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About "Gregor Reimling"



Focus

Azure Governance, Security and IaaS

From

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My Blog

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Certifications

Cybersecurity Architect, MVP for MS Azure

Hobbies

Family, Community, Worldtraveler

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Agenda

Harden Identities

Azure AD Recommendations

Harden Azure Tenant

CAF, Enterprise Scale and Advisor Recommendations

Key takeaways:

- Overview of important Security settings
- Recommendation for higher security with simple steps
- Knowledge about the important settings

Harden Azure with Defender for Cloud

Defender for Cloud

Harden Azure with Policy

Recommendations for Minimum Azure Policy Settings

Harden Azure Network Layer

Recommendations for Azure Network and Firewall

Azure AD Hardening



Identity Attacks rising

300% increase in identity attacks over the past year.







562 K high-risk enterprise sign-in attempts flagged in January 2019

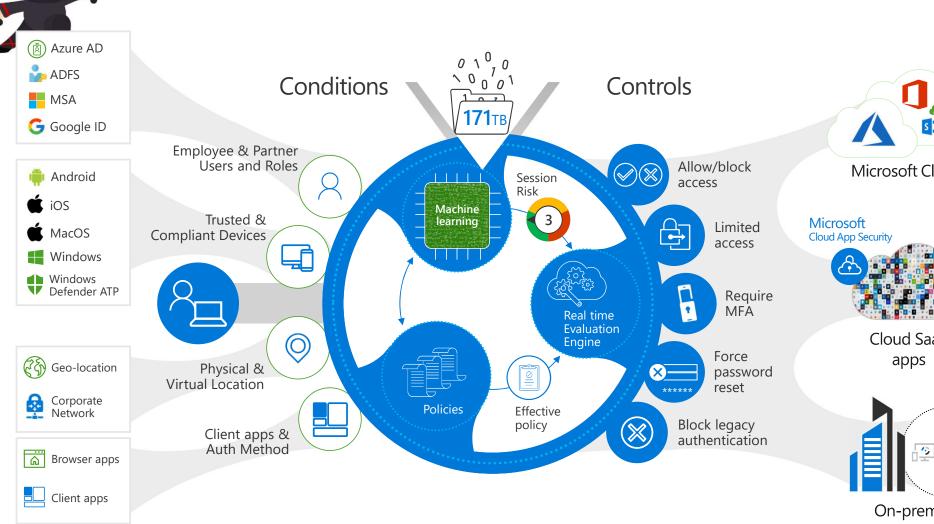
158 K compromised accounts detected in January 2019

4.8B attacker-driven sign-ins detected in January 2019

81% verizon Verizon 2017 Data Breach Investigation Report

of hacking breaches leverage stolen or weak passwords

Identity Protection with Conditional Accesswww.wpninjas.eu





Microsoft Cloud



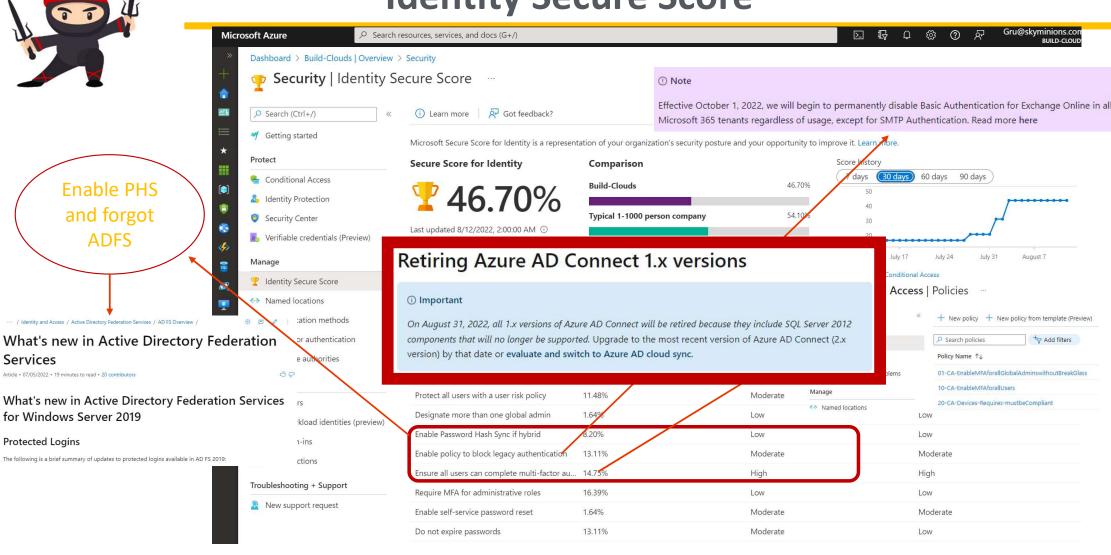
Cloud SaaS



On-premises & web apps

www.wpninjas.eu







Passwordless Options

Windows Hello for Business

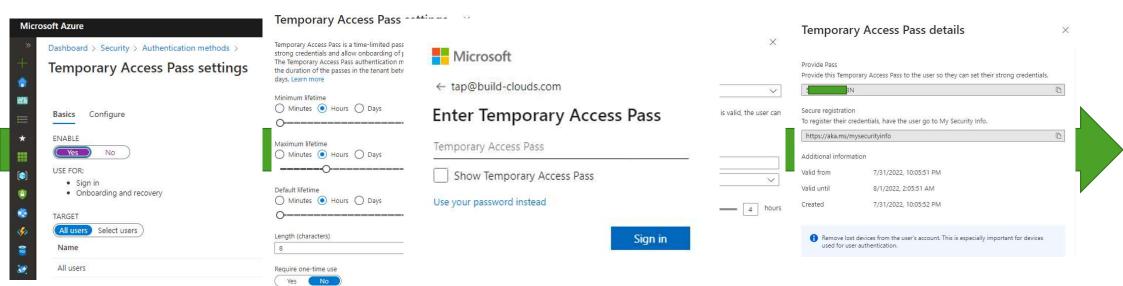
Microsoft Authenticator FIDO2 Security Keys



Azure Active Directory passwordless sign-in - Microsoft Entra | Microsoft Docs



Temporary Access Pass





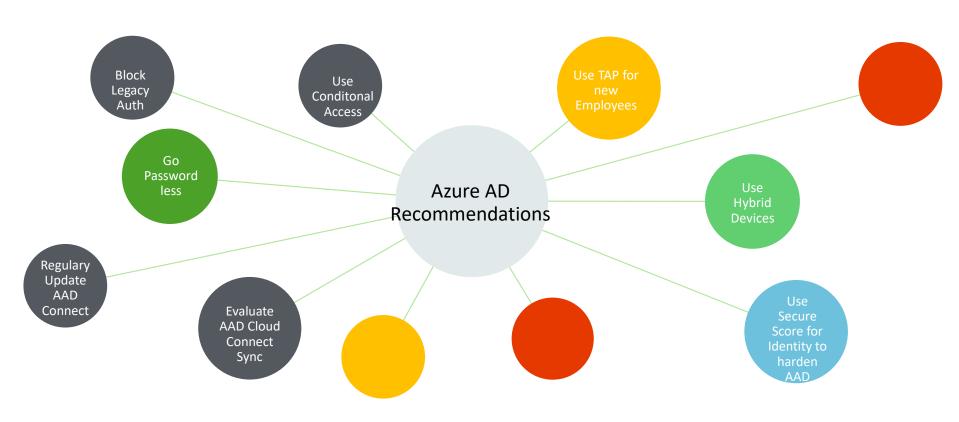
Show following settings

- Identity Secure Score
- Conditional Access rules
- Temporary Access Pass



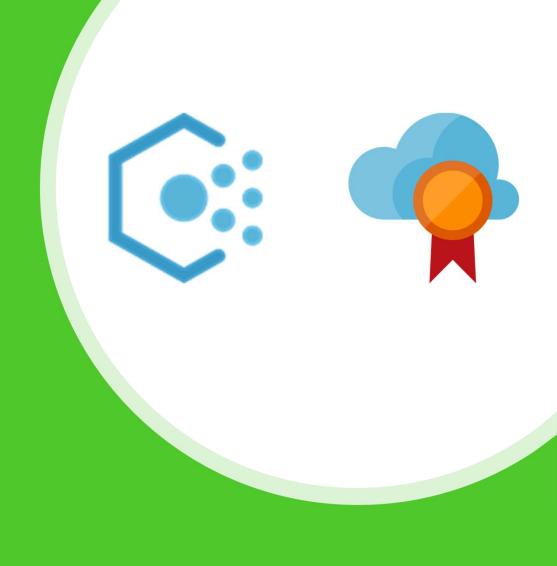


Azure AD Recommendations



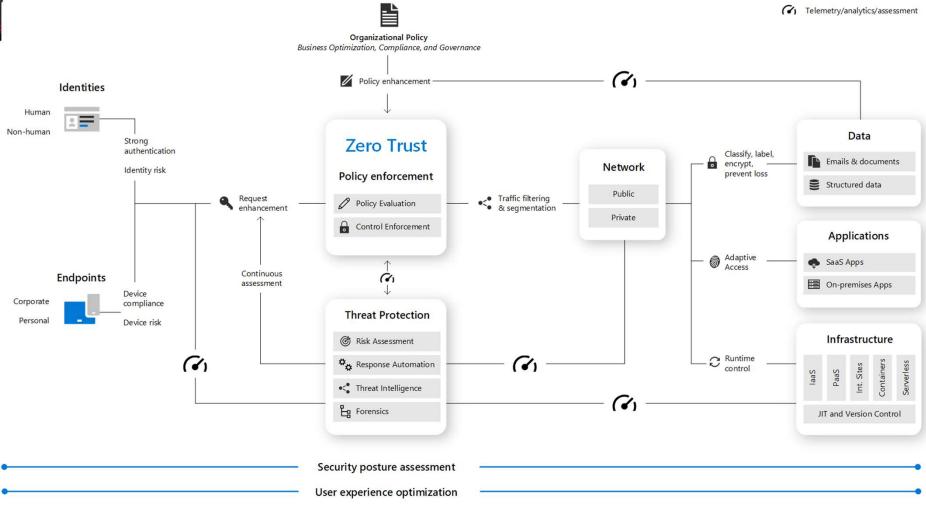
Azure Tenant Hardening





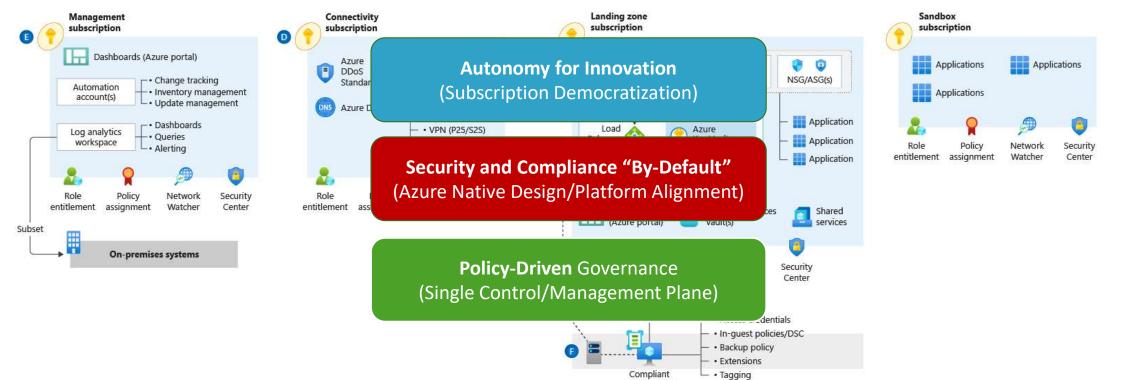


Zero Trust architecture





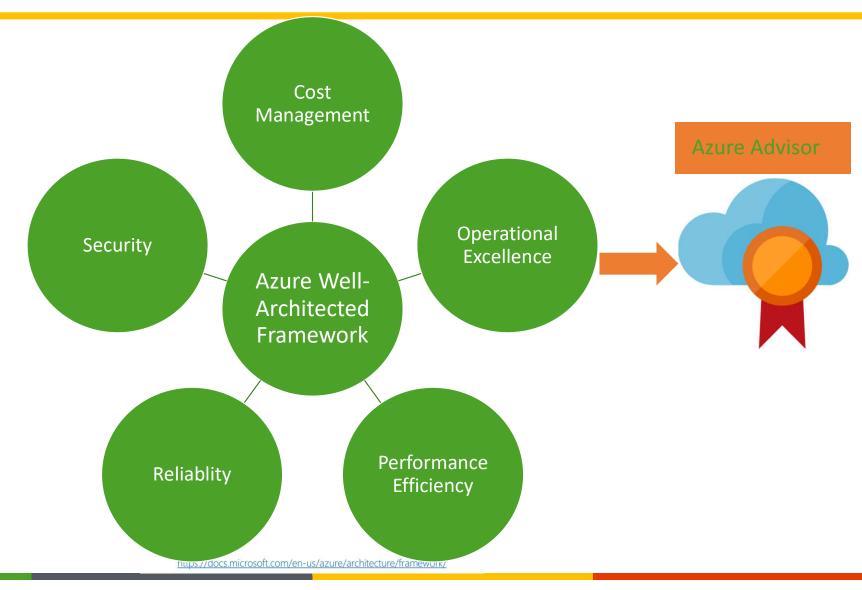
Enterprise-Scale - Design Principles



VM templates

Well-architected Framework

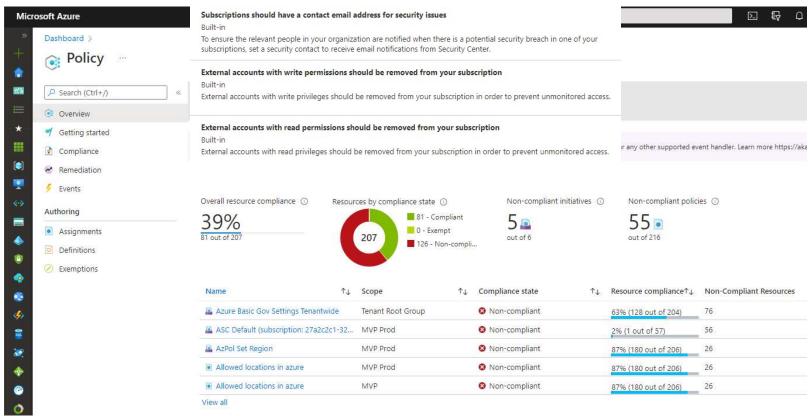
"The Azure Well-Architected Framework is a set of guiding tenets that can be used to improve the quality of a workload."





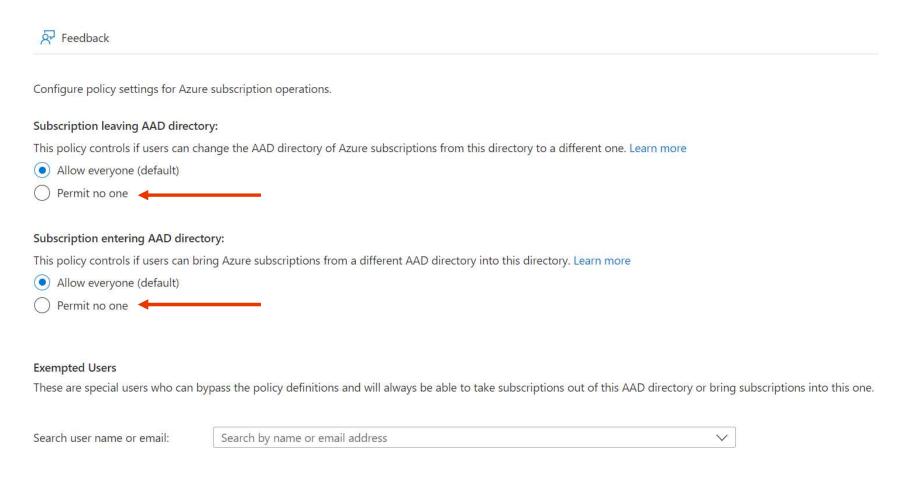


Azure Policy



Manage Subscription Policies

Subscriptions | Manage policies





Dive into the Azure Portal

- Azure Advisor
- Azure Policy



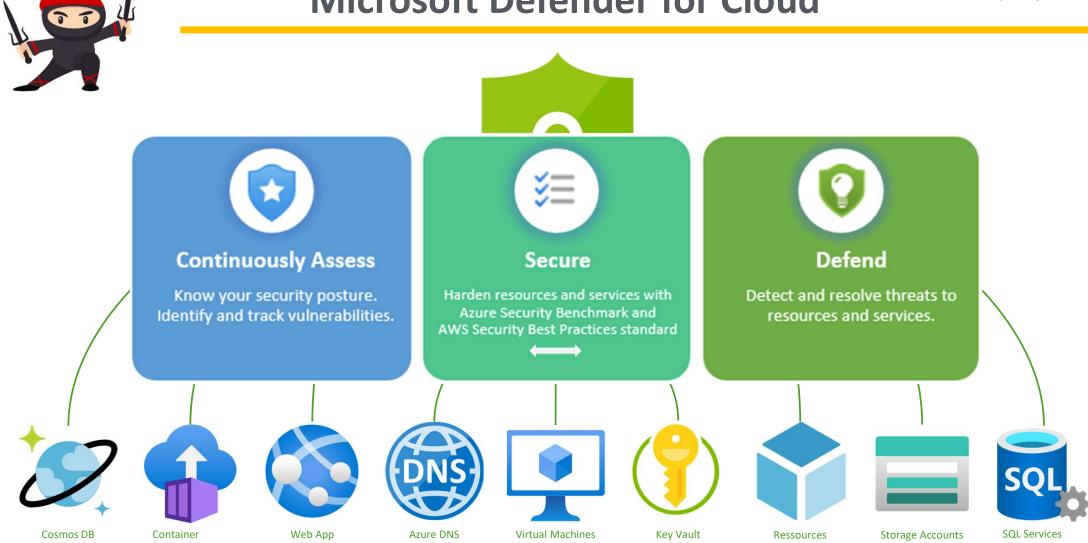


Microsoft Defender for Cloud





Microsoft Defender for Cloud





MS Defender for Cloud



Security posture & compliance Secure score Asset management Policy

Server protection
(Microsoft Defender for Cloud for VMs)

Threat detection

VA (power by Qualys)

Application control

Automation & Automation SIEM integration Export



Dive into the Azure Portal

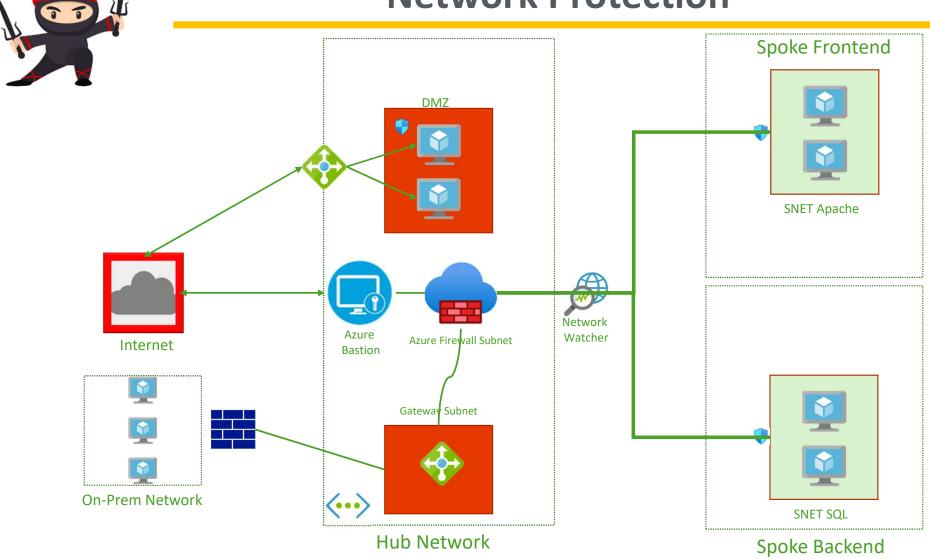
- Microsoft Defender for Cloud
- Threat Protection
- Alerting and Protection



Azure Network Hardening



Network Protection





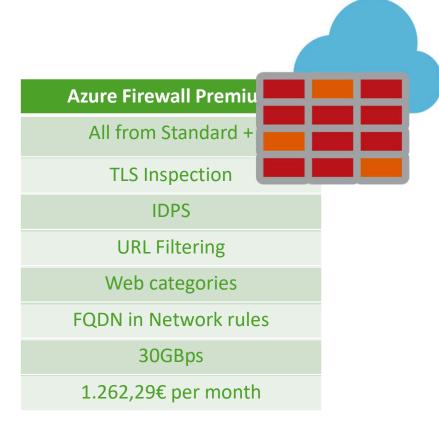
Azure IaaS Recommendations





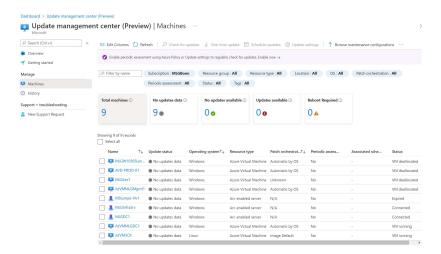
Azure Firewall Editions

Azure Firewall Standard
Built-in high availability
Availability Zones
Application FQDN Filtering Rules
Unrestricted Cloud Scalability
Threat Intelligence
FQDN in Network rules
30GBps
901,24€ per month









Update Management (Center)





Update Management Center (preview)

New solution for centrally Update Management accross different environments

No dependencys to Log Analytics Agent

Fully support for Azure Arc managed VMs

Support Windows and Linux Vms

Support Hot patching

Support automatic VM guest patching

Support automatic vivi guest pateming

Is in preview wait for production until release going to GA

Remote Desktop Connection

An authentication error has occurred.
The function requested is not supported

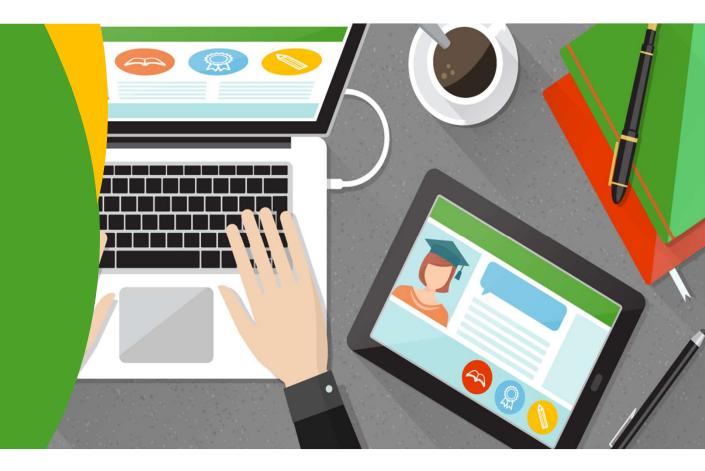
Remote computer: luke
This could be due to CredSSP encryption oracle remediation.
For more information, see https://go.microsoft.com/fwlink/?linkid=866660

OK



Dive into the Azure Portal

• Update Management Center





Harden Azure on different Layers

Azure AD

Use Identity Secure Score as a Starting Point

Harden the Cloud Services

Use Azure Policy for Governance and Security

Patch Cloud Services

Integrate Service in Update Mgmt.

Centralize logging

Forward Sign-In- and Audit Logs to Log Analytic



Use CAF, WAF and Enterprise Scale

Harden the Network

Use vWAN, Hub and Spoke and a Firewall

Use MS Defender for Cloud

Enable Defender for Cloud

Do not forget your Team

Invest in your Team and in Trainings



Microsoft Cybersecurity Reference Architectures (MCRA)

Capabilities

What cybersecurity capabilities does Microsoft have?



Azure Native Controls

What native security is available?



Multi-Cloud & Cross-Platform

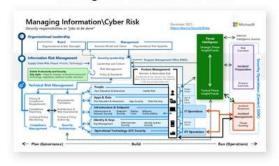
What clouds & platforms does Microsoft protect?

Attack Chain Coverage How does this map to insider and external attacks? ----



People

How are roles & responsibilities evolving with cloud and zero trust?



Zero Trust User Access

How to validate trust of user/devices for all resources?



Security Operations

How to enable rapid incident response?



Secure Access Service Edge (SASE)

What is it? How does it compare to Zero Trust?



Operational Technology

How to enable Zero Trust Security for OT?



aka.ms/MCRA | December 2021 | Microsoft





CLOUD IDENTITY SUMMIT '22



Thu, September 22nd, 2022

Deep-Dive and Q&A sessions on #AzureAD Free Hybrid Event in Bonn, Germany www.identitysummit.cloud





- Reimling.eu Microsoft will disable Basic auth What this means and what you have to do
 - https://www.reimling.eu/?p=4435
- MS Docs Block legacy authentication access to Azure AD with CA
 - Block legacy authentication Azure Active Directory Microsoft Entra | Microsoft Docs
- MS Docs Deprecation of Basic authentication in Exchange Online
 - Deprecation of Basic authentication in Exchange Online | Microsoft Docs
- MS Docs Configure Temporary Access Pass
 - Configure a Temporary Access Pass in Azure AD to register Passwordless authentication methods Microsoft Entra | Microsoft Docs
- MS Docs Retiring Azure AD Connect 1.x versions
 - Azure AD Connect: Version release history Microsoft Entra | Microsoft Docs
- MS Docs Zero Trust Security in Azure
 - Zero Trust security in Azure | Microsoft Docs
- MS Docs Passwordless options for Azure AD
 - Azure Active Directory passwordless sign-in Microsoft Entra | Microsoft Docs
- MS Docs Update Management Center (preview)
 - Update management center (preview) overview | Microsoft Docs
- MS Cybersecurity Rerference Architecture
 - https://aka.ms/MCRA
- Join the MS Security Community
 - Join Our Security Community Microsoft Tech Community



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Thank You





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