

# Adopting a Zero-Trust Mindset to Deliver Security from PCI DSS Compliance

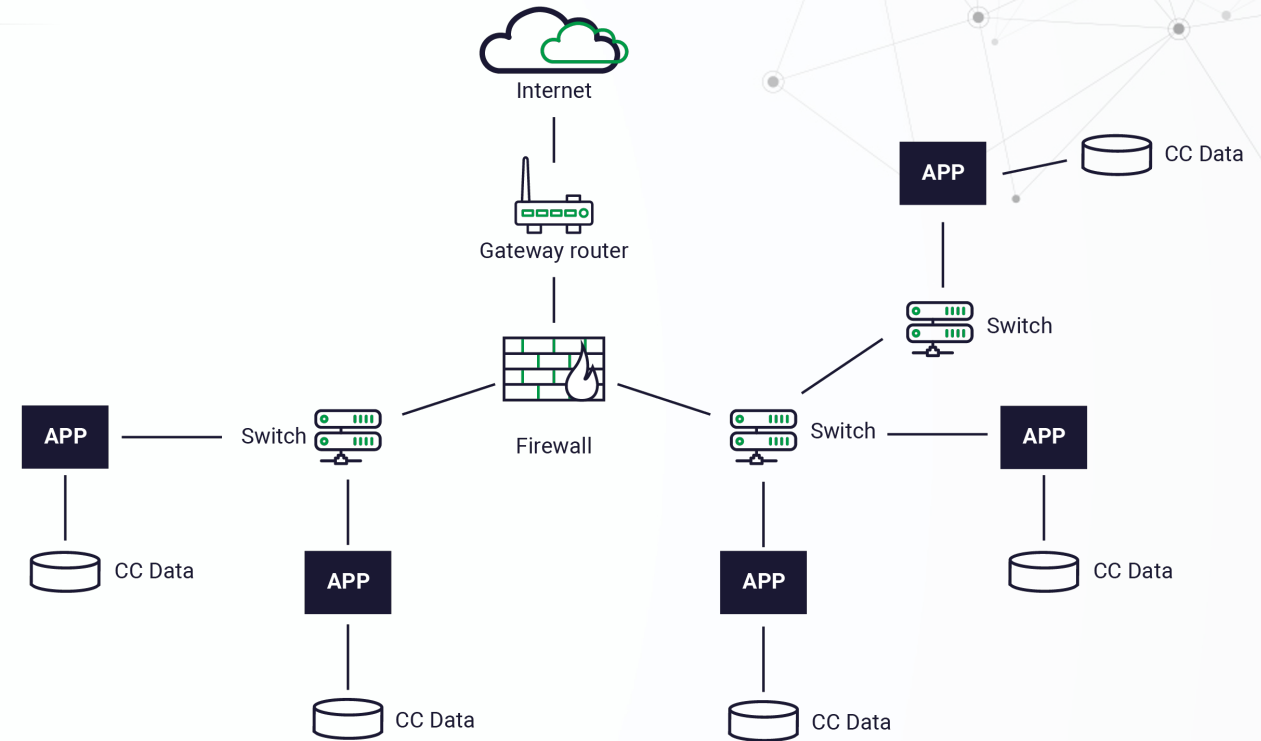
Phil Lewis, CEO

Titania



# This Session

- Best Practices in Network Security
- PCI DSS v4.0 - Leading the Way
  - Effective segmentation
  - Risk Assessments
  - Avoiding sampling where automation allows
  - Security as a continuous process
- The Value of adopting a Zero Trust Mindset
- Continuous PCI DSS Compliance
- Key Takeaways



# The Challenge

● Achieving greater security from consistent compliance

74%

- Targeted by payment fraud attack
- Source: Association for Financial Professionals

\$5.27m

- Average total cost of cyber breaches in financial services
- Source: IBM

43.4%

- Maintained full compliance with PCI DSS
- Source: Verizon

# The Problem With Perimeter-only Defenses



Switches and routers are just as important to network security

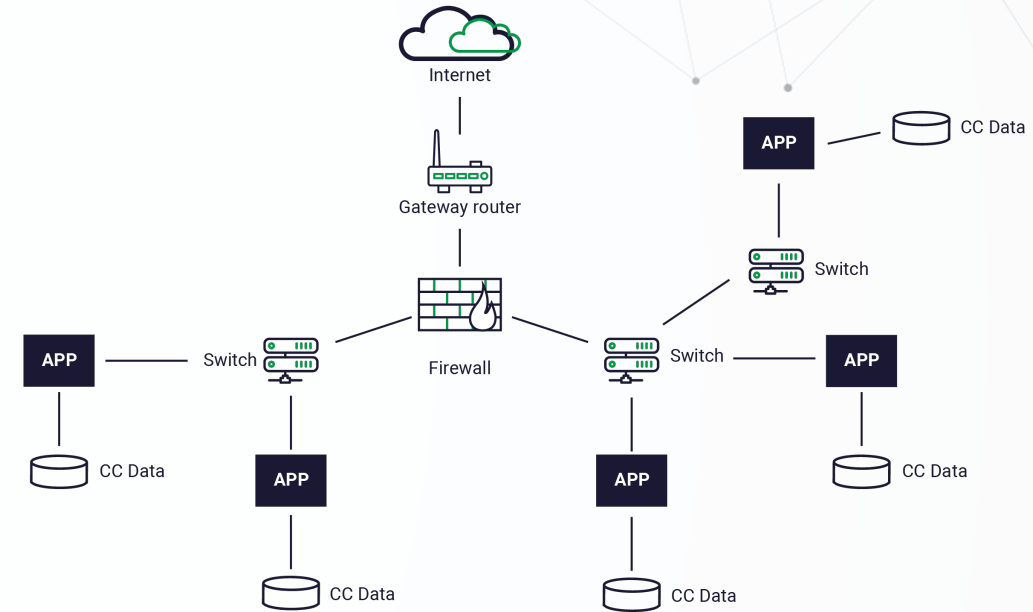
“Firewalls can’t solve today’s most urgent security priorities. After all, more than 80 percent of network traffic is inside the perimeter.”

Guardicore Centra / Forrester

# Network Security Best Practices

Best practices in network security – in the CDE and beyond

1. Segment the network to prevent lateral movement
2. Secure the perimeter and risk assess devices inside the perimeter too
  - Secure switches and routers to minimise impact from insider threat – from software, people, traffic
3. Verify, don't trust that devices maintain a secure configuration



# PCI DSS v4.0 Leading the Way



Major change in standards to deliver security from compliance

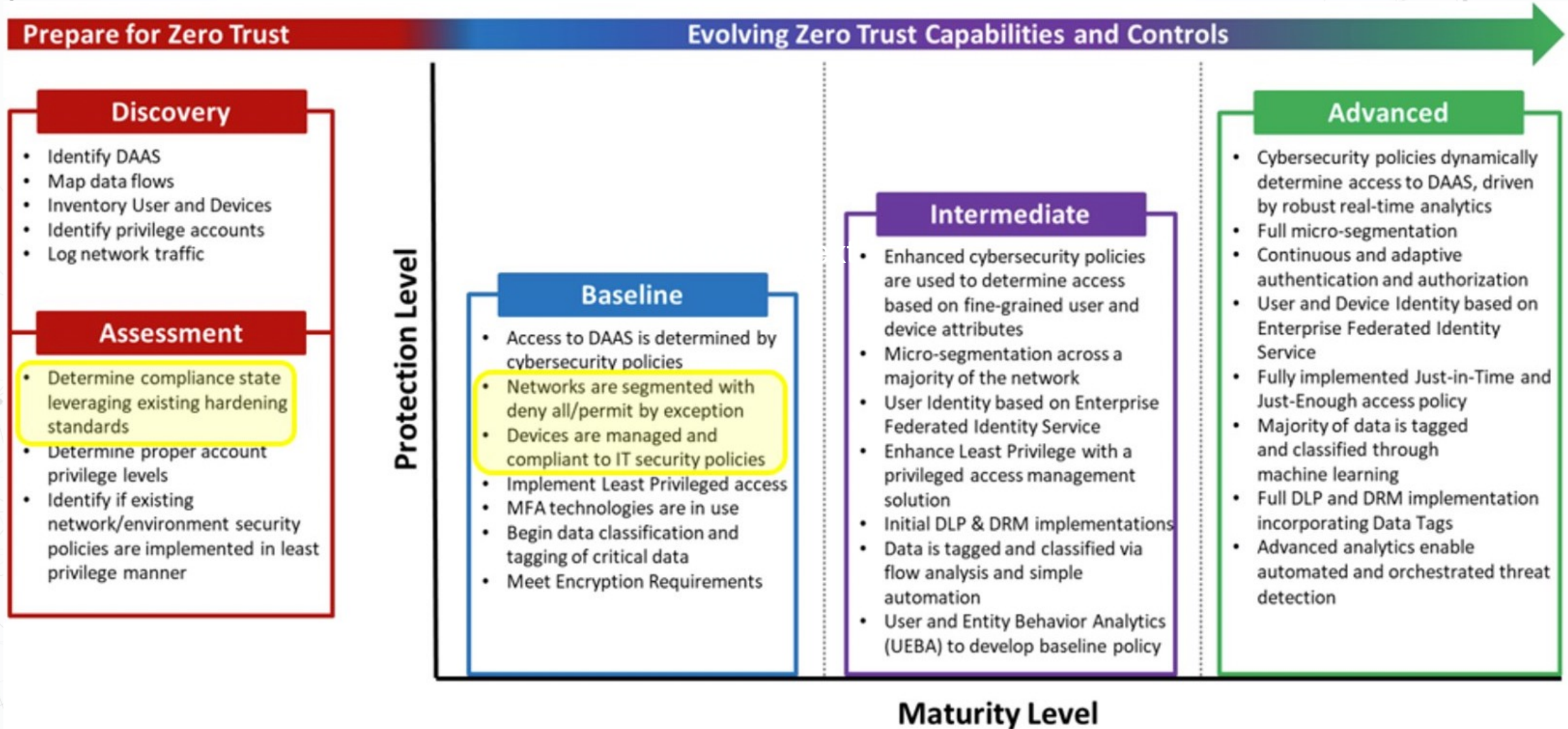
## PCI DSS 4.0

1. Meet the security needs payment industry
2. Promote security as continuous process
3. Add flexibility for different methodologies
4. Enhance validation methods

## Zero Trust Best Practices:

- ✓ Effective network segmentation
- ✓ Risk assessments inform policy enforcement cadence
- ✓ Leverage automation to automate auditing of every device/asset
- ✓ Risk prioritized mitigation

# Adopting a Zero Trust Mindset

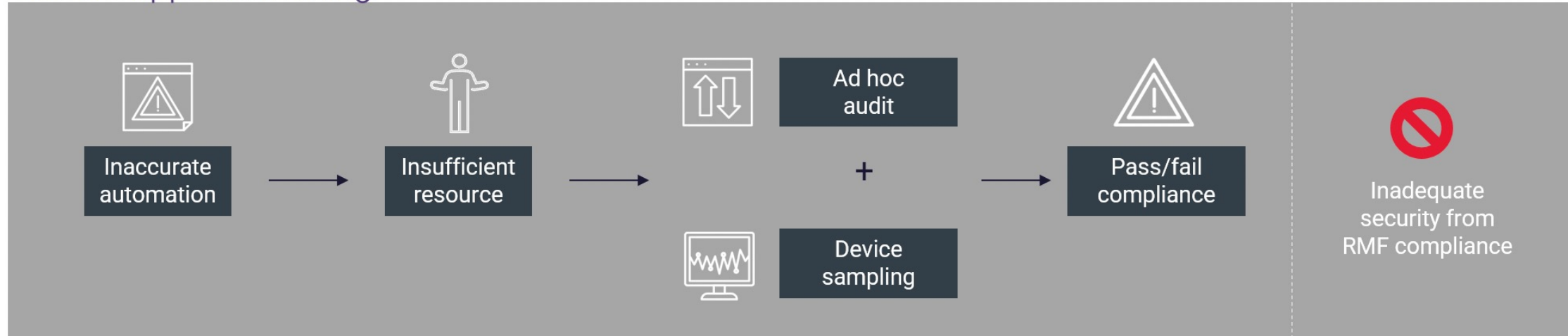


# Security as a Continuous Process



Configuration Drift

Current approach failing:

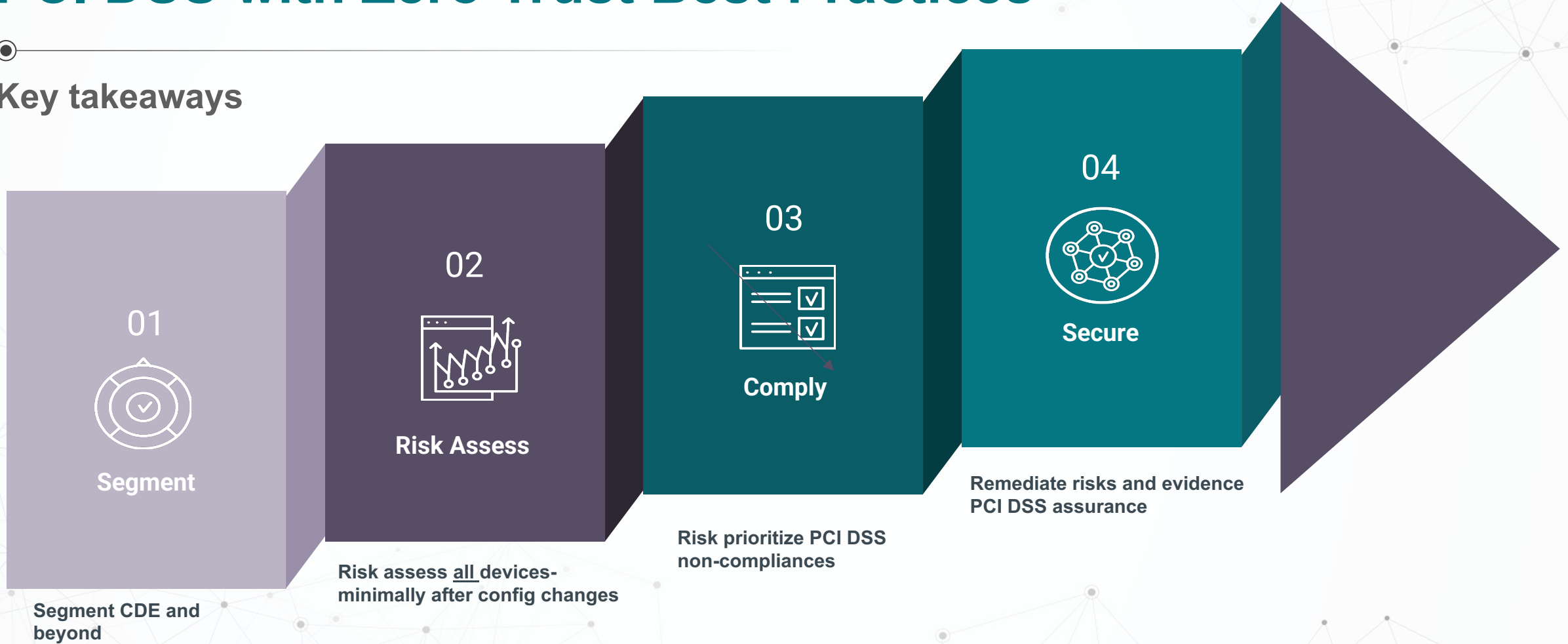


Best practice continuous approach required:



# PCI DSS with Zero Trust Best Practices

## Key takeaways



Adopt a Zero Trust mindset, invest in accurate automation, prioritize remediation by greatest risk and fix all that you find



Stand 12

**THANK YOU**

**PLEASE DIRECT ANY QUESTIONS TO...**

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<https://info.titania.com/network-security-impact-report>