

Zero Trust - Zero Gap? Spotlight on (new) uncovered aspects of your CA design

**Christopher Brumm and Thomas Naunheim** 



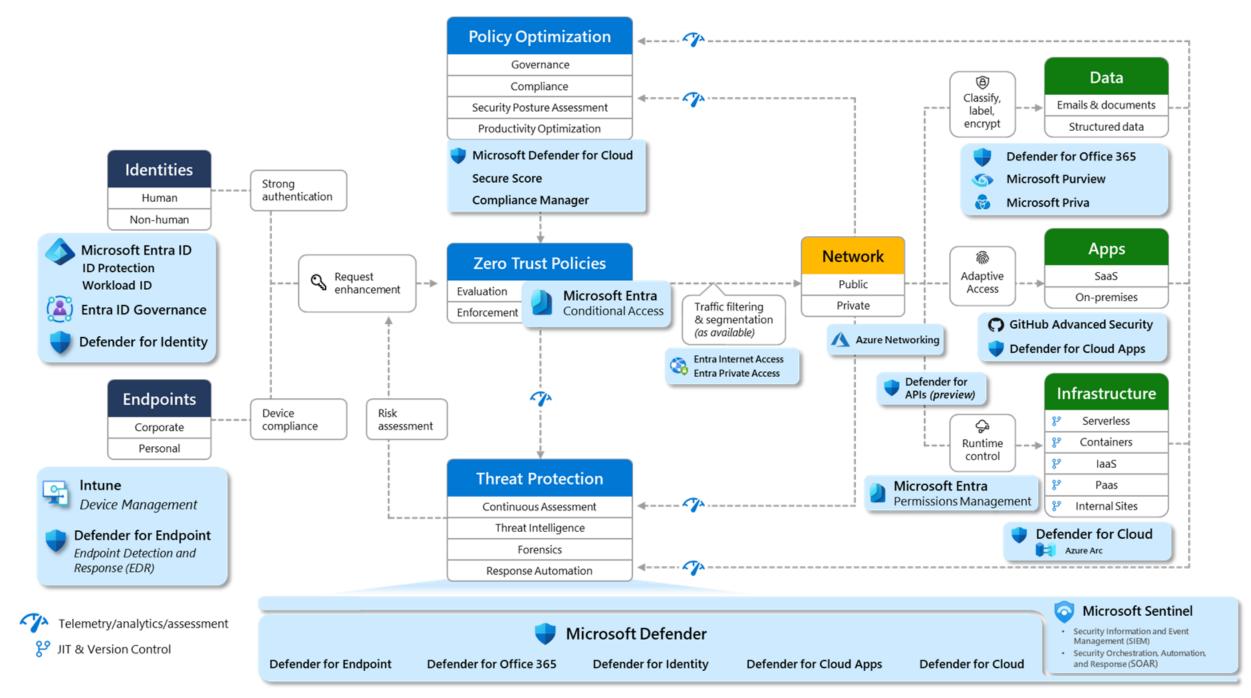
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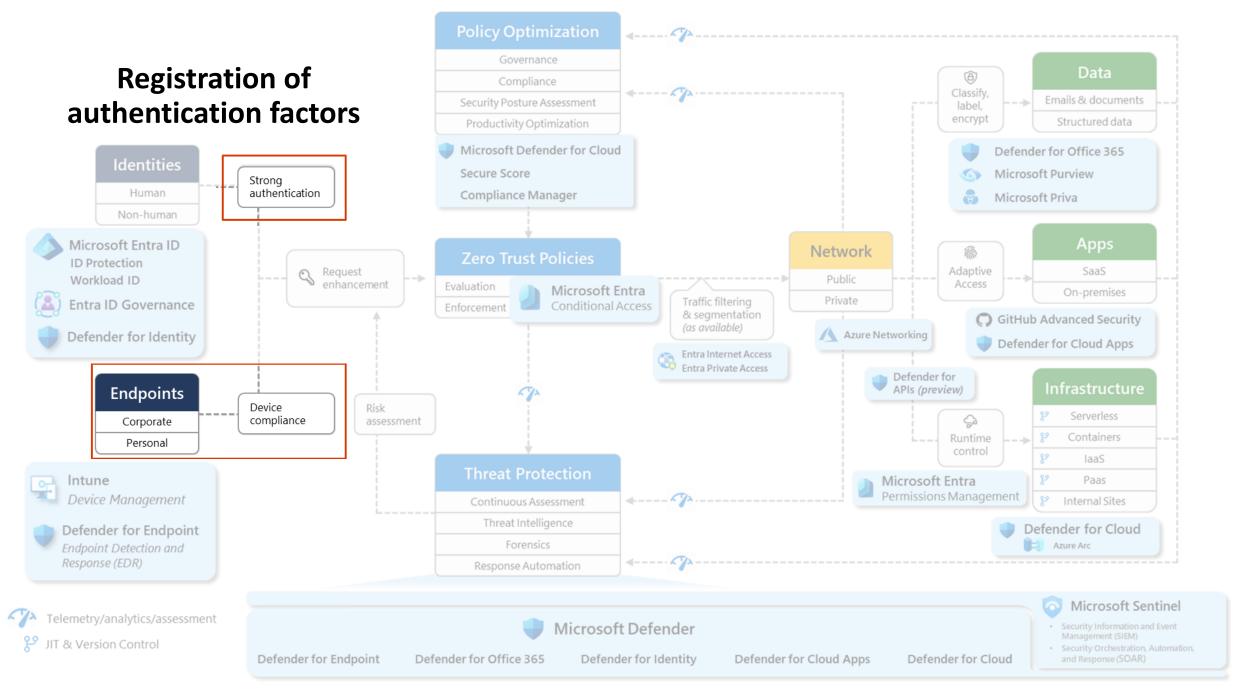
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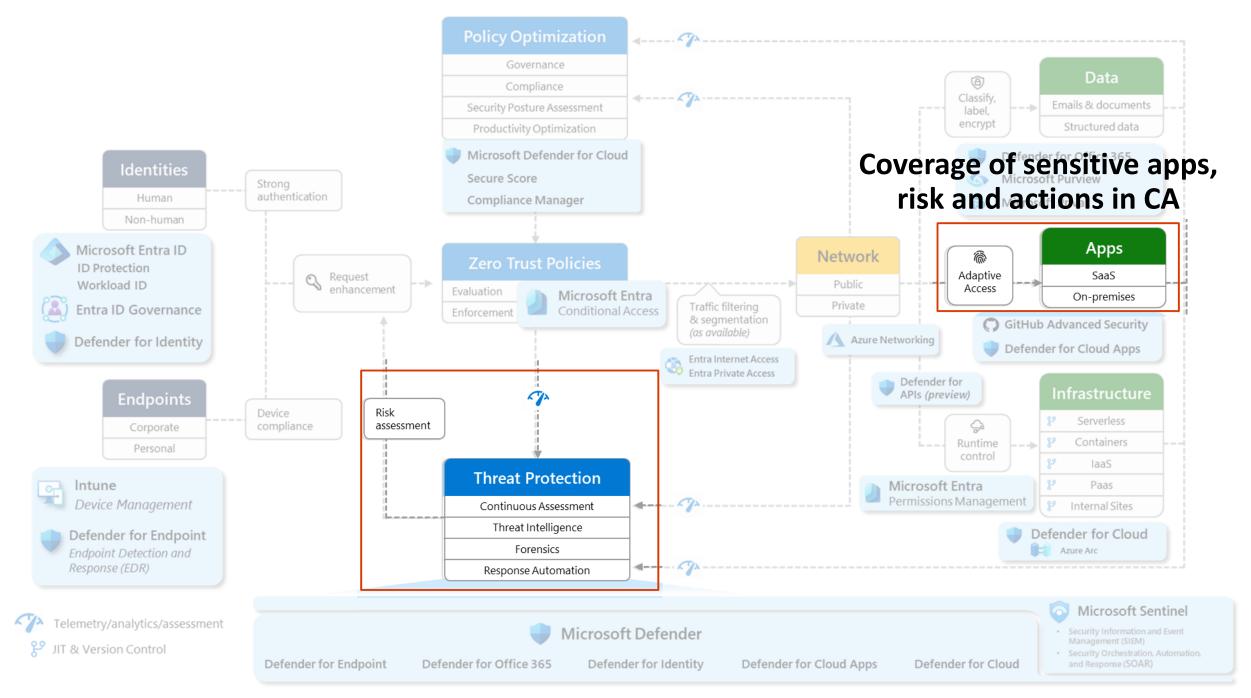


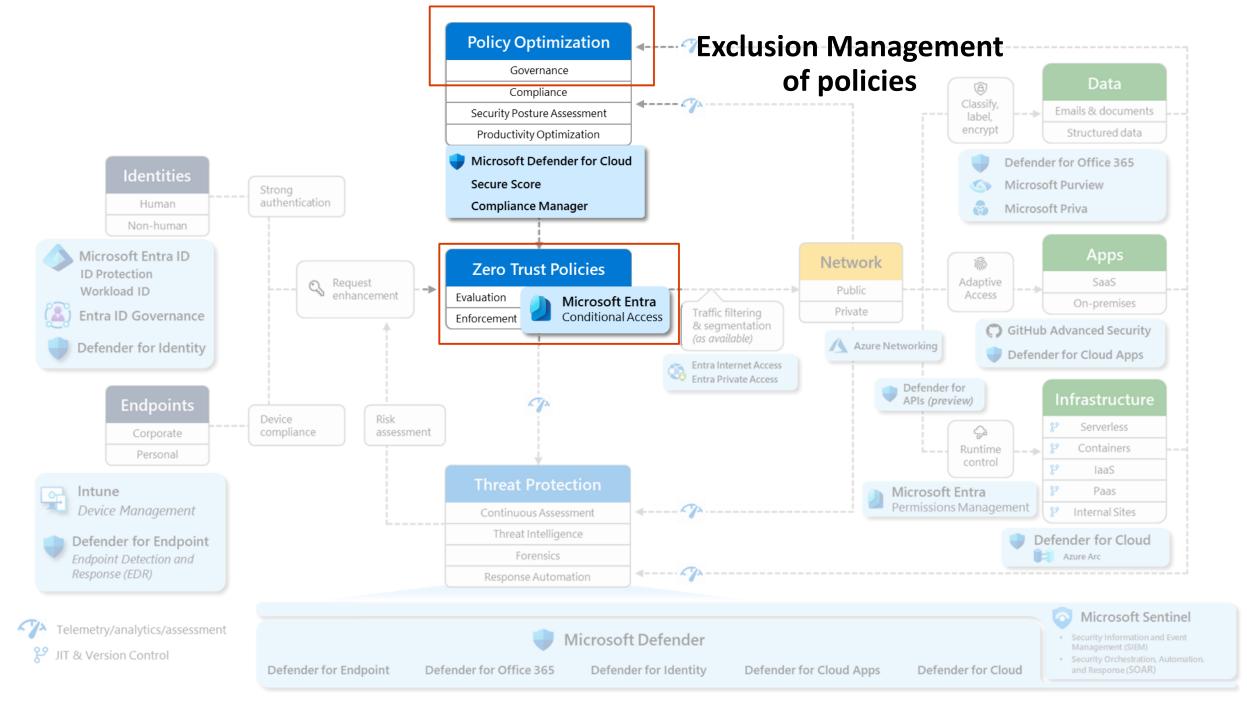
as Cyber Security Architect love (punk-rock) music and good wine

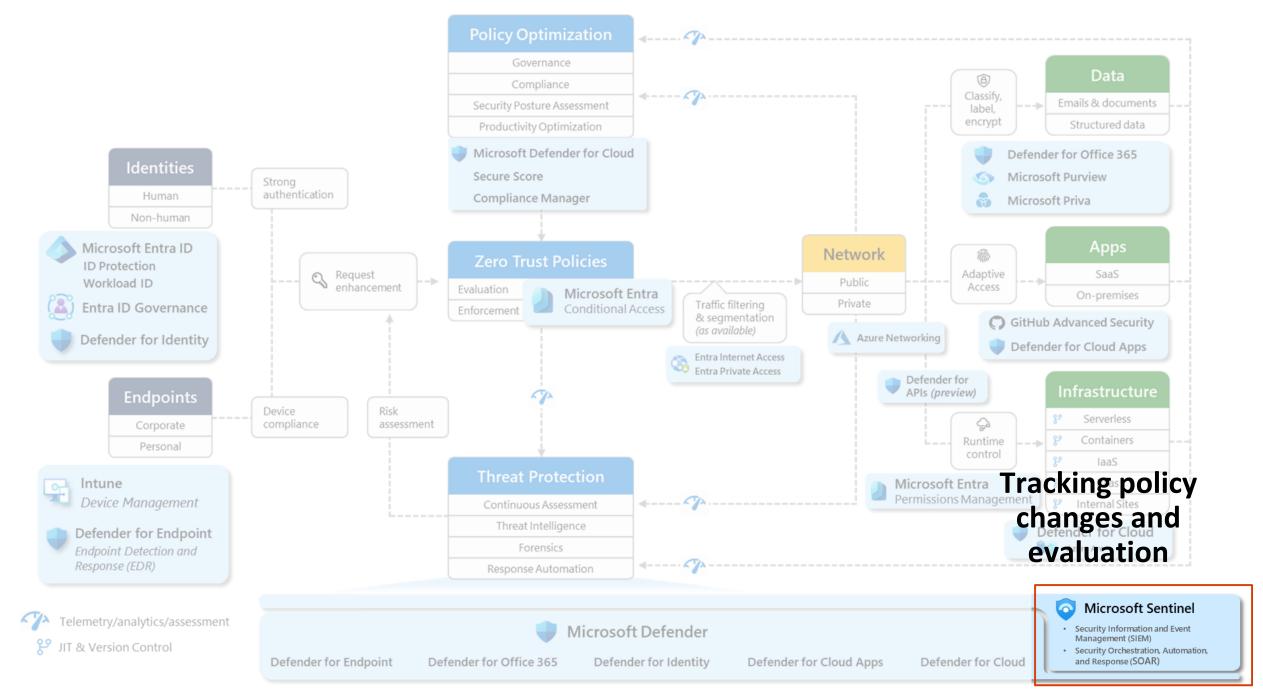


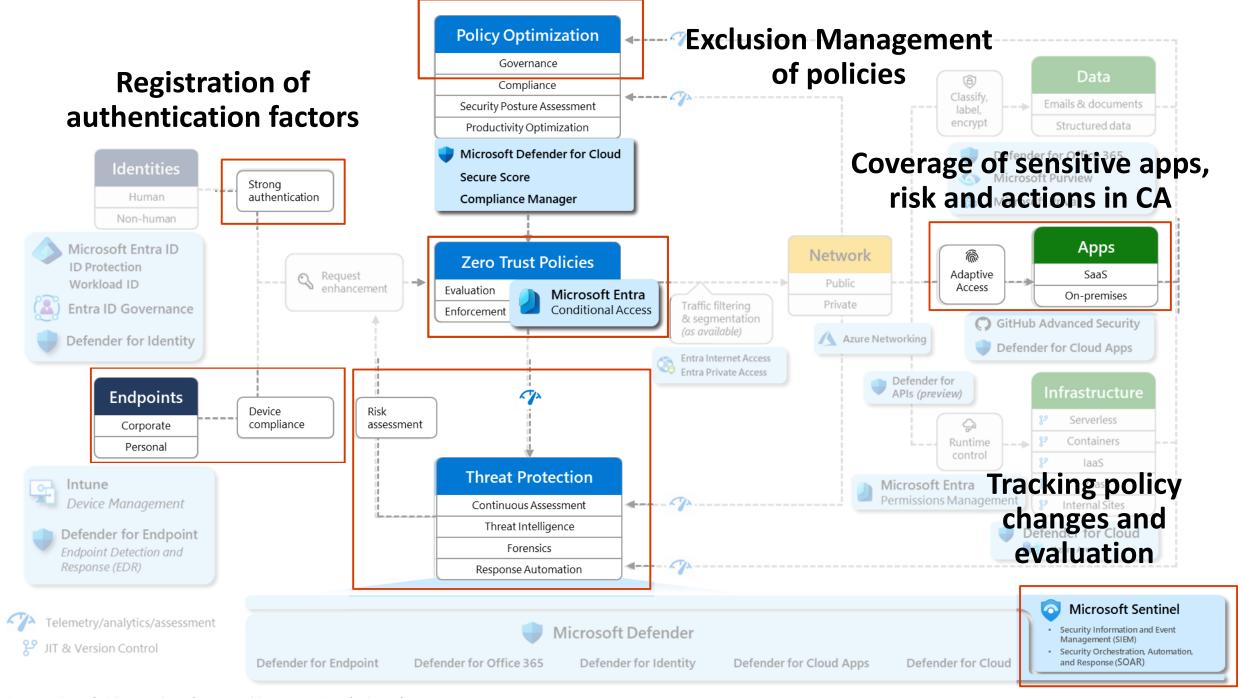
















Registration of authentication factors

Coverage of sensitive apps, risk and actions in CA

#### **Key takeaways:**

- Do's and Don'ts in restricting authentication methods and flows by CA
- Attack paths and risks of weak operationalization of CA policies
- Importance of CAE and Session Management

Exclusion Management of policies

Tracking policy changes and evaluation

# Registration of authentication factors





#### **Auth Factor Registration Maturity**

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**Enforce MFA for Device Registration** 



Ask users to register MFA

**Enforce MFA with SIF for Intune Enrollment** 

**Enforce MFA** registration and usage

**Block Personal Devices** 

Restrict MFA registration to Trusted Devices / Locations

**Enforce TAP/FIDO2** 

Make TAP a core part of your lifecycle processes



#### **Demo: TAP Self-Service**

Enable your users to request a Temporary Access Pass in a self-service portal



Coverage of sensitive apps, risk and actions in CA





#### **Re-evaluation of Conditional Access**

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Risk-based and **User Action Policy** 



**CAE** for supported M365 apps and risk/critical events

**Enforce Re-Auth by Risk Conditions or User Actions, Limited** session lifetime

**Require Re-Auth** on sensitive app actions or context

**Require Re-Authentication on** sensitive cloud apps

**CAE** for location change by strictly enforcement



## **Demo: Sensitive Apps & Actions**

Authentication context use cases and limitations

Acquired token and established sesssion from GSA client outside of compliant network



# **Exclusion Management of policies**





#### **Exclusion Management of User**

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Using synced cloud-only Security Groups for User Exclusion

Identity Governance Access Review of Exclusion Groups

Delegate management on exclusion group (on specific scope) to helpdesk or selfservice (temporary) Protecting security groups and manage exclusions with Entitlement Management



#### The Exclusion Management Dilemma

#### Role-Assignable Group



Restrict group management to owner, Global and Priv Role Admin



<u>Can be</u> managed by Entitlement management



Group member inherit the protection level of the group



# Restricted Administrative Unit



Restrict group management to dedicated role assignments



<u>Can not</u> be managed by Entitlement management



No protection inheritance to the group members

# Tracking policy changes and evaluation





### Policy changes and monitoring

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Enable sign-in logs and audit logs, using built-in workbooks (CA Insights)

Manual modification of policy or using template

Alert on policy change, comparison policy in Portal

Duplicate and Import policy via portal

Comparison of policy changes and effectiveness with community tools

Export policies by using Graph API (e.g., EntraExporter)

Monitoring of CA effectiveness (e.g., Maester, KQL), alert on changes outside CI/CD

"CA-as-Code" by using Terraform/Graph API

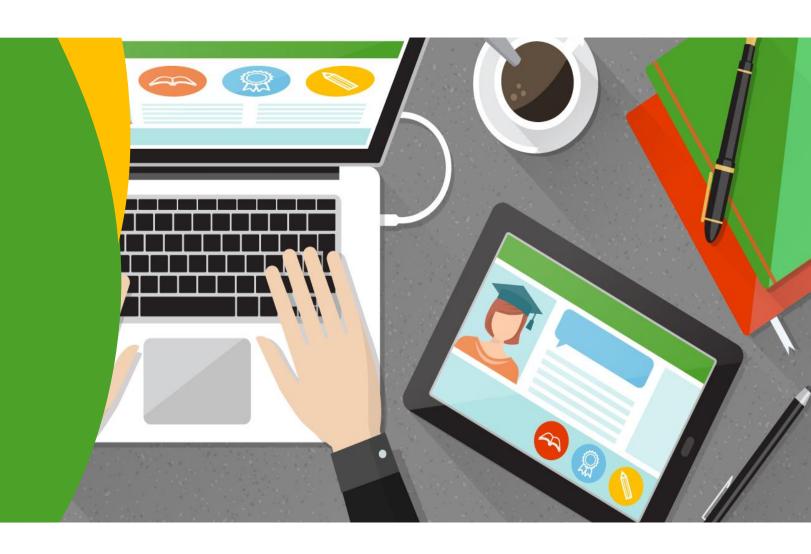


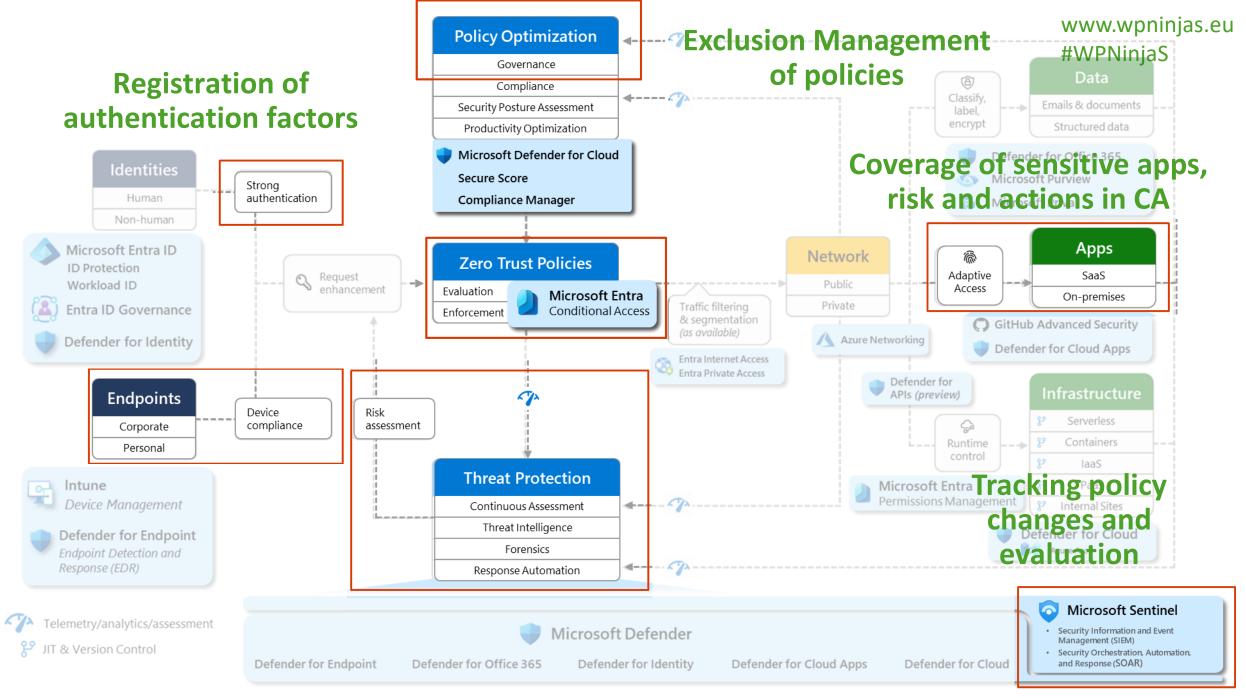
### Demo: Advanced auditing & monitoring

Compare of policy change in UI portal

Community Workbooks for CA policy monitoring

Evaluation of Conditional Access configuration posture by Maester





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