

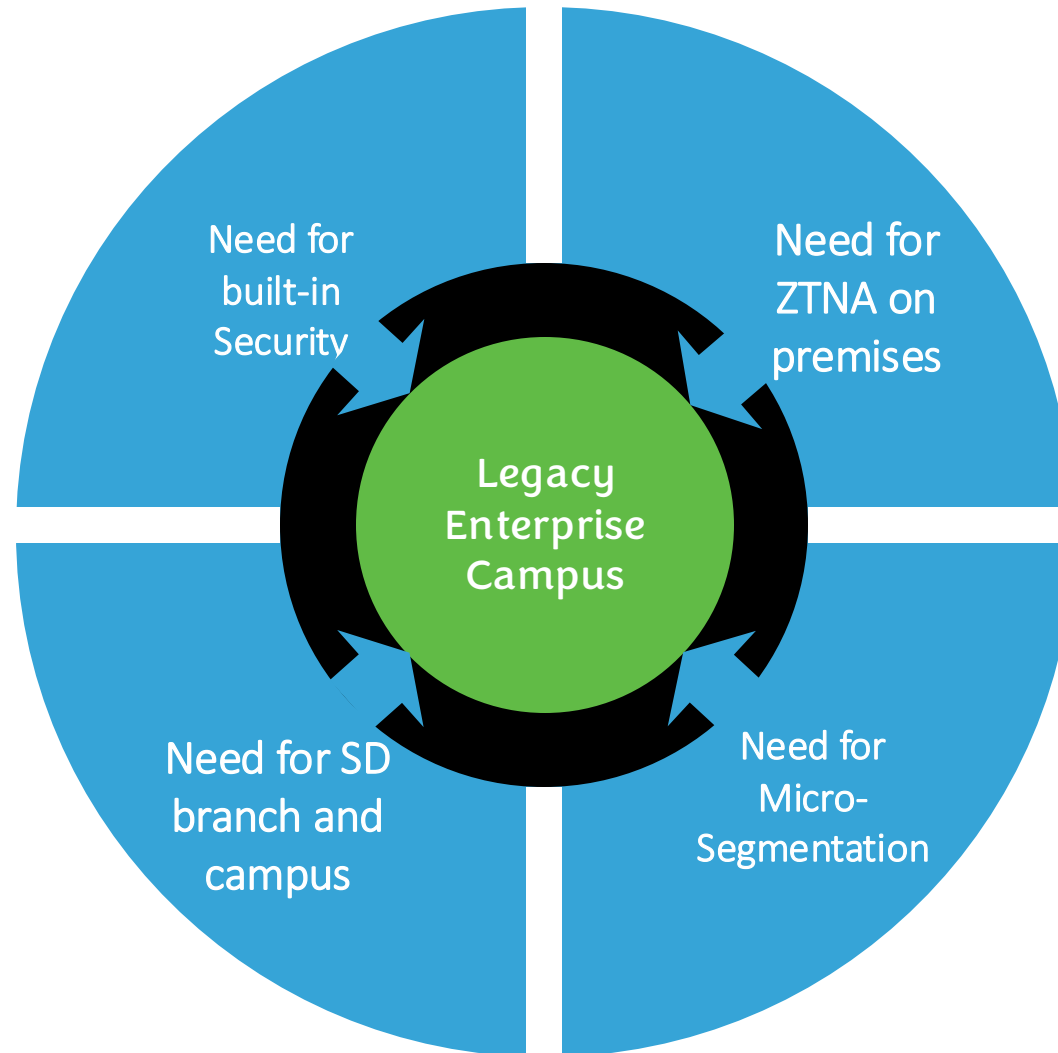
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From Concept to Reality: Achieving On-Premises
Zero Trust with ZTNA, IoT Security, and Beyond

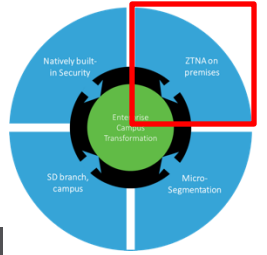


Road to ZTNA

Forces of Change on Legacy Enterprise Campus



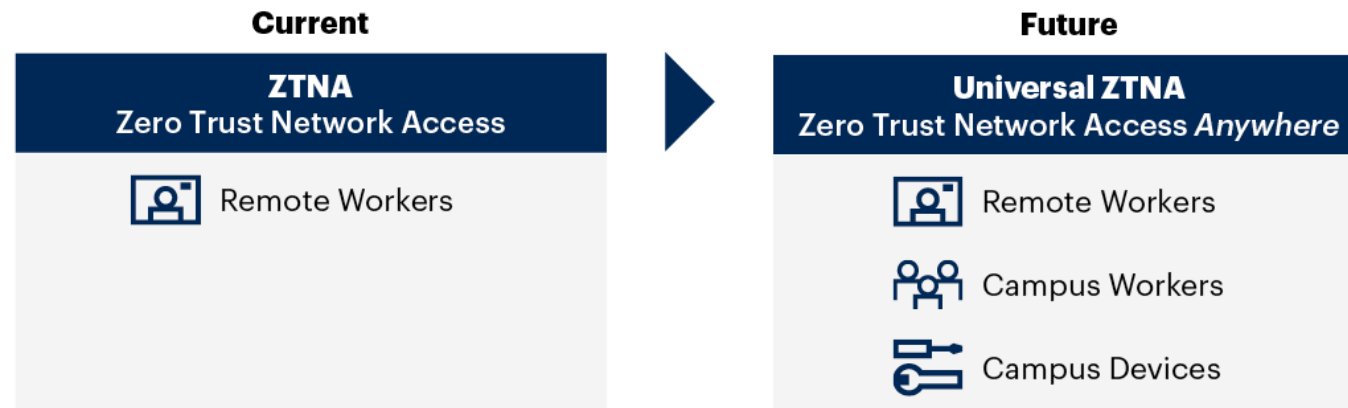
Gartner Observing Adoption for ZTNA Anywhere



"Gartner believes evolving existing ZTNA products to secure campus/branch environments better aligns with the future work pattern and zero trust principles and simplifies the operation and administrative burden to manage the solution"

Campus Network Security and NAC are Ripe for Market Disruption, March 2022

From Zero Trust Network Access to Universal Zero Trust Network Access



Source: Gartner
764413_C

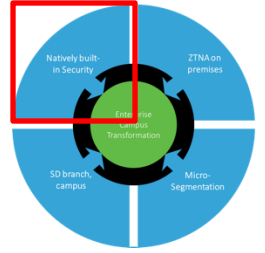
Gartner.

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Limitations of Legacy Solutions for on-prem Users



Missing Security

No / weak security built-in

- Need a true Software Defined Security Perimeter (SDSP)
- Separate set of firewall functions (firewall appliances) get applied much later in the network
- No protection built-in E-W direction



Layer-2 limitations

Limitations at the Enterprise LAN

- Lack of multi-active paths, slow convergence, legacy technology
- Lots of proprietary technologies to address shortcomings



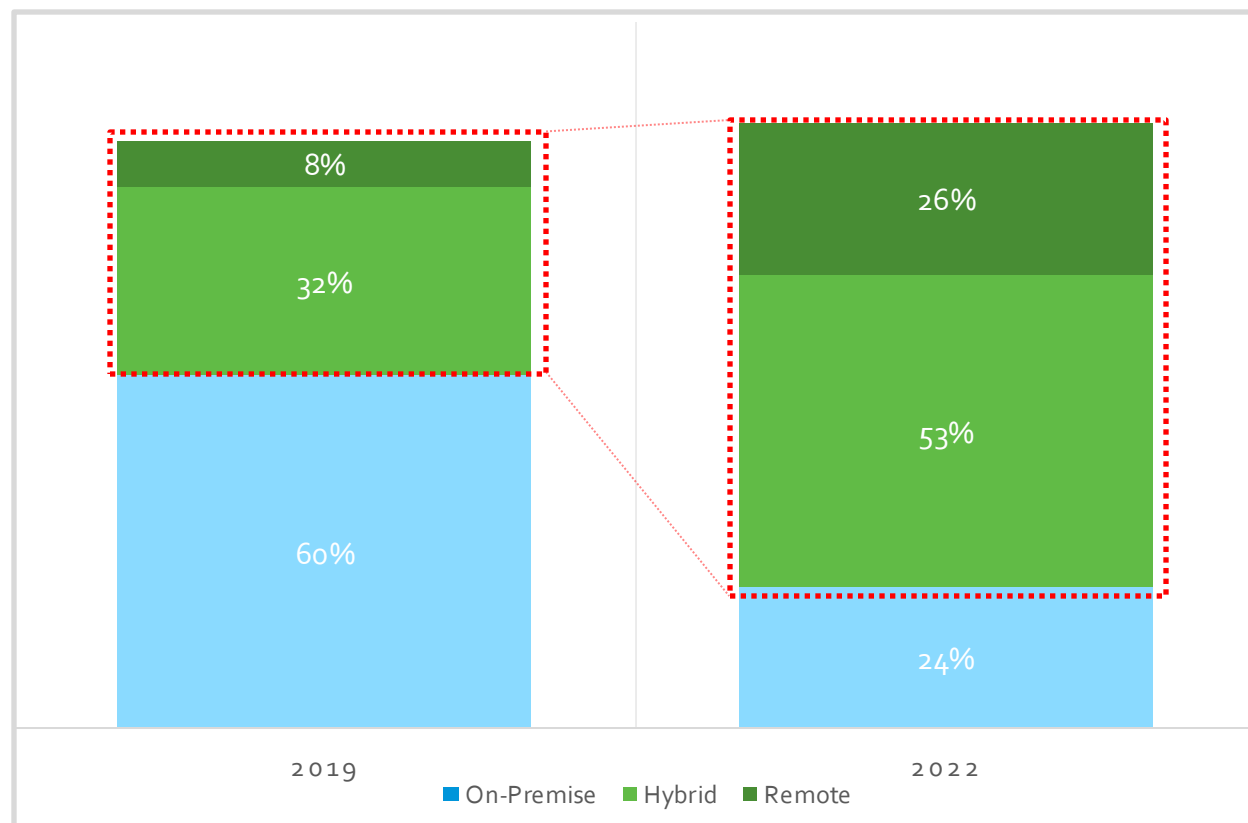
Siloed Solutions

Switching, WLAN, WAN Edge, Security, IoT

- Separate management, configurations, policy, analytics
- Complex to deploy, manage, operate, deal with interop issues
- Inconsistencies and Security Gaps

Where and how we work has changed

Work is no longer a place, and everything is collaborative



US WorkforceTrend (Statista, Jan 2023)

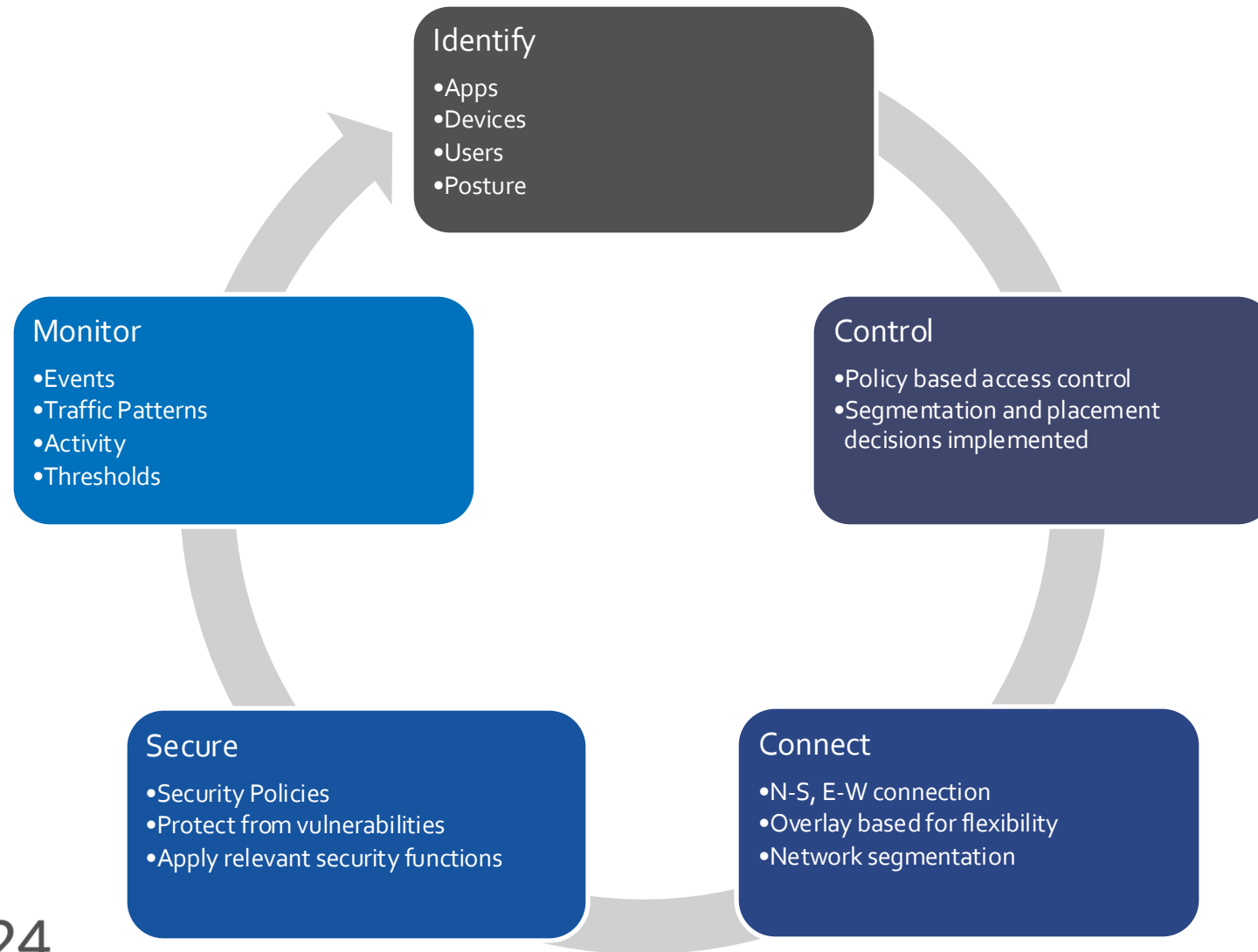
Versa ZTNA solution

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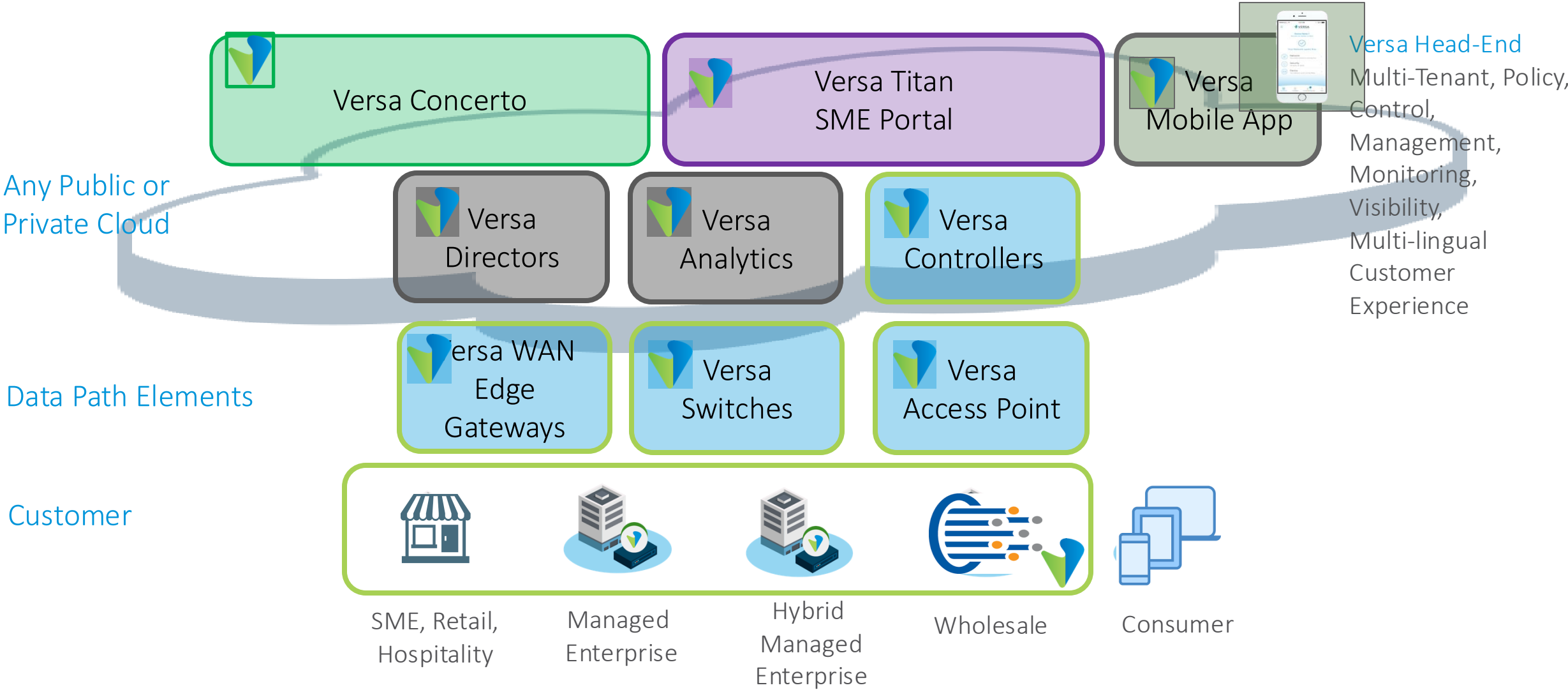
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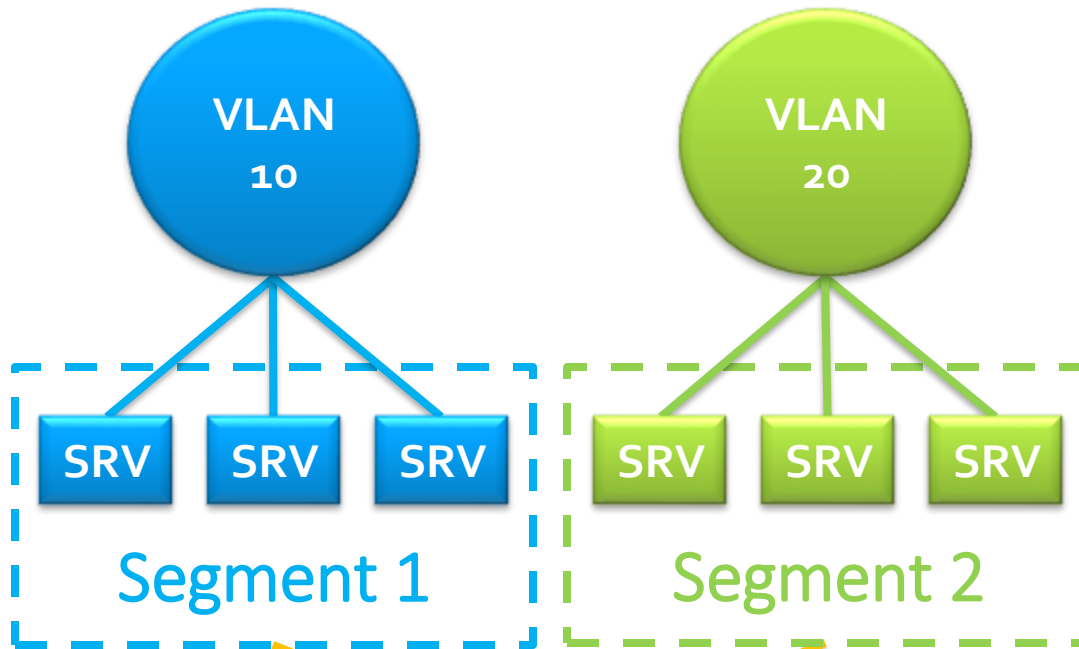
Versa ZT-LAN Solution Operates in 5 Interwoven Steps



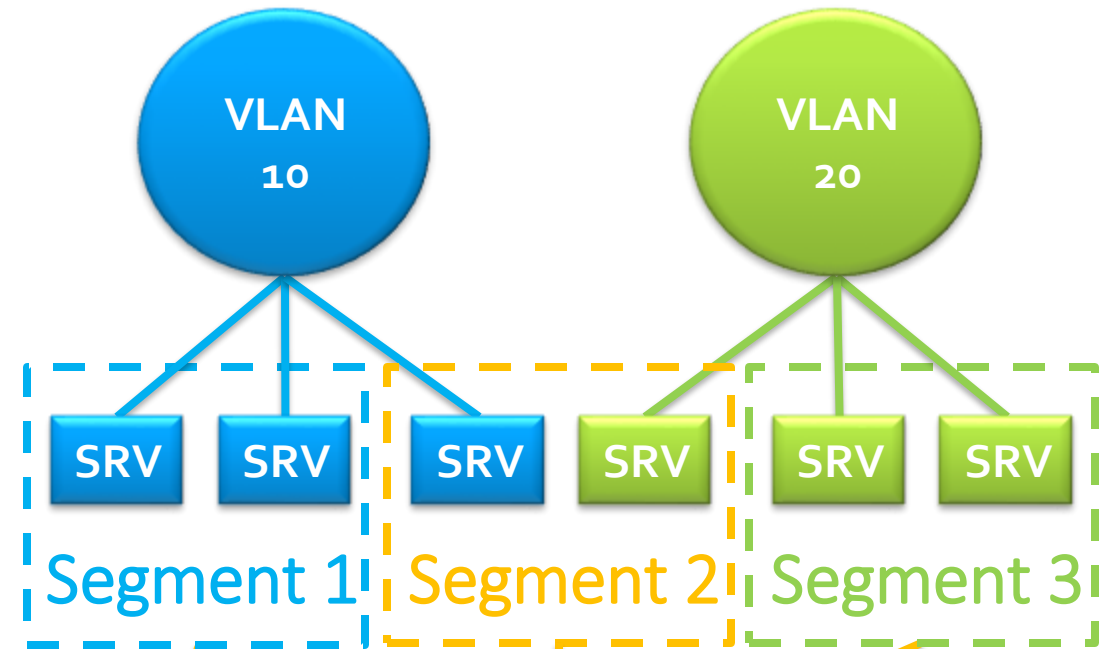
Versa SD-LAN Solution Components



Segmentation vs Micro-Segmentation



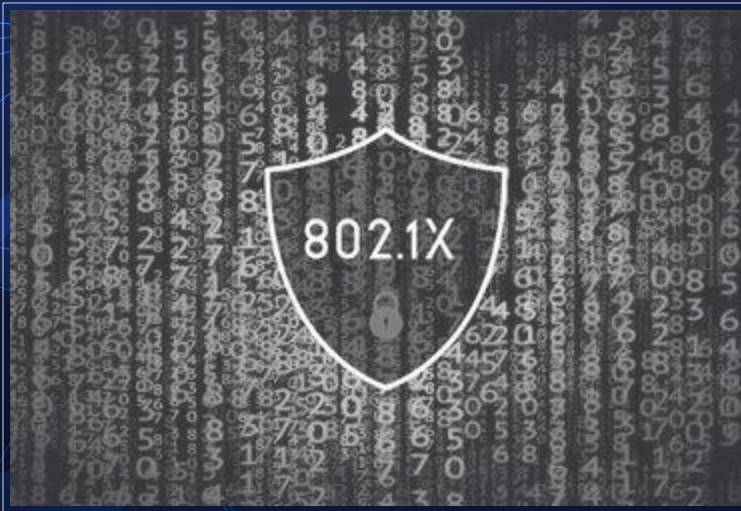
Traditional
Segmentation



MicroSegmentation

Clientless ZTNA

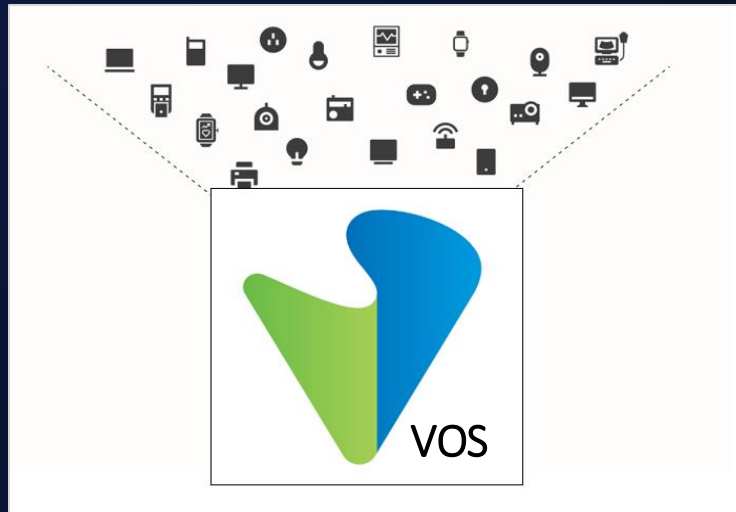
- 802.1X NAC



- Certificate based client device authentication
- RADIUS backed – rich interop options
- Ability to place clients in respective microsegments
- Single supplicant, multiple supplicant profiles per port

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- Device Fingerprinting (Dev-ID)



- Inline Analysis of traffic flows for IoT (and Corporate, BYOD/personal) devices
- Device Fingerprint DB – Layer 2 to Layer 7
- Low Latency Rule-based Engine
- Match based on device class for consumption of policies, analytics, and others

- User & Group Access Control



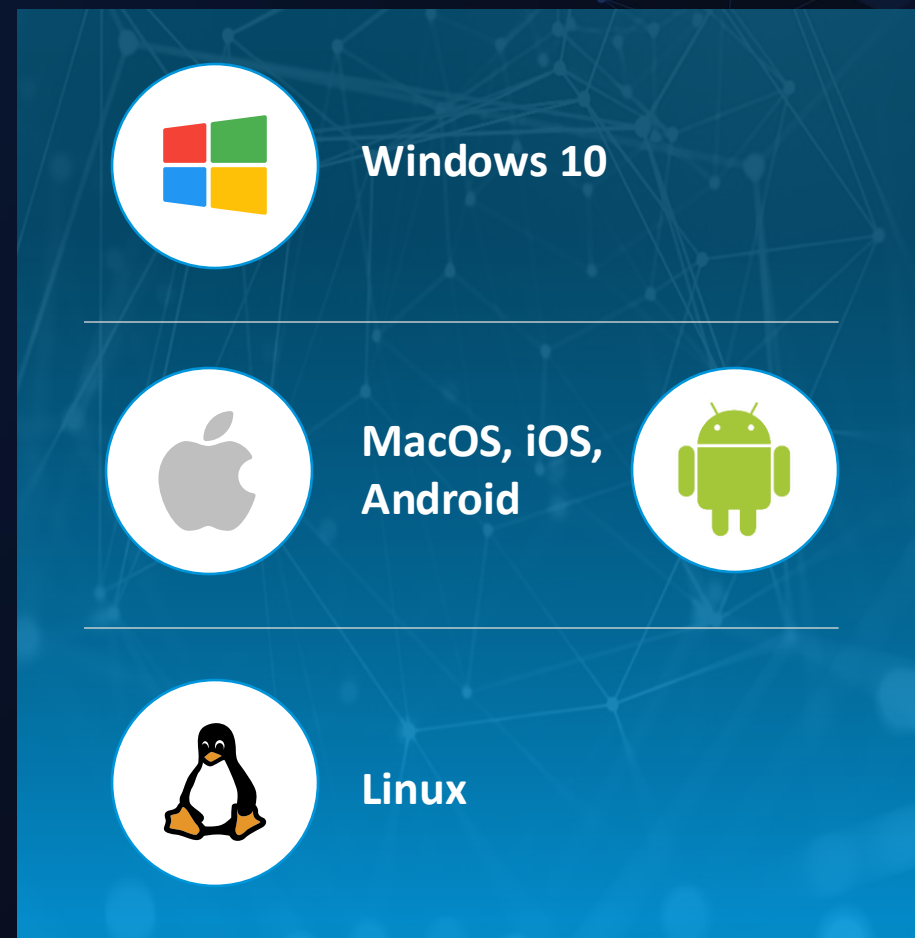
- User authentication via common IdP services or via Enterprise's own Active Directory
- Captive Portal or Passive/Inline User Authentication
- User Group policies
- Network access criteria, user policies based on user/group credentials



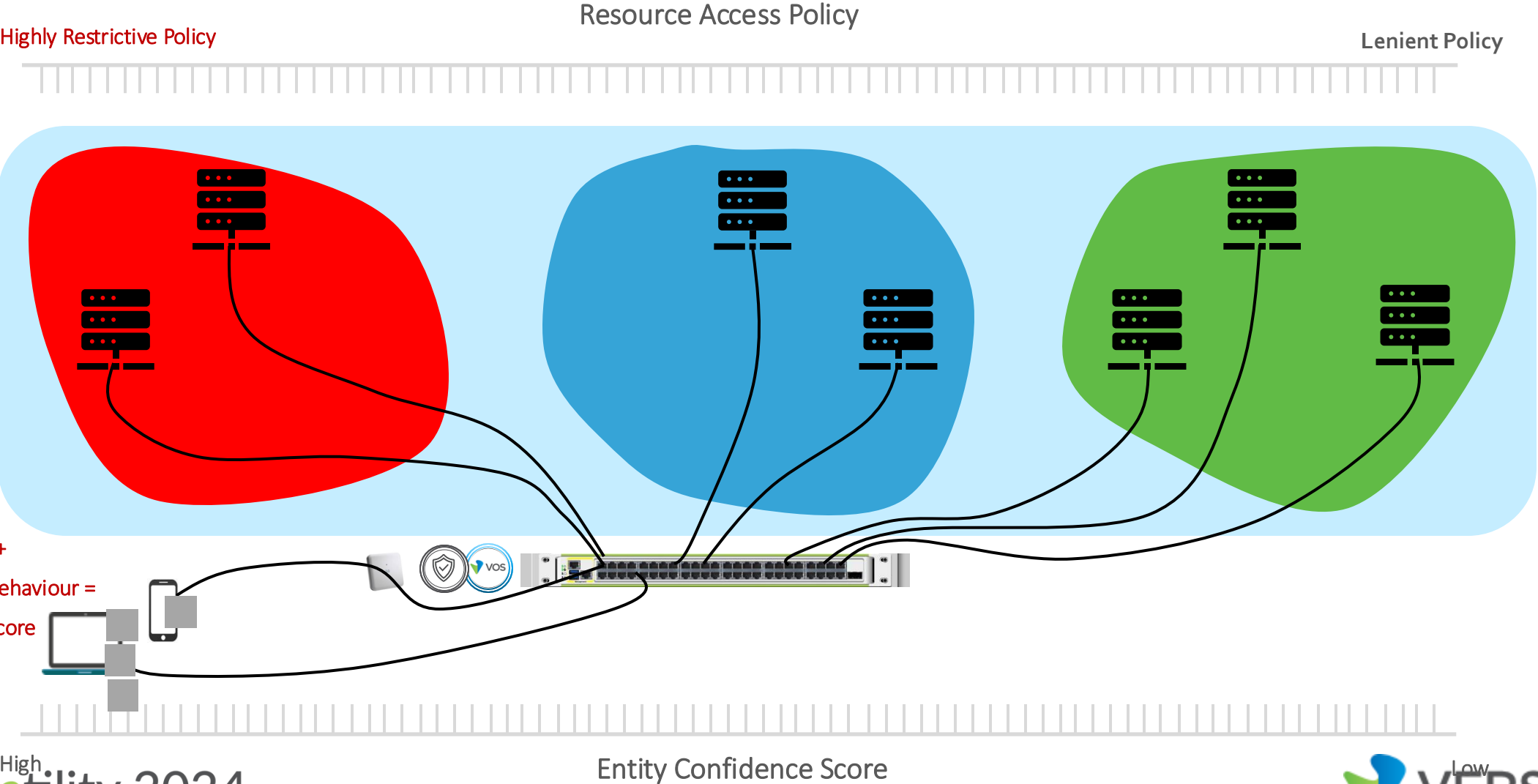
Client based ZTNA

- ✓ **Facilitating connectivity and End-Device Profile Check**
 - User and device authentication
 - Connects to nearest VOS instances on-prem
- ✓ **End-Point (device) Information Profile (EIP) selection based on**
 - AV engine version, signature db version running on the End-Point
 - OS type & version, Security Patch versions
 - Corporate or personal device
 - Specific software installed or not
 - Disk encryption and other parameters
- ✓ **Policy application starting from client devices**
 - Compliance check
 - Traffic Steering via SASE Client
- ✓ **EIP based Policy Enforcement**
 - Implemented on the nearest VOS platform
 - Inline, high performance traffic processing
 - Managed via network and security policies
 - Reported on Versa Analytics

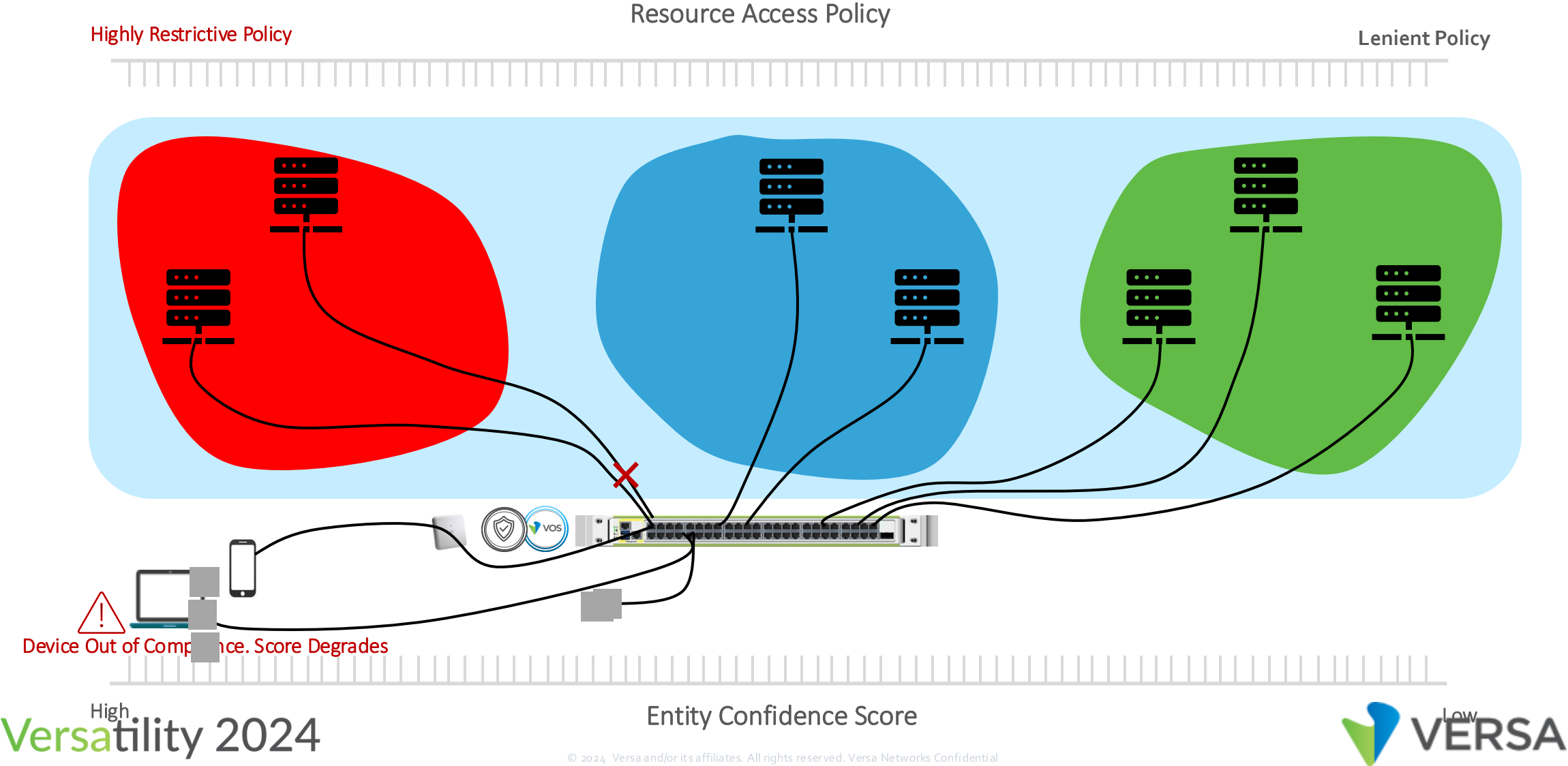
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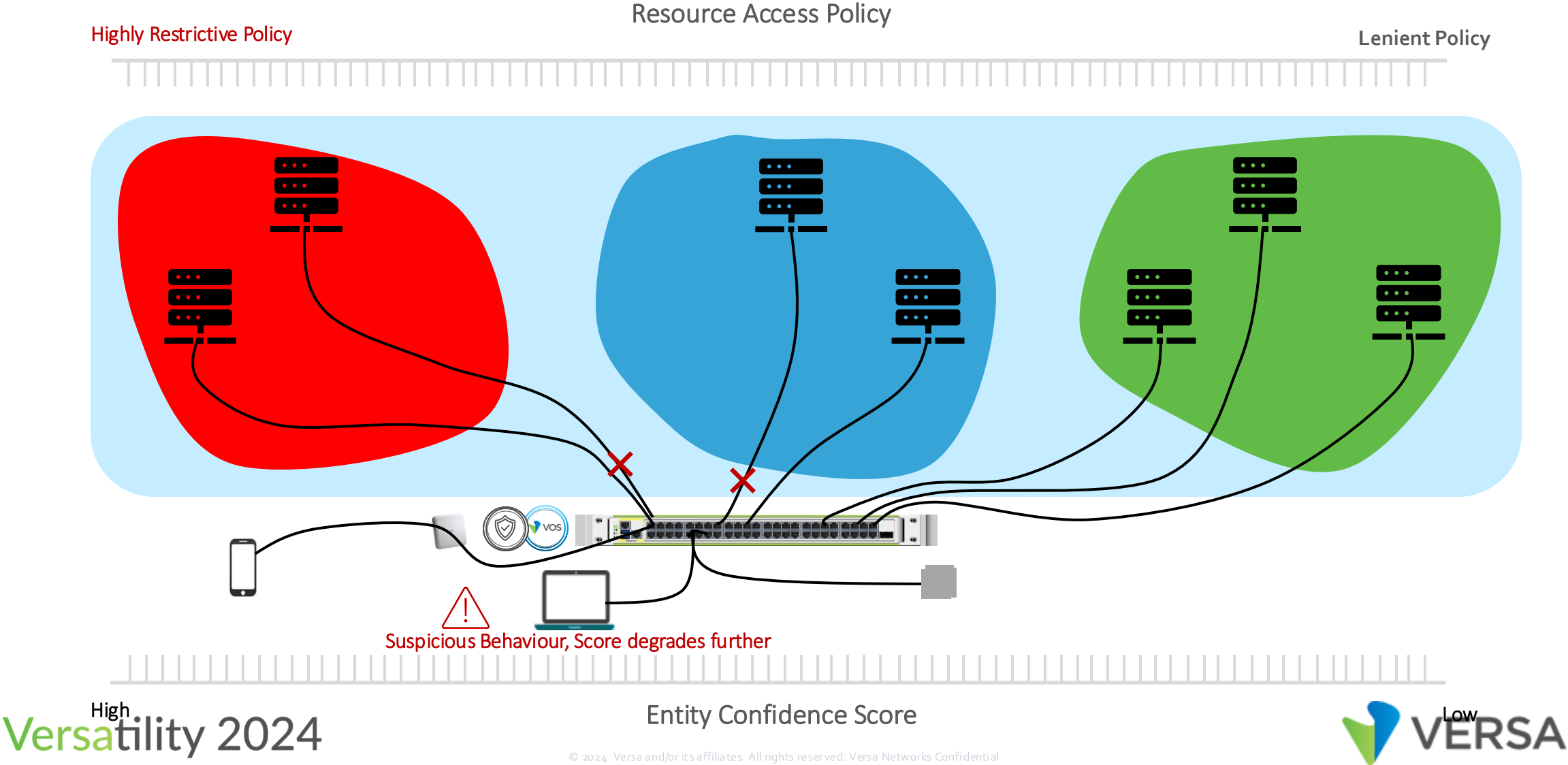
Adaptive Micro-segmentation based on entity confidence score



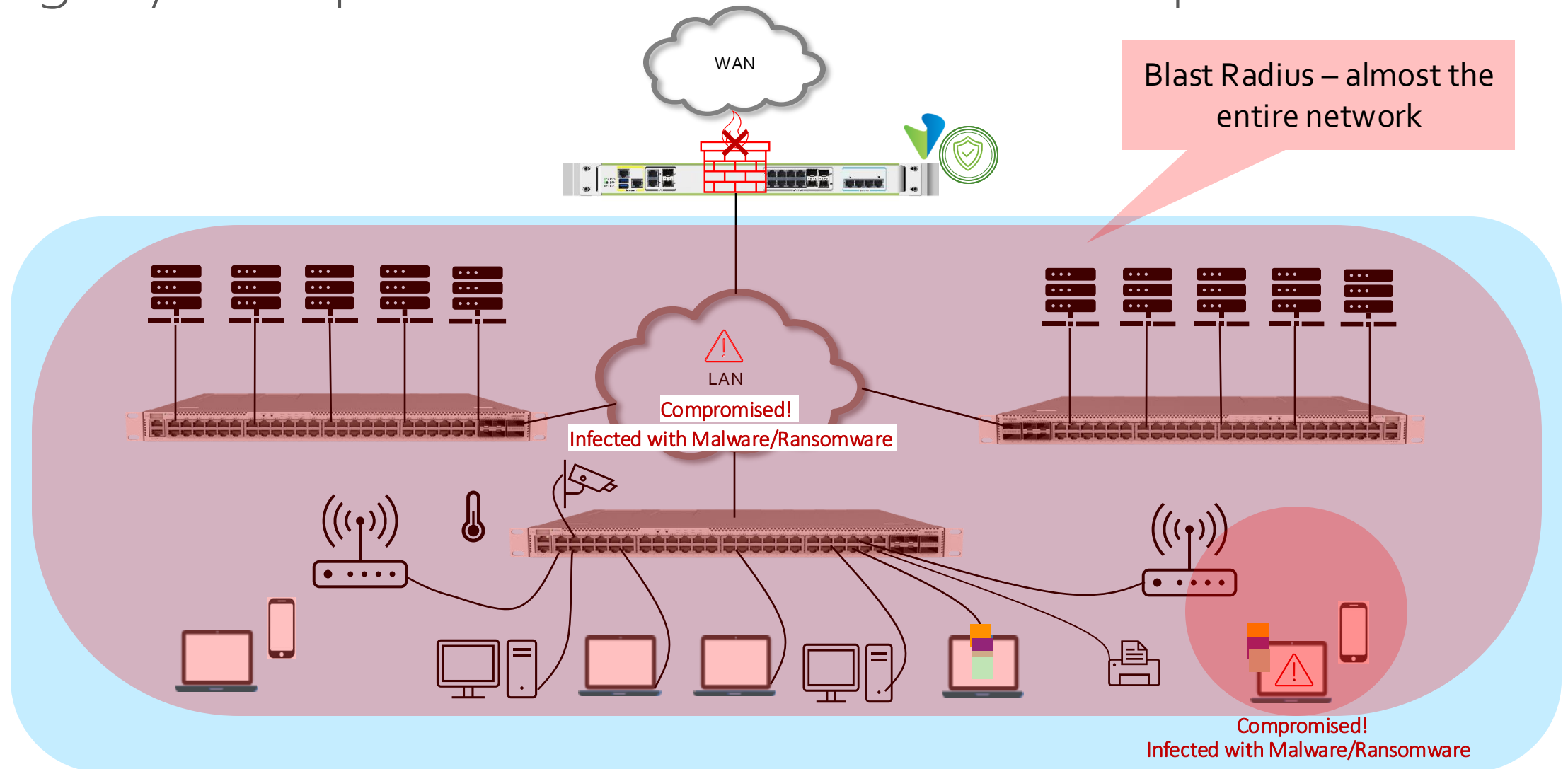
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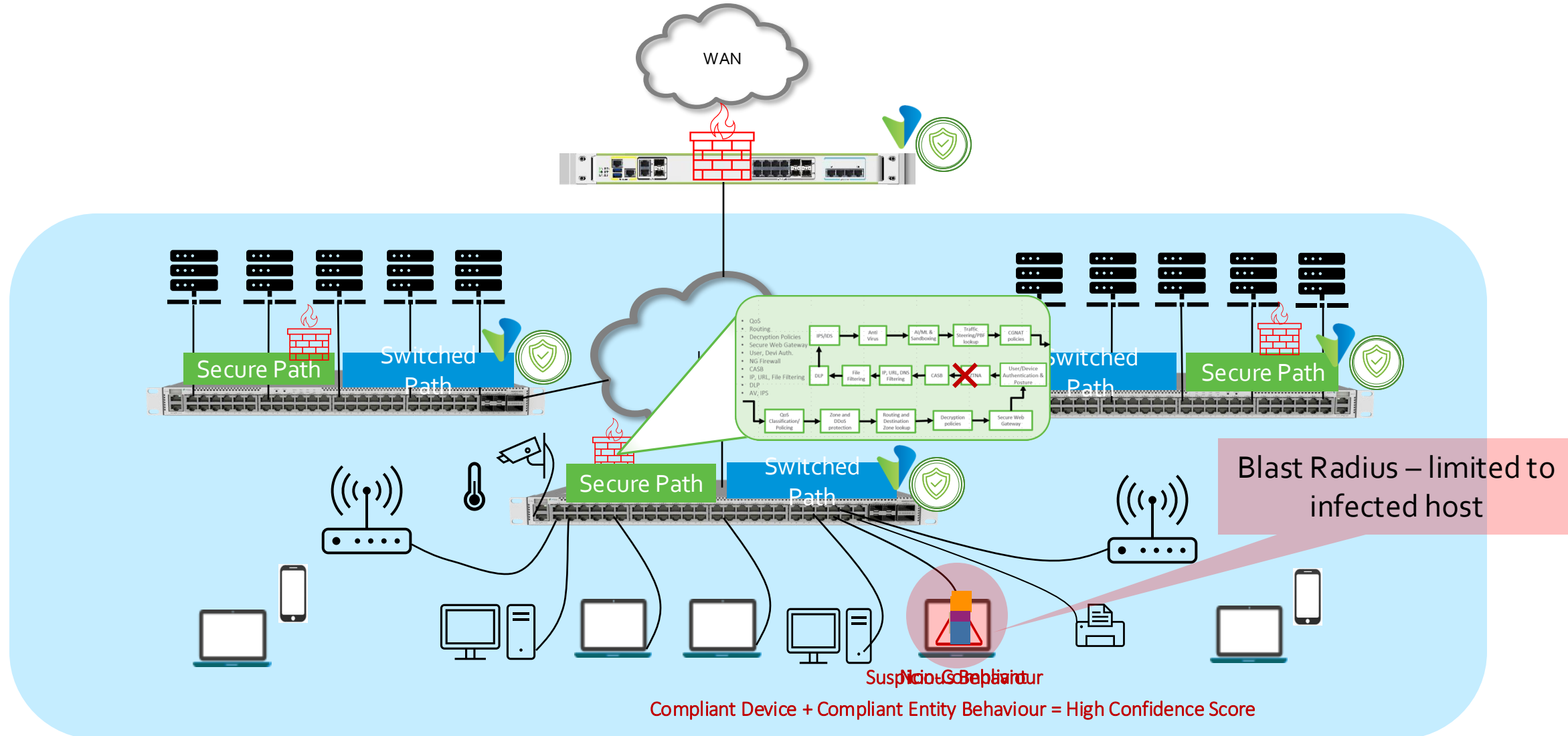
Adaptive Micro-segmentation based on entity confidence score



Legacy Campus: Infection blast radius expansive



ZT-LAN: Blast radius is limited to the infected host



Questions



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Thank you

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