centralized reporting
- **Azure Pipelines**
- **Azure Boards**
- **Azure Repos**
- **Azure Artifacts**

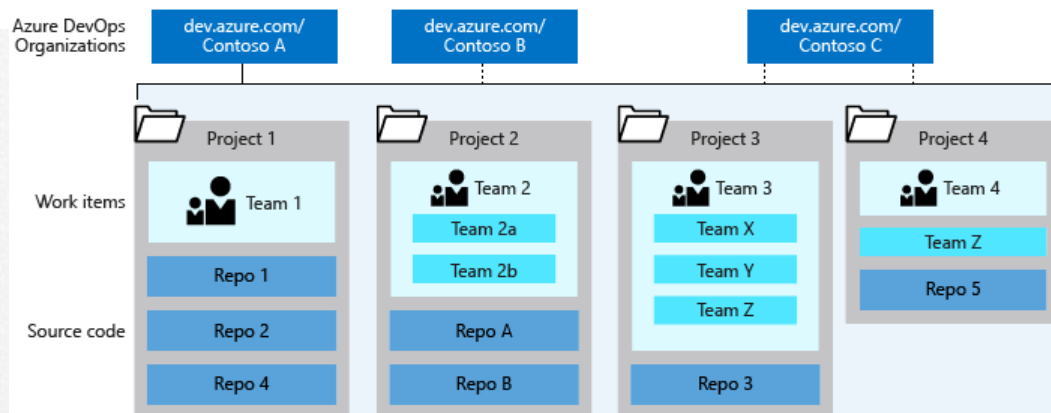
43,86 € per user / month



DevOps Organizations and Projects



Your company (using a common Azure Active Directory)





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Implement Azure Policy as Code with GitHub





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CloudGUARD

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Thank you!

LinkedIn Learning Course (DE):

<https://www.linkedin.com/learning/microsoft-azure-policy-fur-devops>

