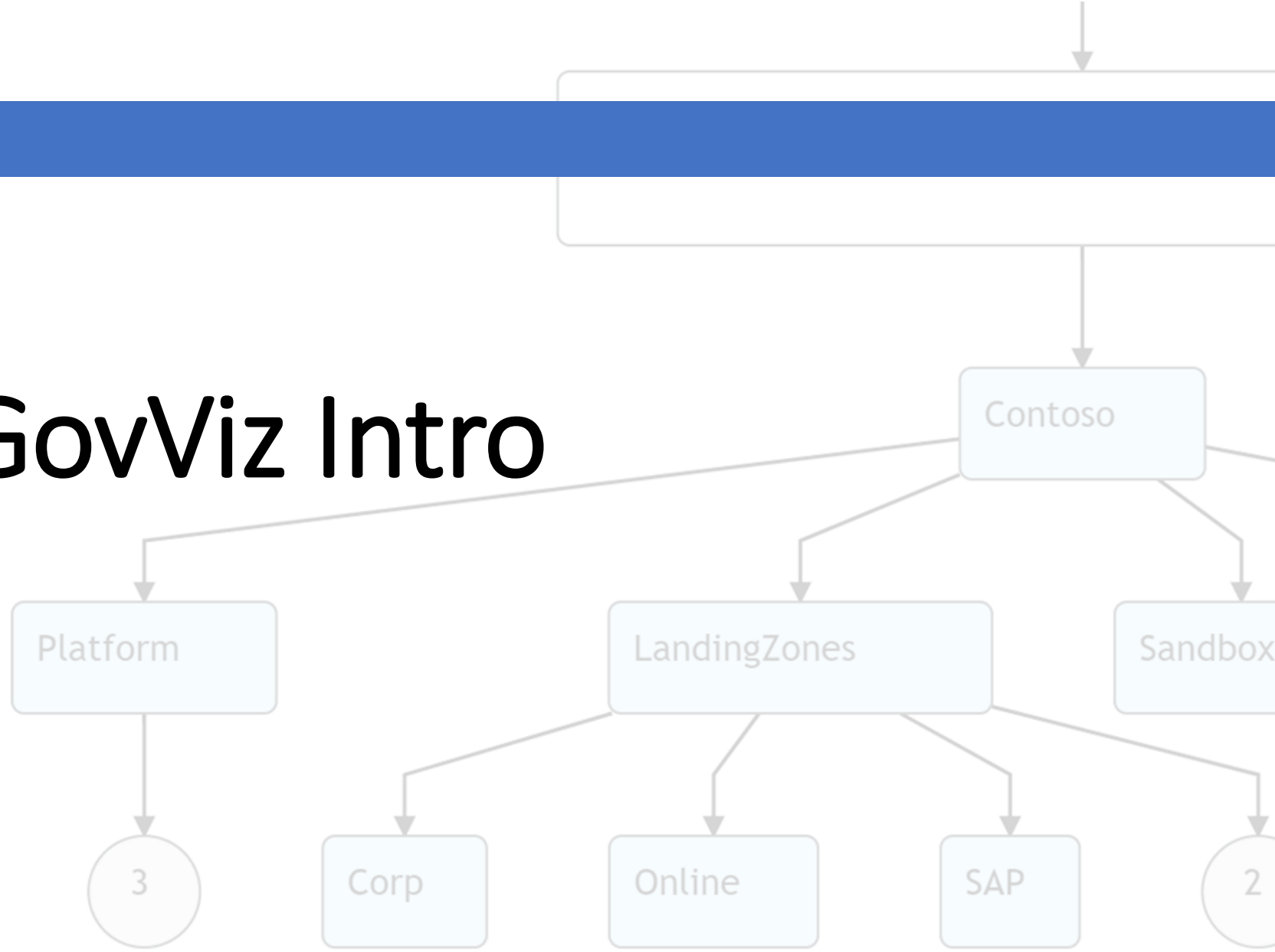
AzGovViz

Azure Governance Visualizer

AzGovViz Intro



aka.ms/AzGovViz

AzGovViz

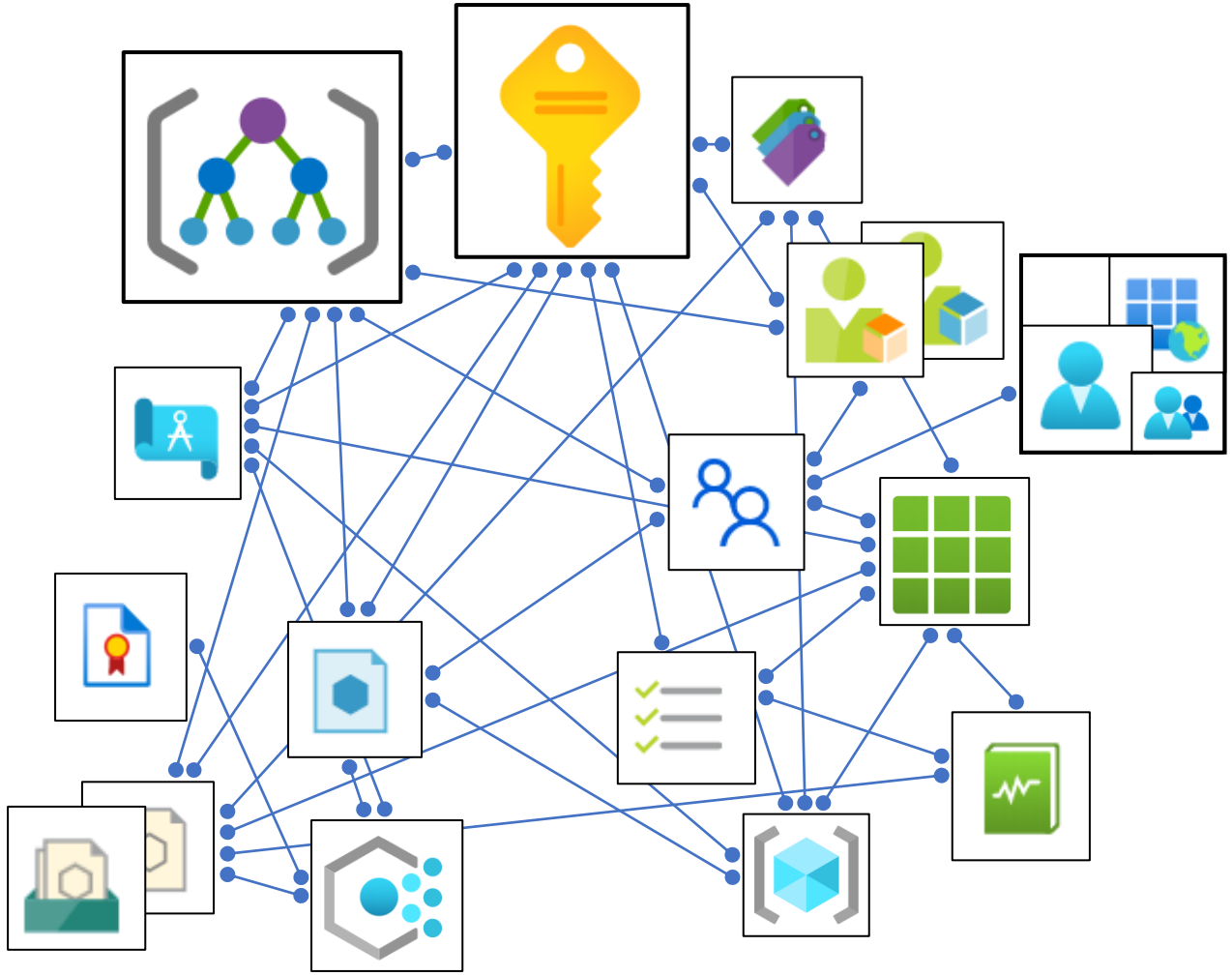
Azure Governance Visualizer

'Azure Governance can be a complex thing.'

Challenging

- Holistic overview on technical Azure Governance implementation
- Connecting the dots

AzGovViz is intended to help you to get a holistic overview on your technical Azure Governance implementation by connecting the dots.



AzGovViz

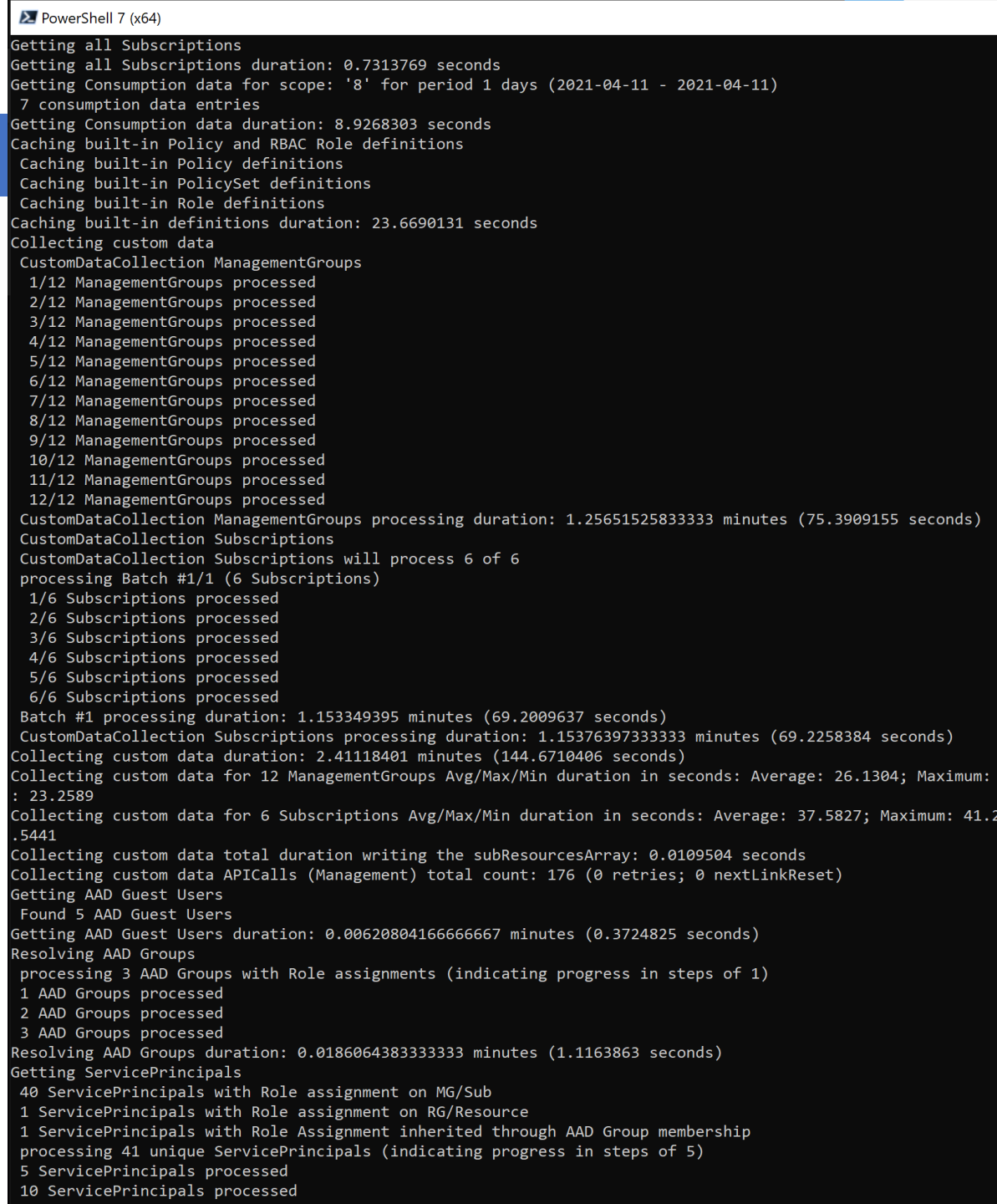
Azure Governance Visualizer

AzGovViz is a PowerShell script that captures Azure Governance related information such as Azure Policy, RBAC (a lot more) by polling Azure ARM and Microsoft Graph APIs.

AzGovViz leverages from the PowerShell Core parallelization feature.

The technical requirements as well as the required permissions are minimal.

```
PS C:\>.\AzGovViz.ps1 -
ManagementGroupId <your-Management-Group-Id>
```



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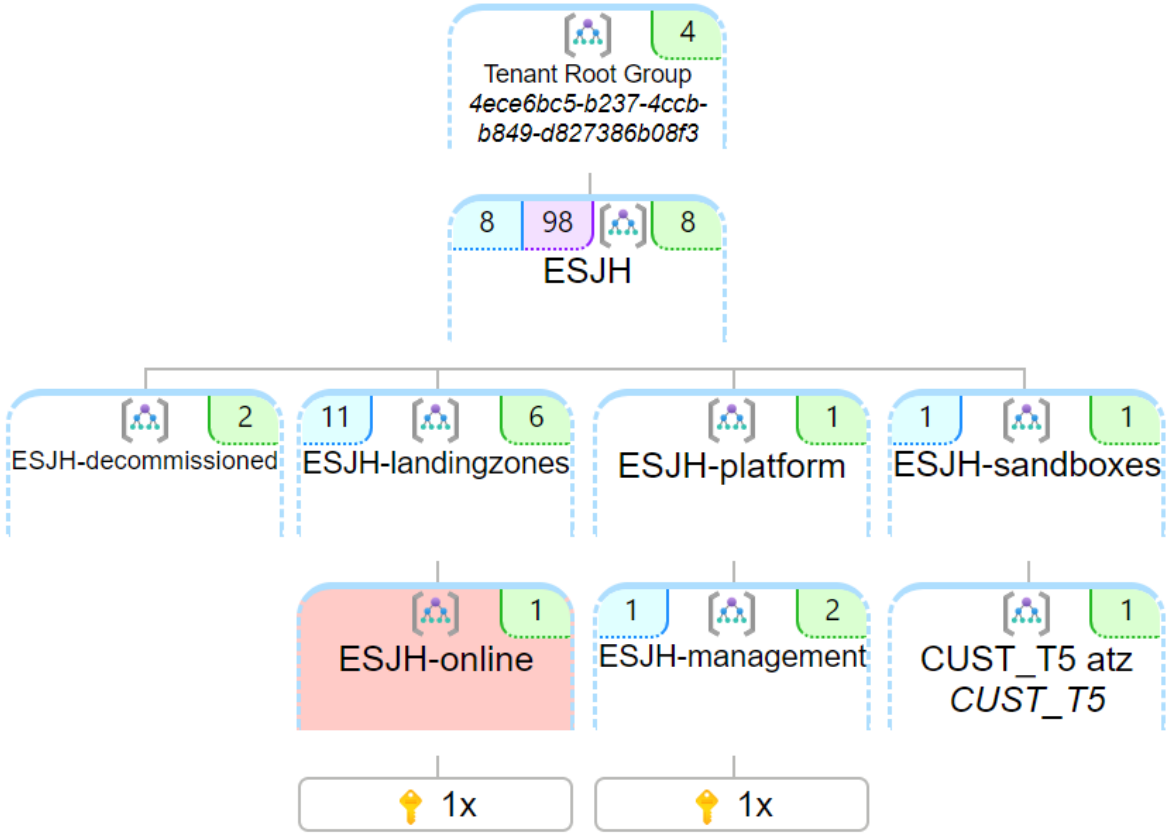
From the collected data AzGovViz provides visibility on your **HierarchyMap** on Management Groups and Subscriptions.



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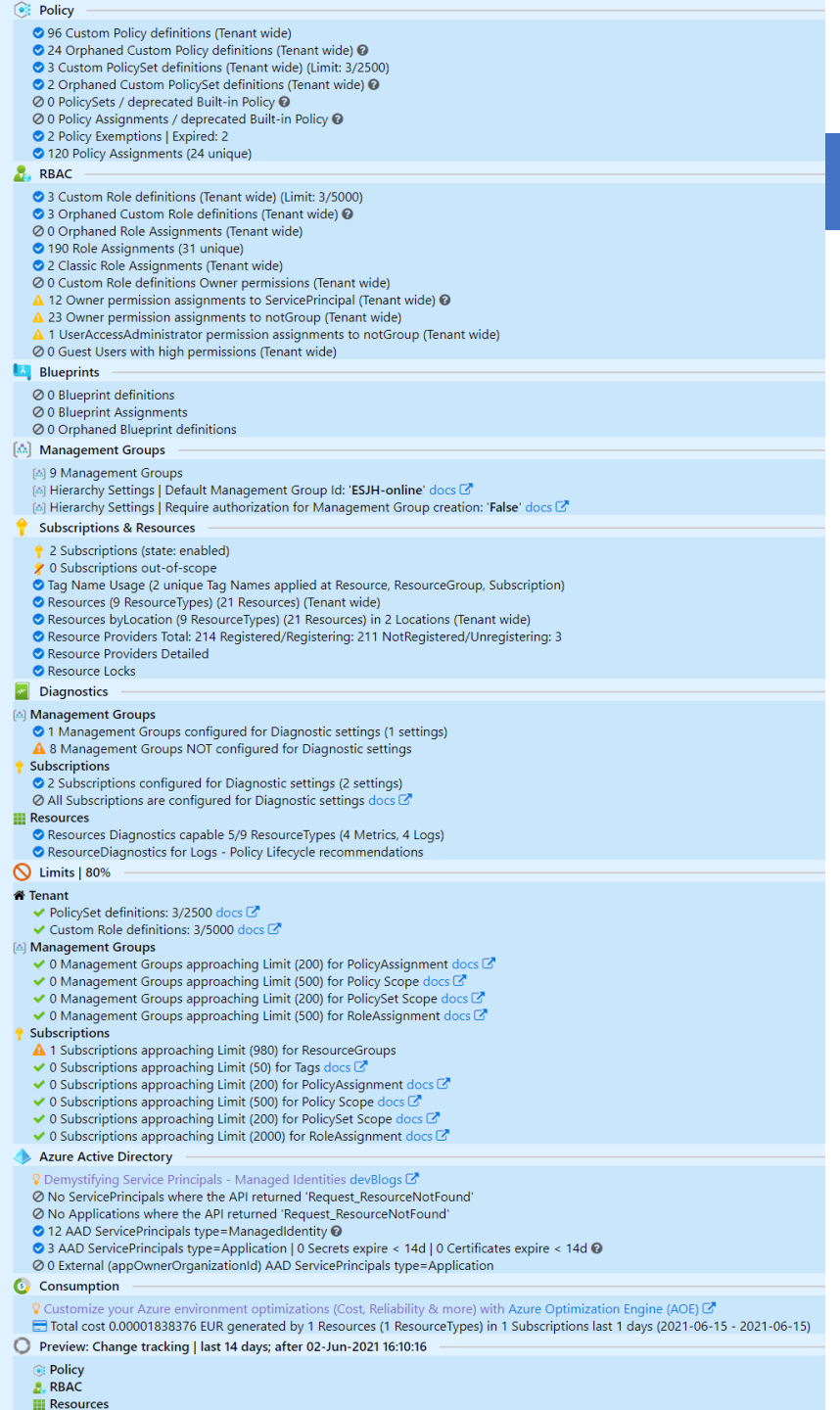
Azure Governance Visualizer

From the collected data AzGovViz provides visibility on your **HierarchyMap**, creates a **TenantSummary** on Management Groups and Subscriptions.

- Policy
- RBAC
- Blueprints
- Management Groups
- Subscriptions & Resources
- Diagnostics
- Limits
- Azure Active Directory
- Consumption
- Change tracking



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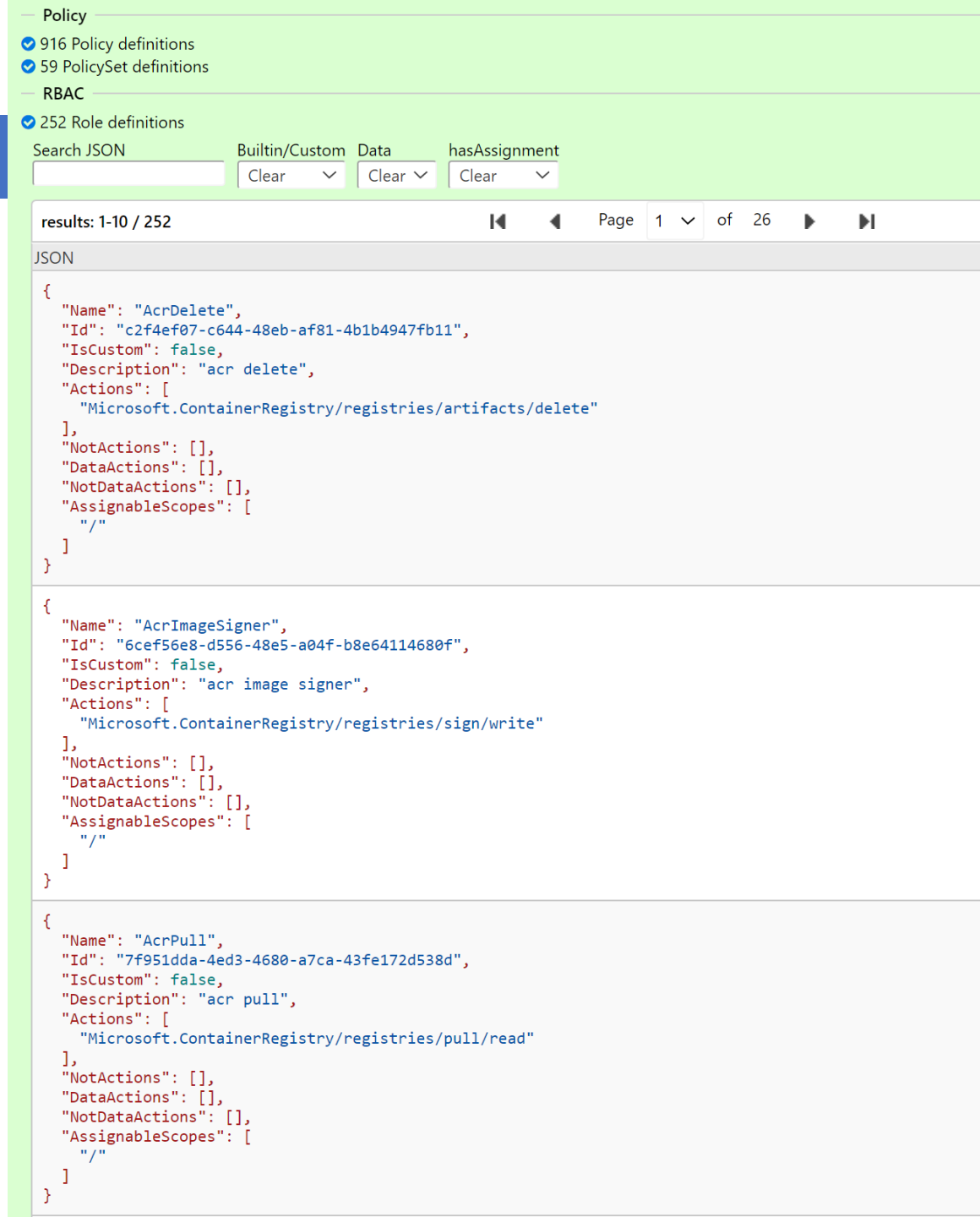
Azure Governance Visualizer

From the collected data AzGovViz provides visibility on your **HierarchyMap**, creates a **TenantSummary**, creates **DefinitionInsights** on Management Groups and Subscriptions.

- Policy definitions
- PolicySet definitions
- RBAC Role definitions



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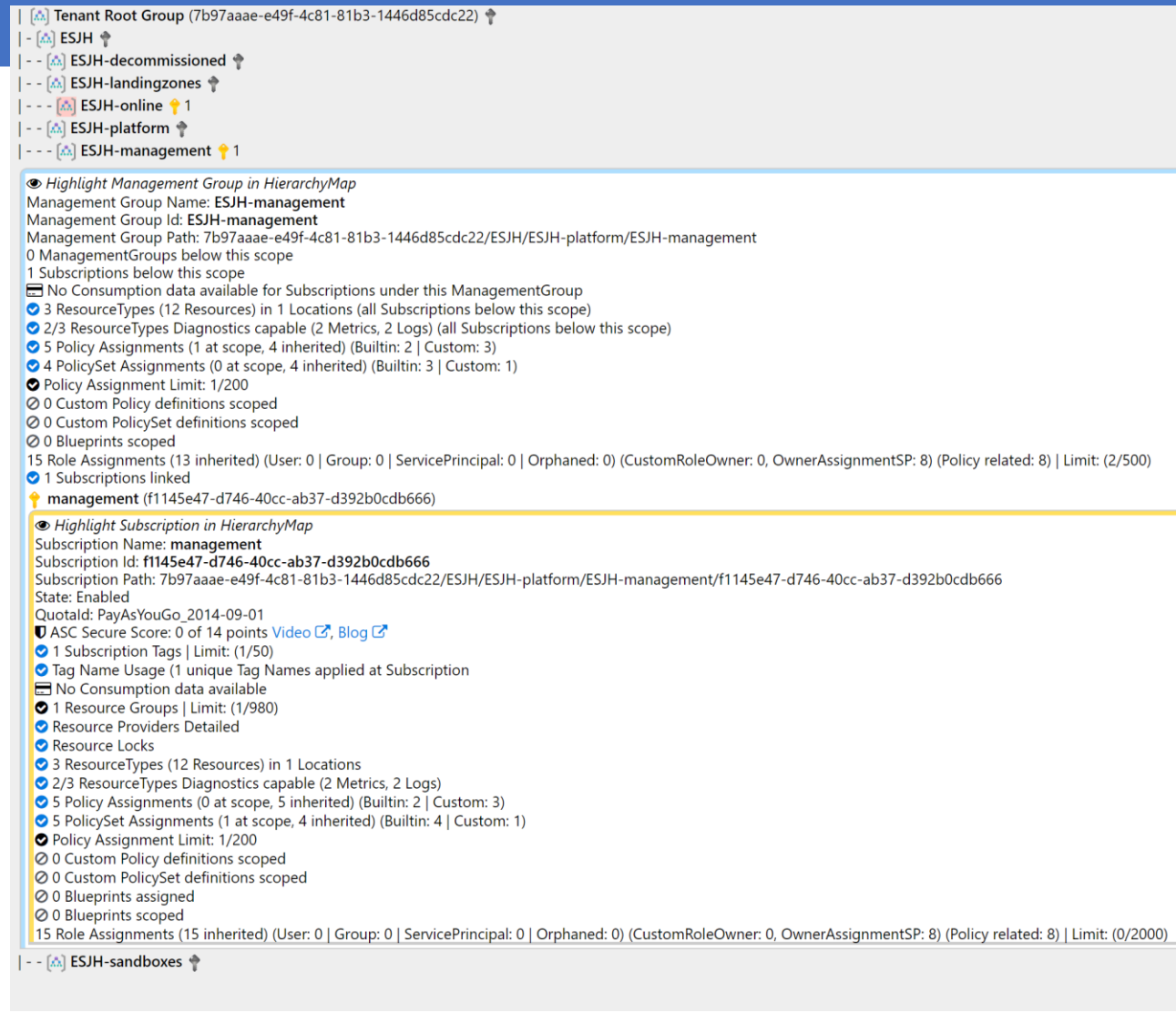
Azure Governance Visualizer

From the collected data AzGovViz provides visibility on your **HierarchyMap**, creates a **TenantSummary**, creates **DefinitionInsights** and builds granular **ScopeInsights** on Management Groups and Subscriptions.

- Management Groups
- Subscriptions



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Azure Governance Visualizer

data ➡ output

- Hierarchy Settings
- Policy Definitions, Assignments, Compliance
- RBAC Definitions, Assignments
- Blueprints Definitions, Assignments
- Resource Groups
- Resource Providers
- Resource Types
- Resources
- Locks usage
- Tags usage
- Approaching ARM Limits
- Resource Diagnostics capability
- ServicePrincipal/Application insights
- Consumption information
- Security

CSV file(s)

- Collected data available in CSV file
- PolicyAssignments, RoleAssignments, AllResource

HTML file

- Connects the dots by providing insights on **HierarchyMap**, **TenantSummary**, **DefinitionInsights** and **ScopeInsights** on Management Groups and Subscriptions

Azure DevOps Wiki 'Mermaid plugin' ready markdown file

- Limited to hierarchy and list of Management Groups / Subscriptions plus a short summary

JSON file

- Export of ManagementGroup Hierarchy including all MG/Sub Policy/RBAC definitions, Policy/RBAC assignments and some more relevant information to JSON

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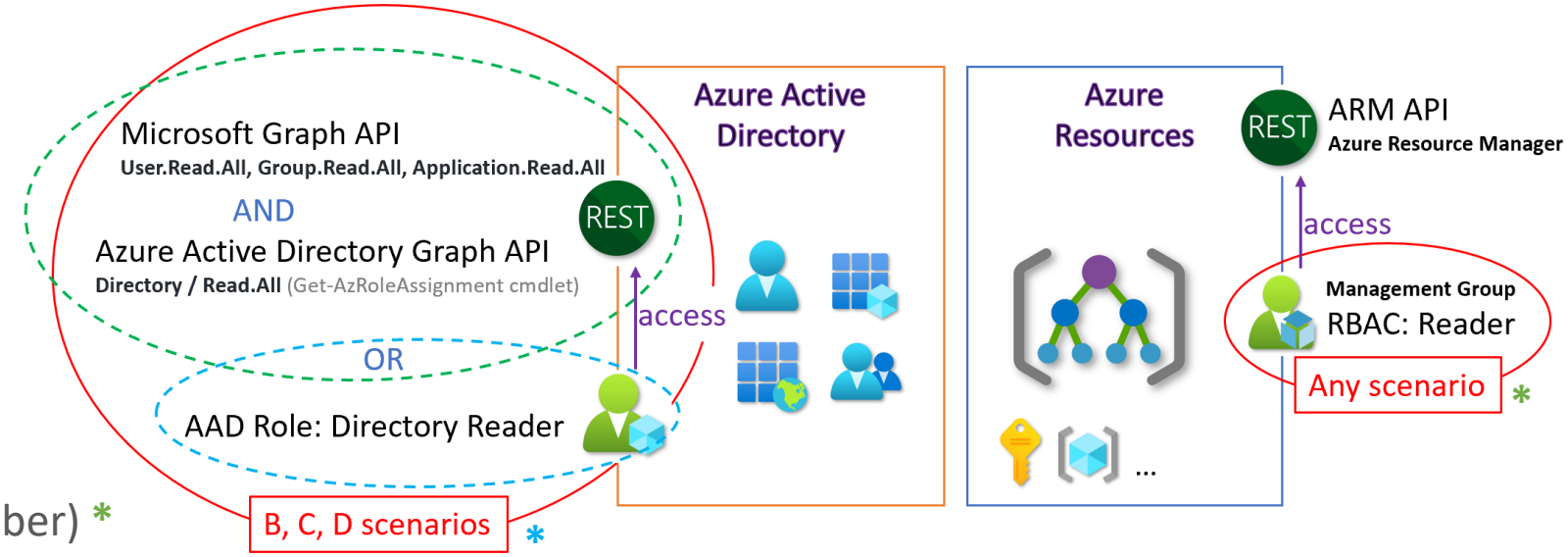
Scenarios / requirements

Requirements for all scenarios

- PowerShell Core (7.0.3)
- PowerShell Az Modules
  - Az.Accounts
  - Az.Resources
  - ~~Az.ResourceGraph~~
- RBAC: **Reader** on Management Group



Scenario **A**: Console - User (userType=member) *
Scenario **B**: Console - User (userType=guest) **
Scenario **C**: Console - ServicePrincipal **
Scenario **D**: Azure DevOps Pipeline - ServiceConnection/ServicePrincipal **

*API permissions: *http://aka.ms/AzGovViz#azgovviz-technical-documentation*

Environments: AzGovViz is designed to support all Azure Clouds (AzureCloud, AzureUSGovernment, AzureChinaCloud, AzureGermanCloud), however by today it is only verified working on AzureCloud and AzureChinaCloud
(China Billing not supported)

AzGovViz DEMO version 5

Enterprise-Scale Landing Zones (WingTip)

RoadMap

- Ingest findings to Log Analytics

Confidentiality of information

! AzGovViz creates very detailed information about your Azure Governance setup. In your organizations best interest, the **outputs should be protected from non-authorized access!**

Your contribution welcome!

AzGovViz GitHub Repositories

- Main Repository
  https://github.com/JulianHayward/Azure-MG-Sub-Governance-Reporting
- Microsoft CAF (Cloud Adoption Framework) Repository
  https://github.com/microsoft/CloudAdoptionFramework/tree/master/govern/AzureGovernanceVisualizer

Also checkout AzAdvertizer

.. helps you to keep up with the pace by providing overview and insights on new releases and changes/updates for Azure Governance capabilities such as Azure Policy's policy definitions, initiatives (set definitions), aliases and Azure RBAC's role definitions and resource provider operations. aka.ms/AzAdvertizer