

# Zero Trust Model Adoption



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# ZERO TRUST MODEL

## OVERVIEW

The Zero Trust model is a security framework that requires all users and devices to be authenticated, authorized, and continuously validated before being granted access to applications and data, regardless of their location or network connection. It's based on the principle of "never trust, always verify."

## KEY PRINCIPLES



### **ASSUME BREACH**

Assume attackers can and will successfully attack anything (identity, network, device, app, infrastructure, data) and protect them accordingly.



### **VERIFY EXPLICITLY**

Protect assets against attacker by explicitly verifying that security decisions use all relevant available information and telemetry to grant access to company resources.

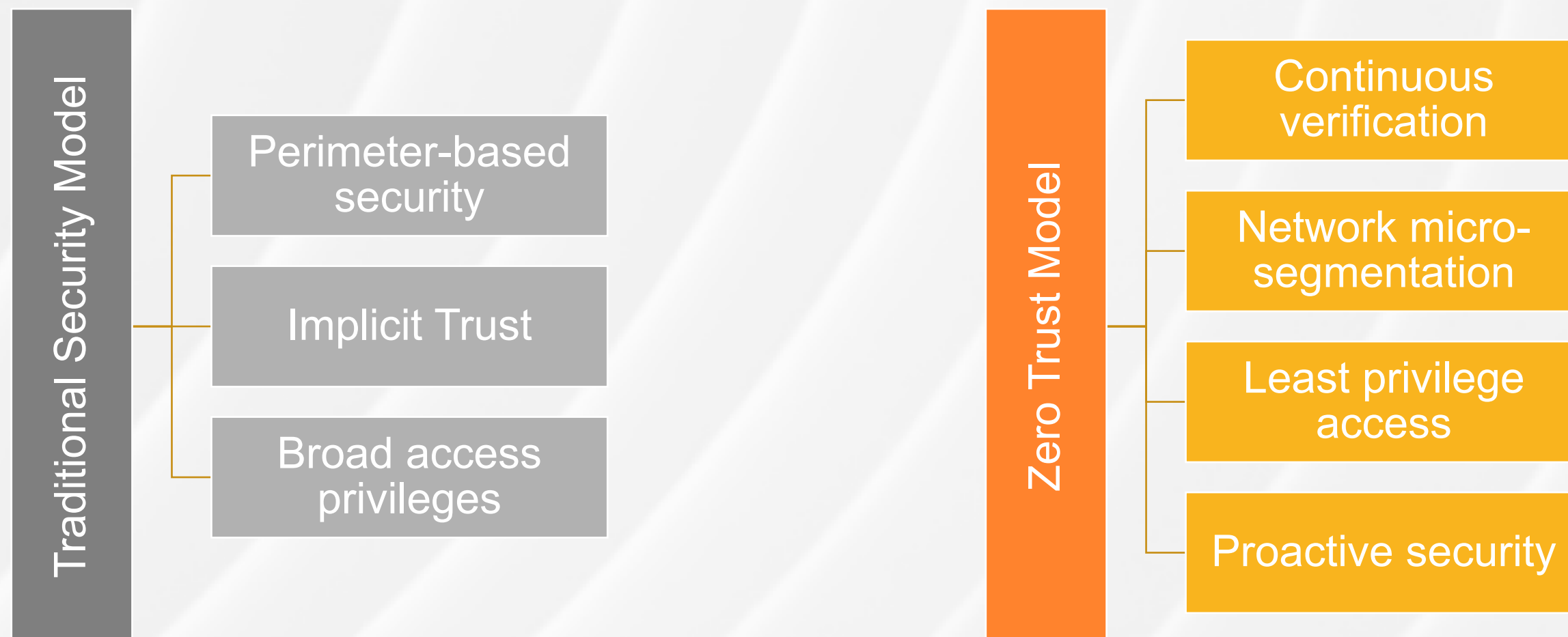


### **USE LEAST-PRIVILEGE ACCESS**







Limit user and application privileges with just-in-time and just-enough-access (JIT/JEA) and risk-based policies.

# ZERO TRUST MODEL

## TRADITIONAL SECURITY MODEL vs ZERO TRUST MODEL

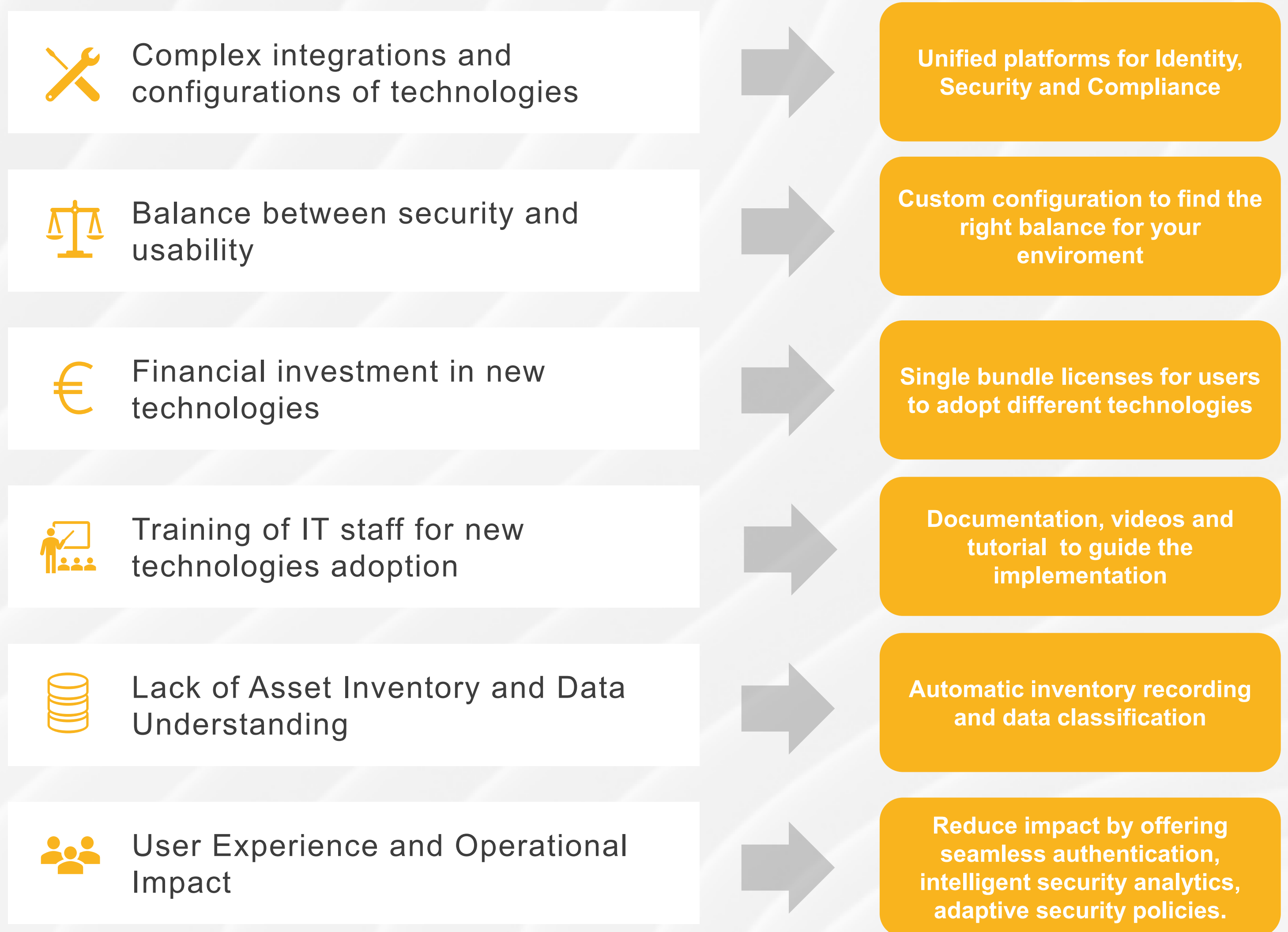


## MOST COMMON CHALLENGES FOR ZERO TRUST ADOPTION

 Complex integrations and configurations of technologies	 Training of IT staff for new technologies adoption
 Balance between security and usability	 Lack of Asset Inventory and Data Understanding
 Financial investment in new technologies	 User Experience and Operational Impact

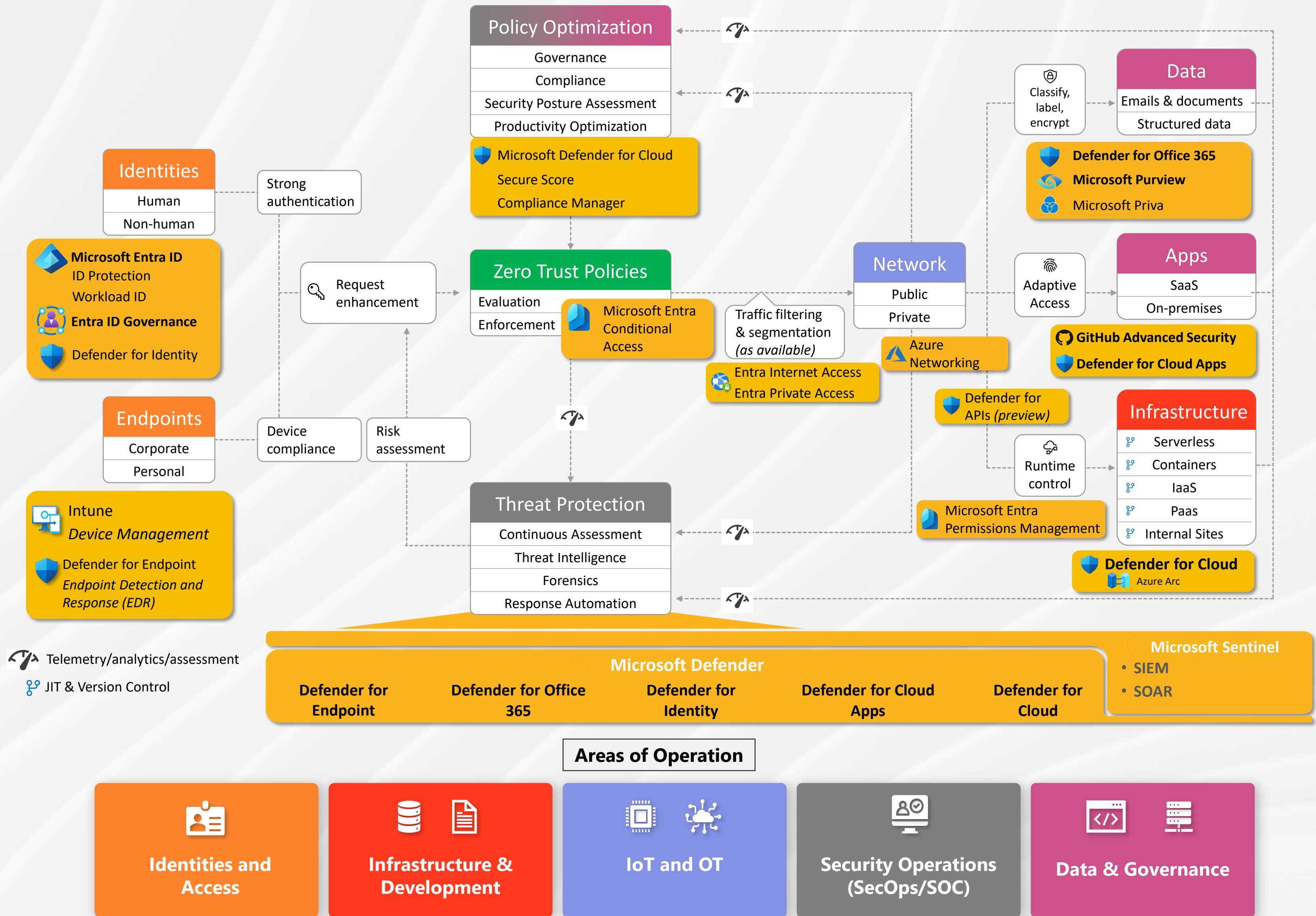
# CHALLENGES

## HOW MICROSOFT HELPS TO ADDRESS ZERO TRUST ADOPTION CHALLENGES



# ARCHITECTURE

## MICROSOFT TECHNOLOGIES



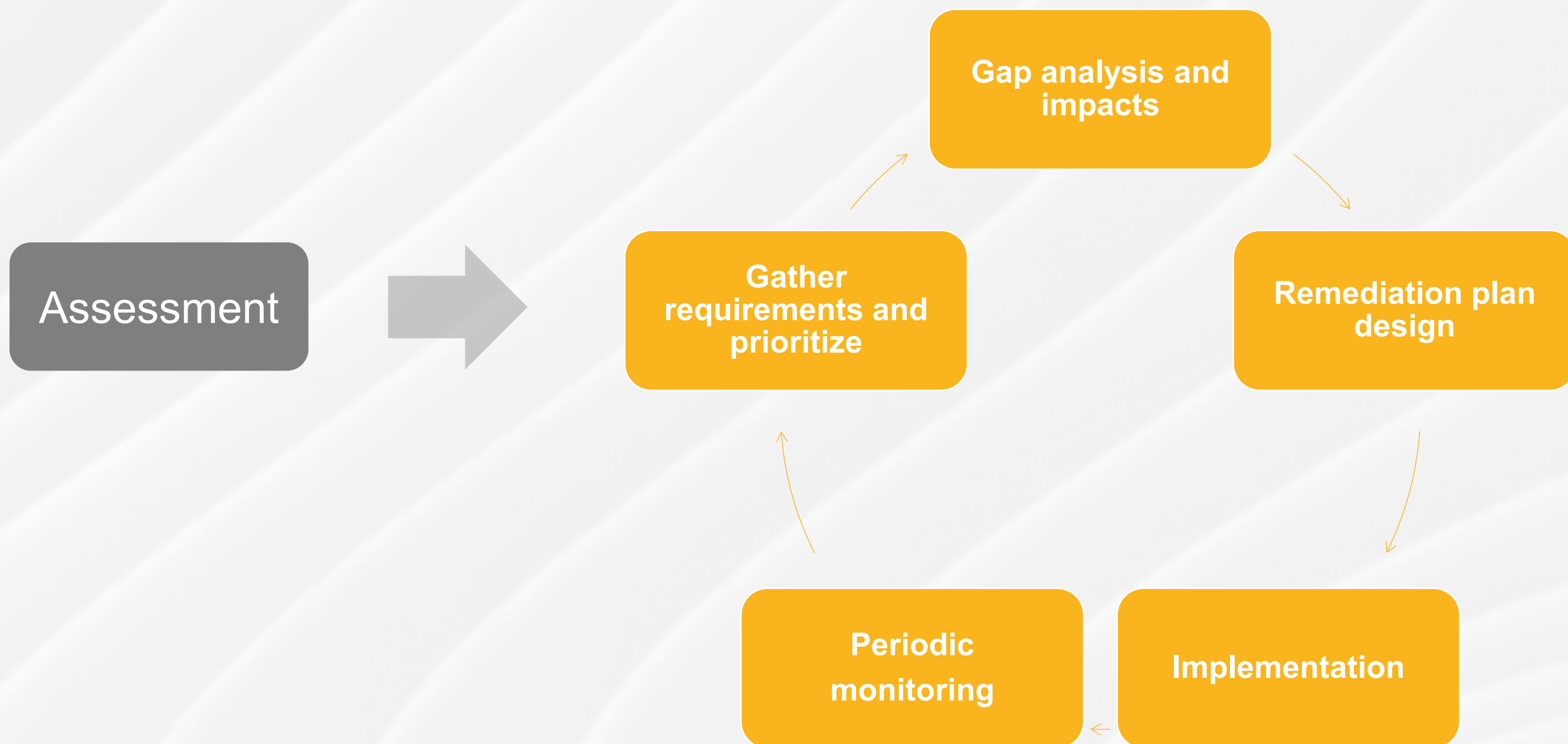
# ADOPTION STRATEGY



## HIGH-LEVEL PLAN

Adoption of Zero Trust Model requires a structured approach and a well-defined adoption plan since from the first phases (environment assessment) continuing with a remediation plan design and implementation.

## ADOPTION PATH



# CONCLUSIONS

The Zero Trust model offers a paradigm shift in security, prioritizing continuous verification and least privilege access. By adopting a Zero Trust approach, organizations can significantly enhance their security posture and mitigate the risks associated with traditional security models.

## KEY TAKEAWAYS

Zero Trust is a fundamental shift

It challenges the traditional perimeter-based security model.

Continuous verification is crucial

Constantly validate user identities and device health.

Least privilege access is essential

Grant only necessary permissions to users and applications.

Micro-segmentation is vital

Divide the network into smaller segments to limit the impact of breaches.

Proactive security is essential

Implement robust monitoring and threat detection mechanisms.



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