

#POWERCON2022

Implementare Active Directory Tier Model e
LAPS (Local Administrator Password Solution)

Stefano Nieri

Senior Consultant – Project Informatica

Stefano.Nieri@project.it



/snieri



/stefanonieri

Active Directory Poll

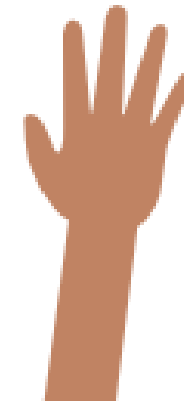
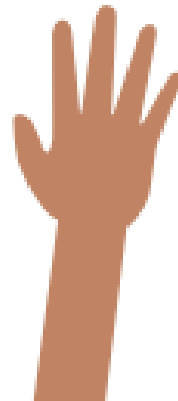
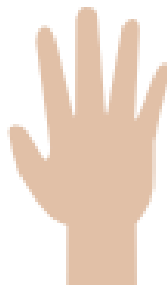
Do you know how many and who are the Domain Admins & AAD GA?

Are you syncing your Domain Admin to Azure AD?

Are you using a single user to authenticate anywhere?

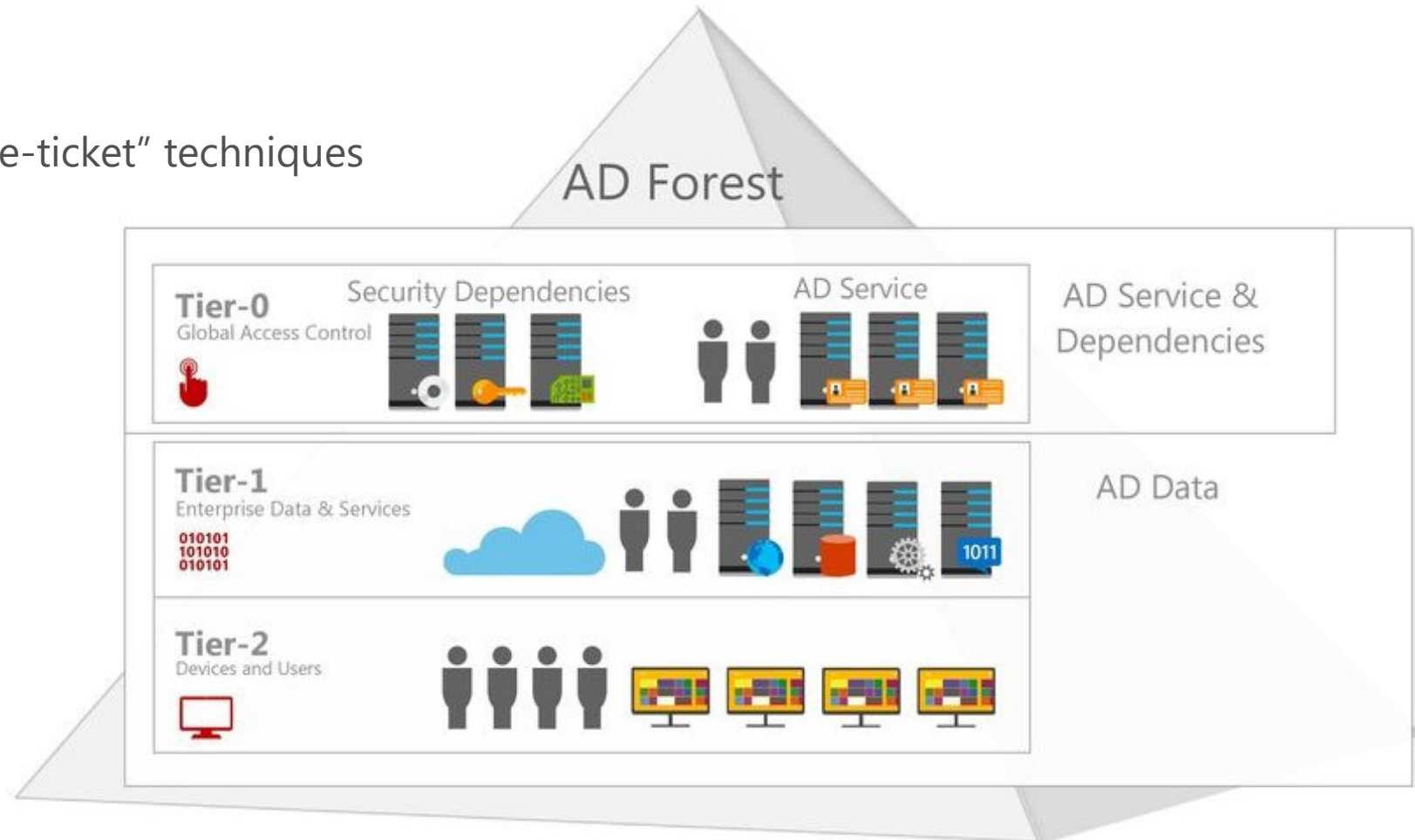
Are you cloning computers and servers with the same local admin pw?

Are you using a Domain Admin account for Scheduled Task and Service?



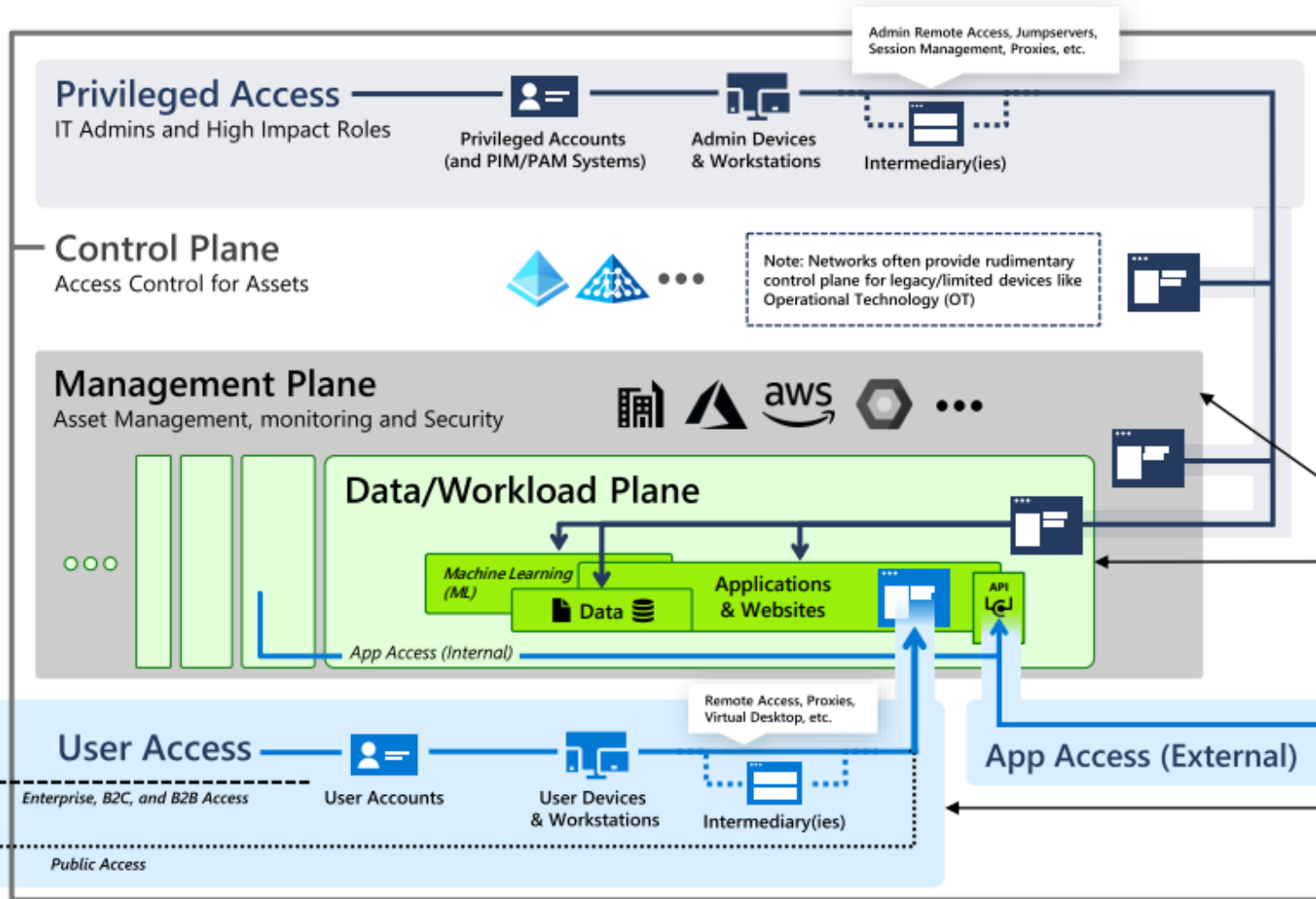
Active Directory Tier Model & LAPS goal

- Increase the cost for an attacker trying to compromise sensitive systems
- Avoid Domain Dominance
- Prevent Privileged Escalation
- Prevent Lateral Movement
- Mitigate Credential Stuff
- Mitigate "Pass-the-Hash" or "Pass-the-ticket" techniques



Comparison to legacy tier model

Upgrades legacy tier model to complete enterprise access model



Evolved purpose and scope

The original tier model was built to contain privilege escalation for on-premises active directory.

The enterprise access model guides access security for full scope of a hybrid on-premises + multi-cloud enterprise following zero trust principles for employees, partners, customers, apps and more

Tier 0 → Control Plane

The control plane includes identity access controls as well as the use of network access control where it is the only/best option, such as legacy OT options

Tier 1 Split

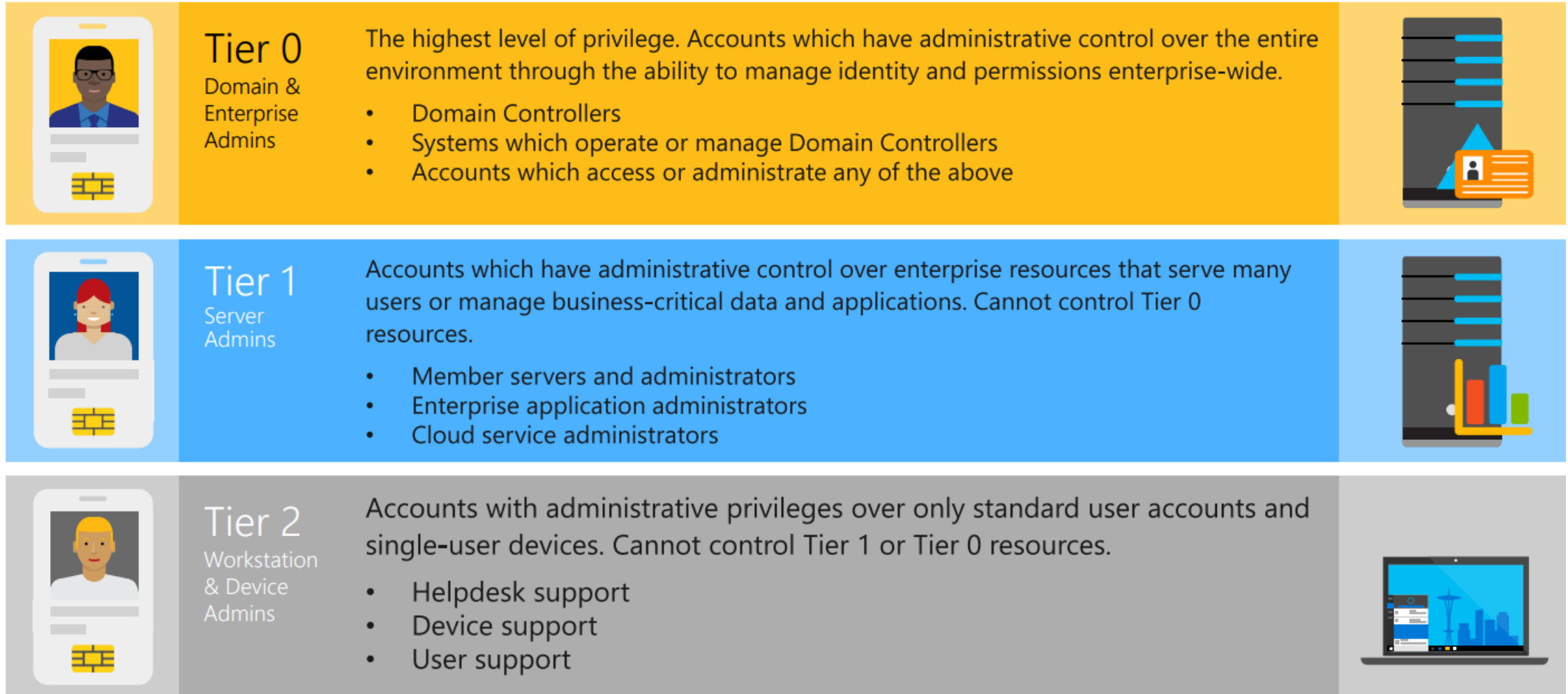
To increase clarity, actionability, and business focus:

- **Management Plane** – enterprise-wide IT management
- **Data/Workload Plane** – per-workload management focused on protecting business critical systems/data and accommodating DevOps

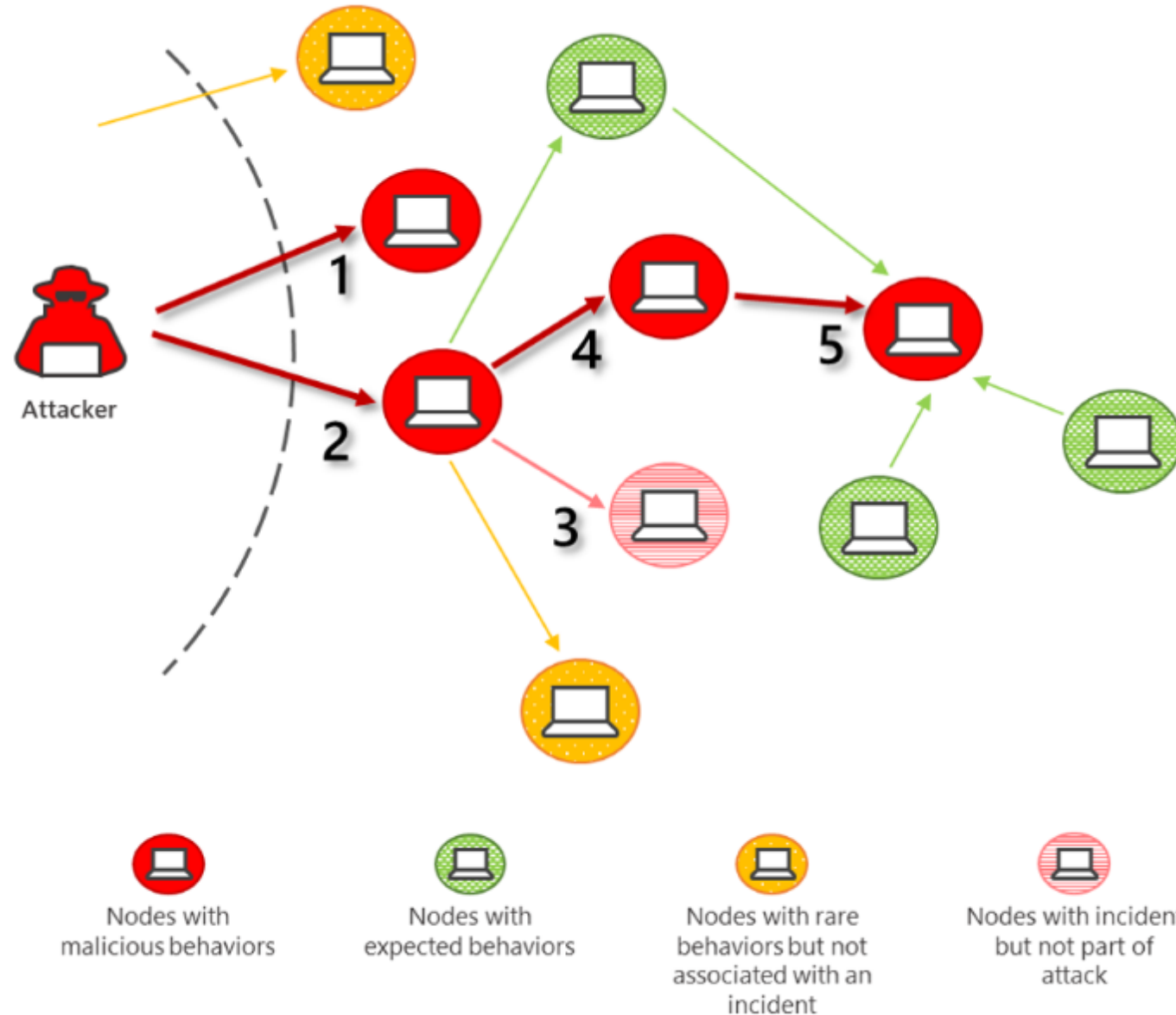
Tier 2 Split

- **User access** – now includes all B2B, B2C, and public access scenarios
- **App access** – to accommodate API attack surface

Active Directory Tier Model

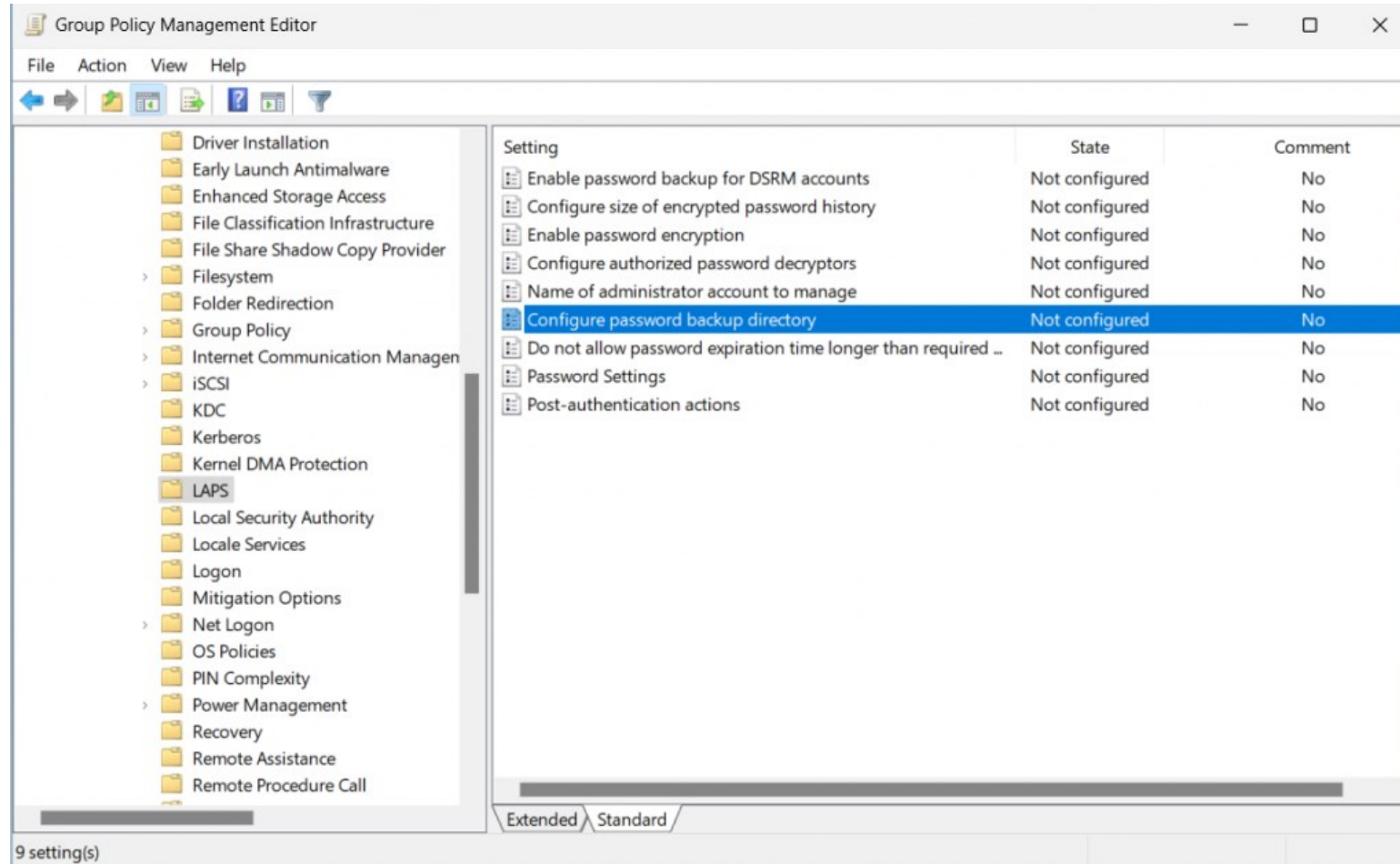


Prevent Lateral Movement



LAPS new features

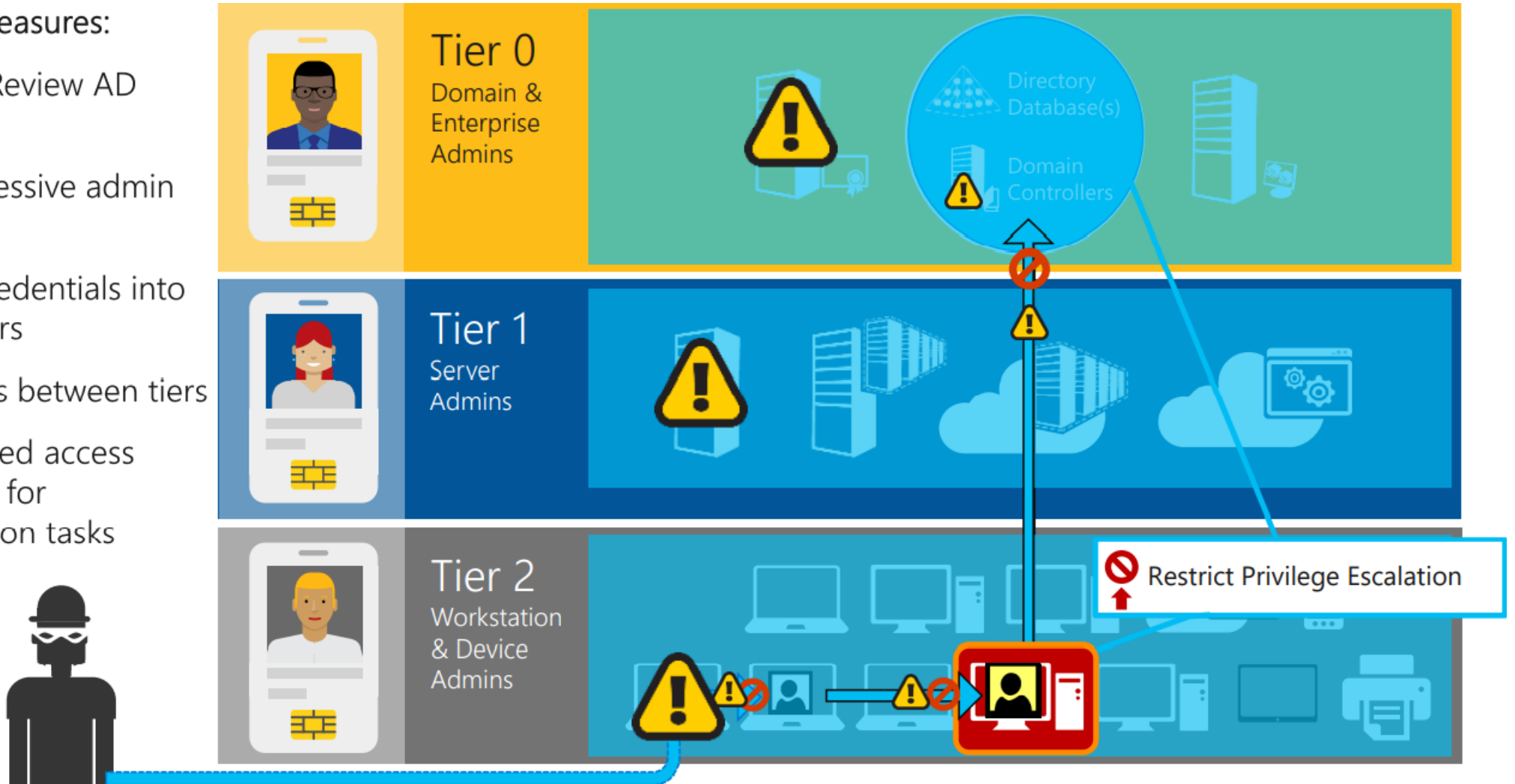
LAPS is now **Windows native** AND Microsoft is working on support for Azure Active Directory
Roadmap Features: AAD Join Device Support, password save choice (AD or AAD), Dedicated LAPS Tab on AD



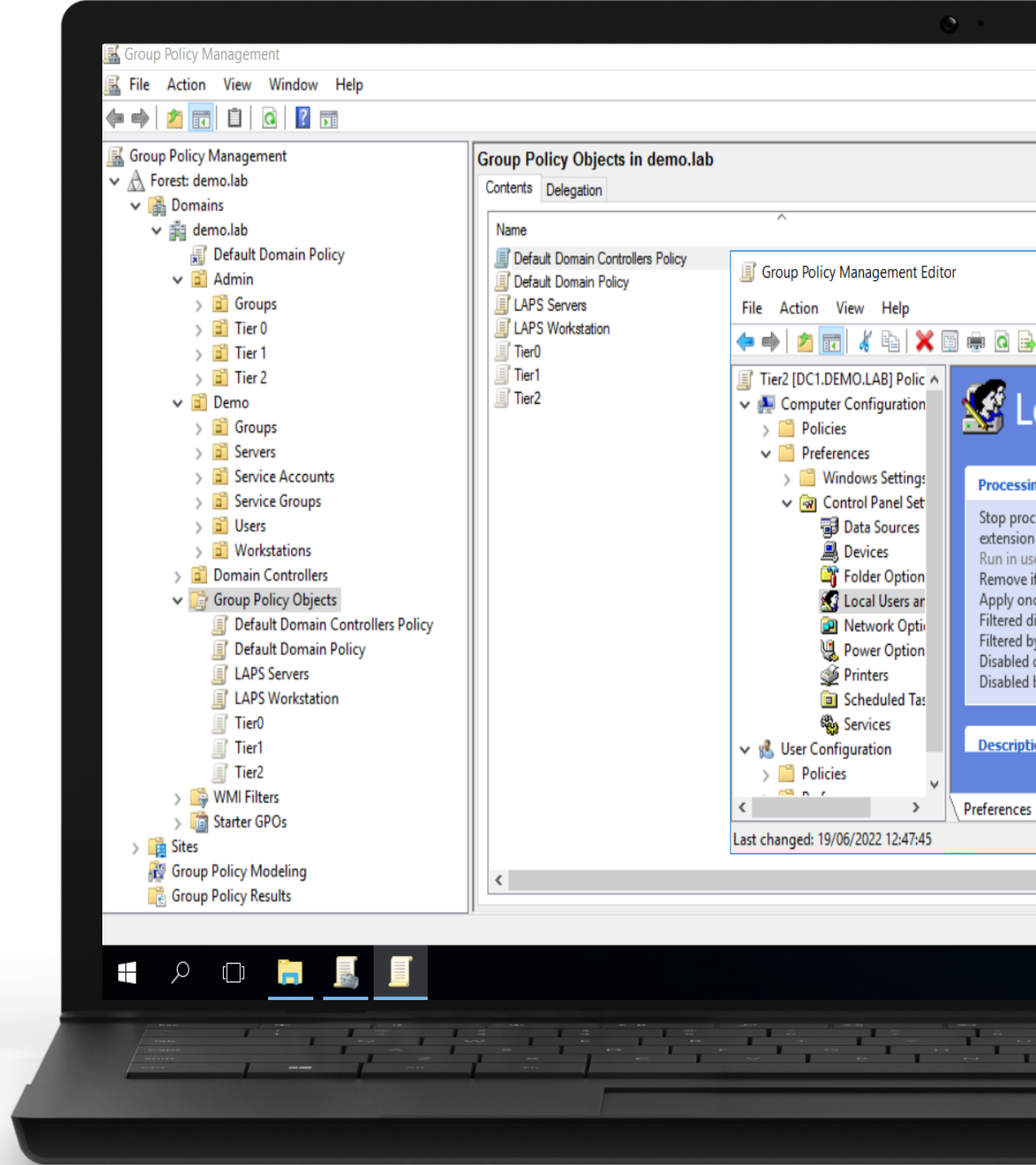
Prevent Privileged Escalation

Deployment Measures:

1. Analyze & Review AD Security
2. Reduce excessive admin privileges
3. Segment credentials into privilege tiers
4. Block access between tiers
5. Use privileged access workstation for administration tasks



DEMO



Grazie

Stefano Nieri

Senior Consultant – Project Informatica

Stefano.Nieri@project.it



[/snieri](#)



[/stefanonieri](#)