The bridge to possible

Migrate your Traditional VPN to Cloud-delivered VPNaaS with Cisco Secure Access

Viraj Nagarmunoli, Security Solutions Architect
Tim Rowley, Principal Security Architect

BRKSEC-2157

Cisco Secure Access *simplifies* your hybrid worker *security* strategy

A *thoughtful migration strategy* is key

Cisco Webex App

https://ciscolive.ciscoevents.com/ciscolivebot/#BRKSEC-2157

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How

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2. Click “Join the Discussion”
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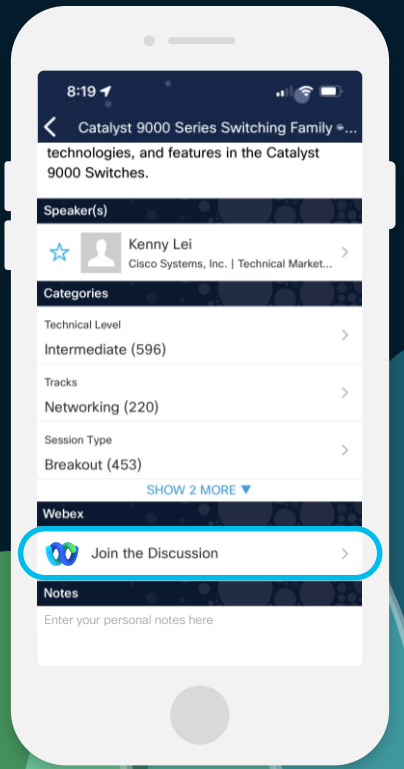
4. Enter messages/questions in the Webex space

Webex spaces will be moderated by the speaker until June 7, 2024.

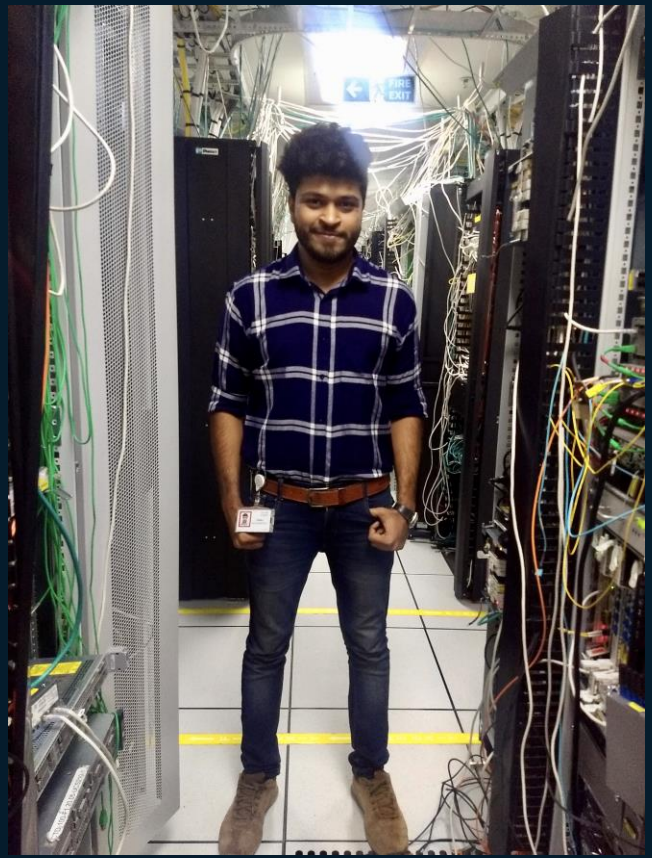


Agenda

- Traditional RAVPN vs Cisco Secure Access
- Secure Access Use Cases
- Intent-based Policy
- Migration Strategy
- Conclusion

Session Outline

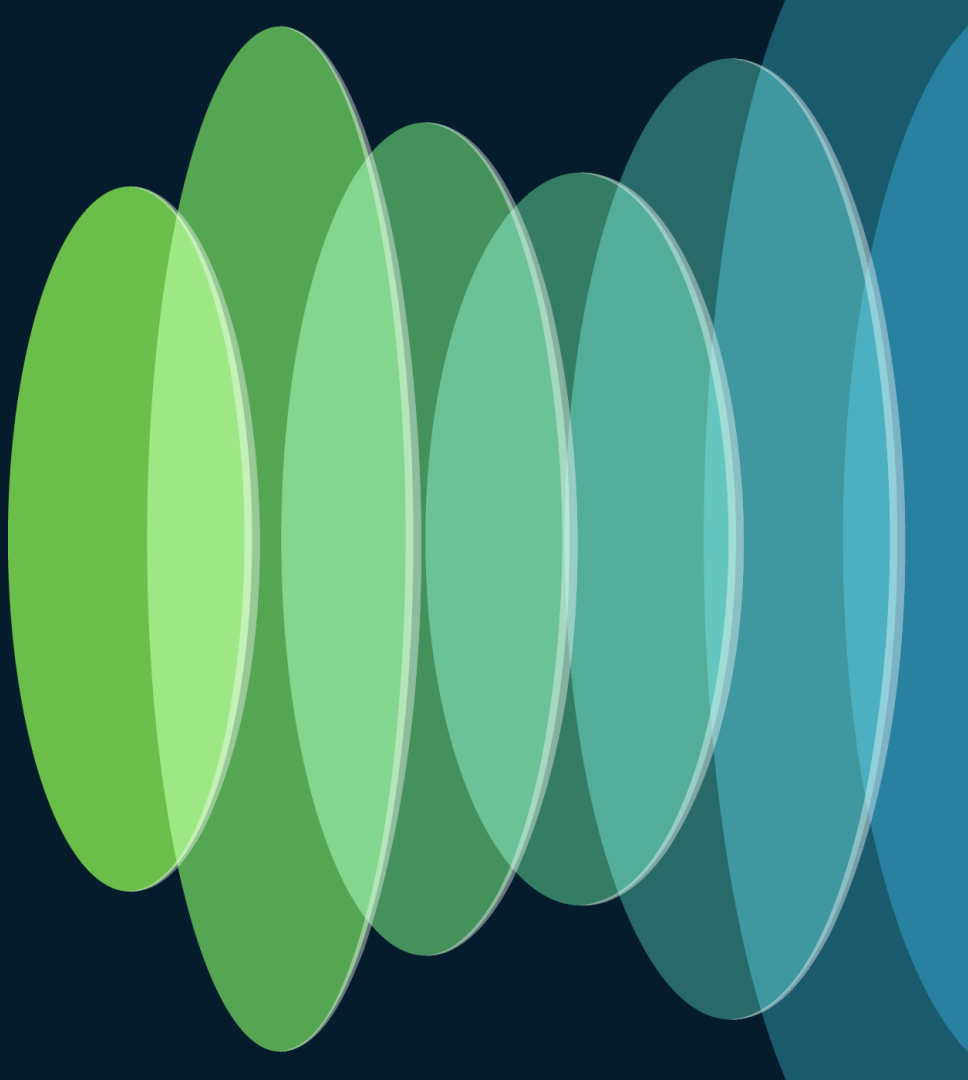
- The goal for this session is to help you build a migration strategy
- The content does not cover specific configuration examples



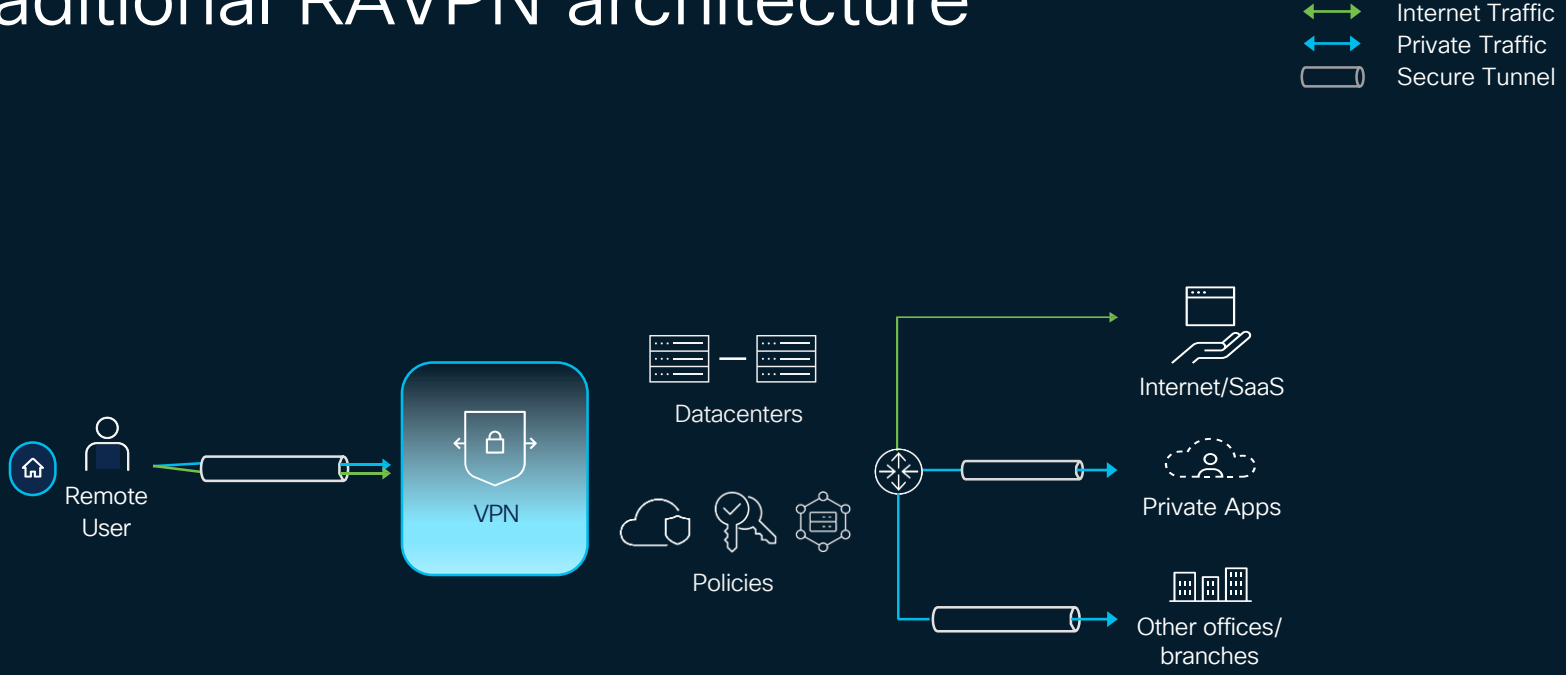
Viraj Nagarmunoli

- 7 years of experience
- Various roles @ Cisco
  - ISE / AAA TAC Escalation Engineer
  - Solutions Architect
  - Zero Trust CX Product Management
- Worked in
  - Bangalore
  - Raleigh
  - San Jose
- Education
  - Masters in Software Systems
  - Bachelors in Electronics and Comm

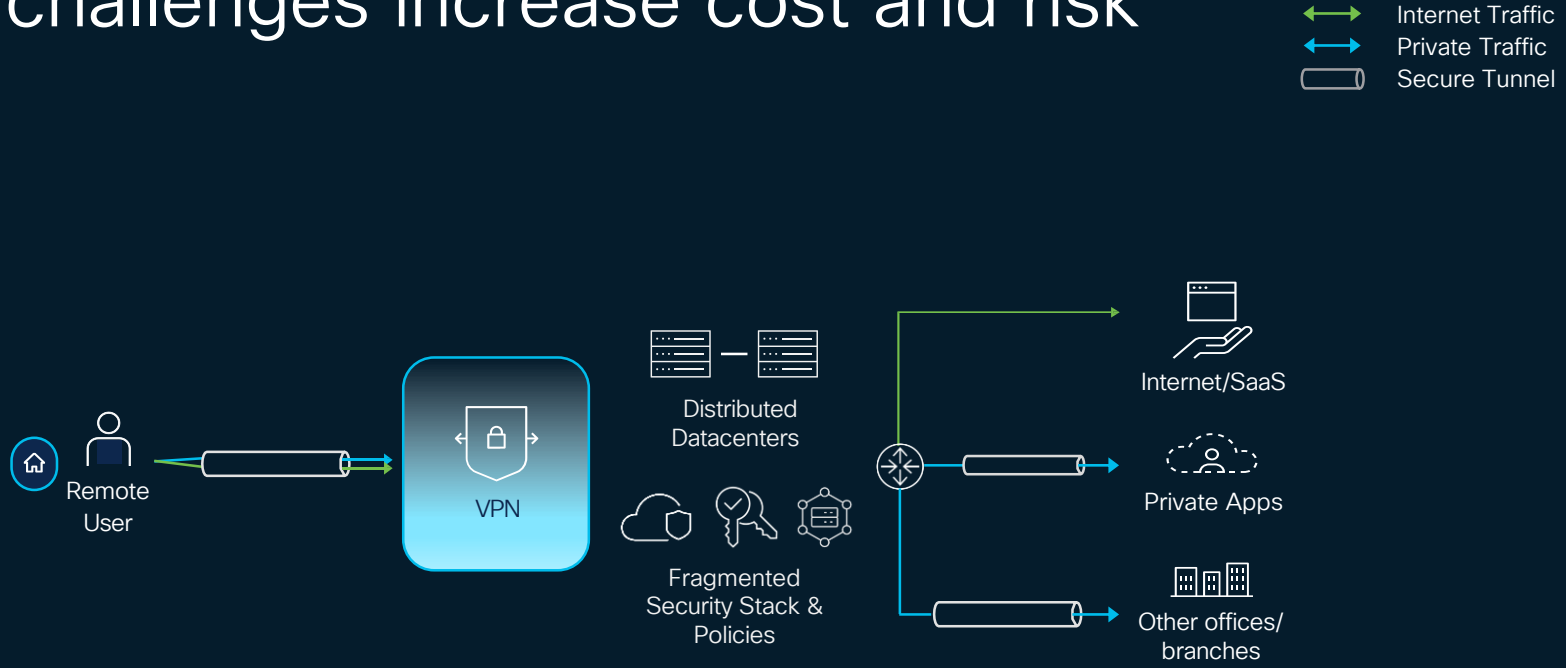
Traditional Remote Access VPN



Traditional RAVPN architecture



IT challenges increase cost and risk



Hybrid work, SaaS explosion and unabated threats

Push the limits of traditional VPNs

49%

Employees are remote/hybrid users

53%

Remote/hybrid workers using DIA

55%

Traffic to/from off-premises, cloud-based facilities

Capacity constraints. User frustration (opting out). Security gaps.

Reference: ESG SSE Survey, June 2023

Why are users so frustrated?

83%

Performance issues when using the VPN

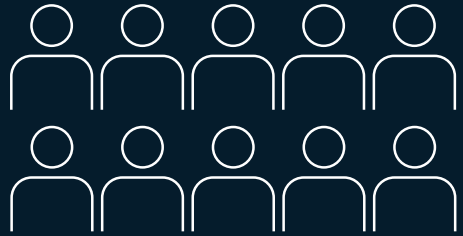
78%

Repeatedly turning the VPN on and off

77%

Frequent and/or intrusive requests for user credentials and posture checks

User fatigue opens the door for successful attacks



40%

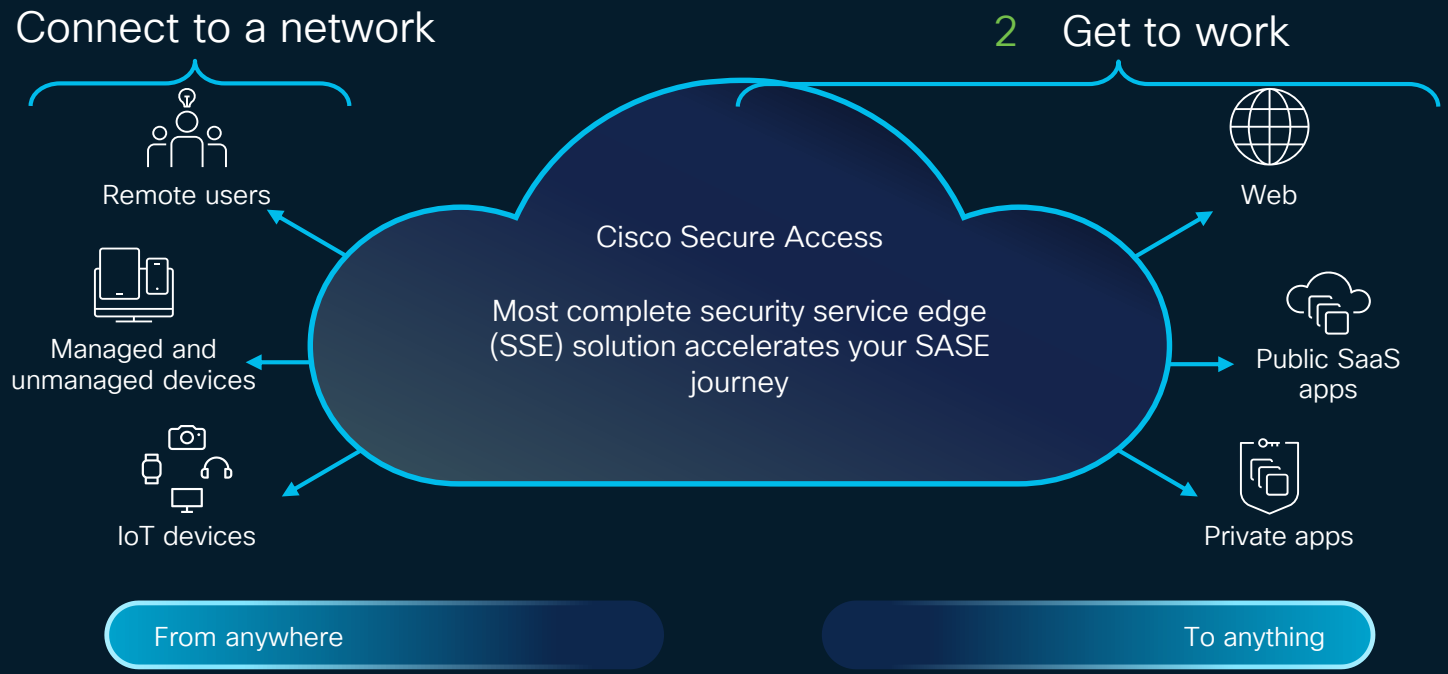
Of remote/hybrid users have bypassed recommended VPN use in the past

Reference: ESG SSE Survey, June 2023

Ideal State

Introducing Cisco Secure Access

Modernize your defense with converged cloud security grounded in zero trust



Move your VPN to the cloud (VPNaaS)

- Deliver VPN as outsourced cloud service
- Eliminate hardware installation and maintenance
- Boost productivity with user access to all apps/resources

- Simplify operations with single console, agent, policy engine
- Enhance application access control
- Easily scale with high performance as user base grows

Secure Access Use Cases

VPNaaS and more

Use Cases

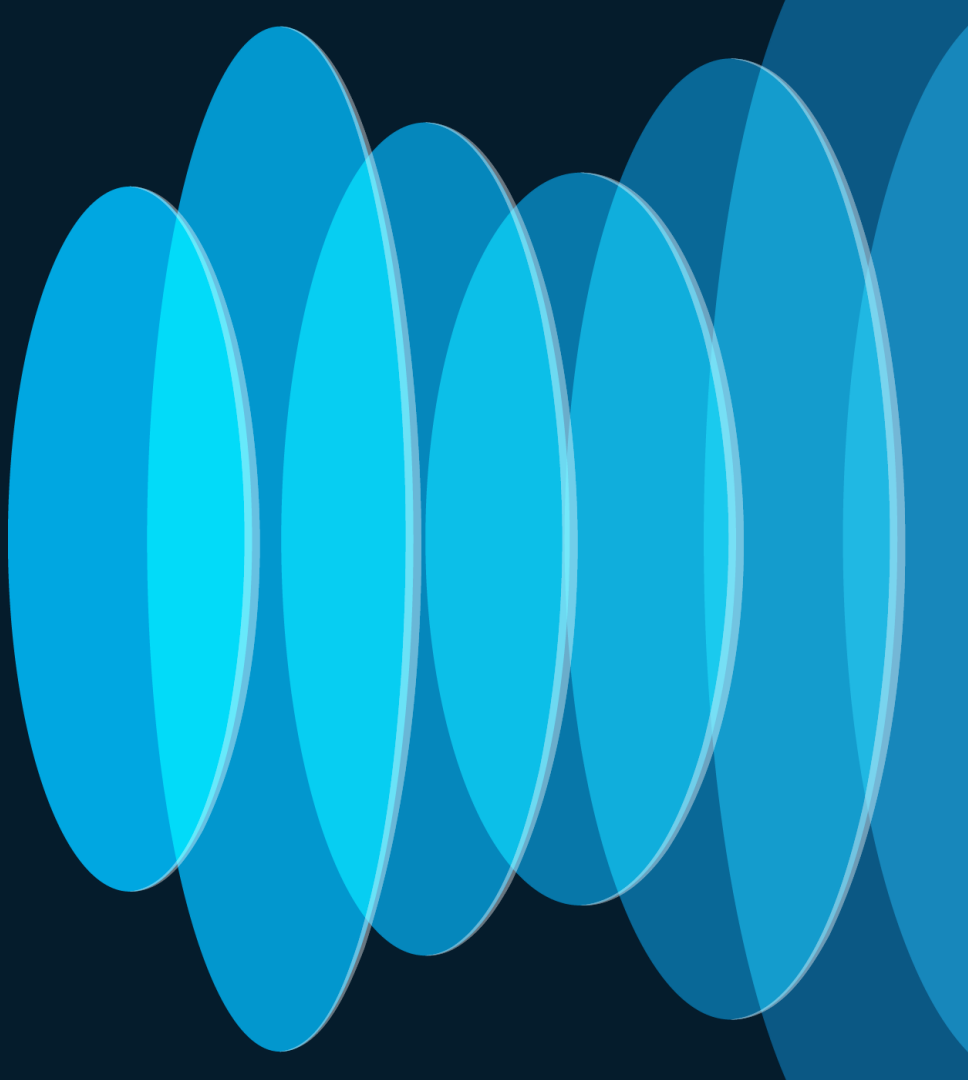
Secure Private Access

- Via VPN
- Via ZTNA (Client Based)
- Via ZTNA (Clientless)

Secure Internet Access

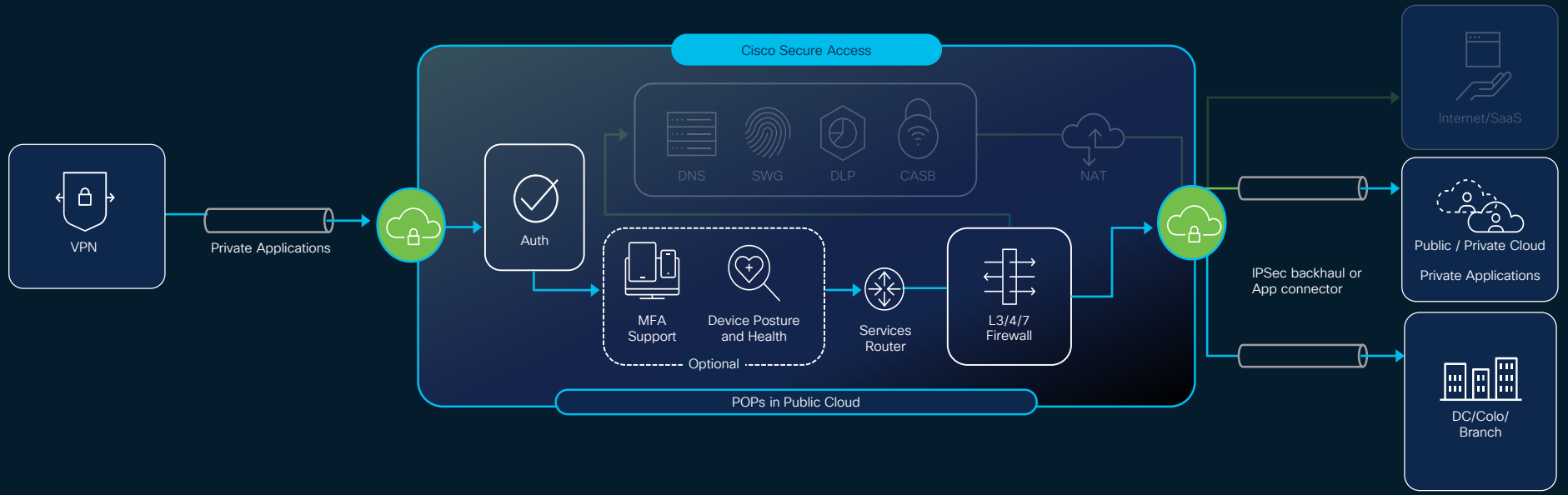
- VPN full tunnel
- Internet Security Module
- Branch DIA

Secure Private Access



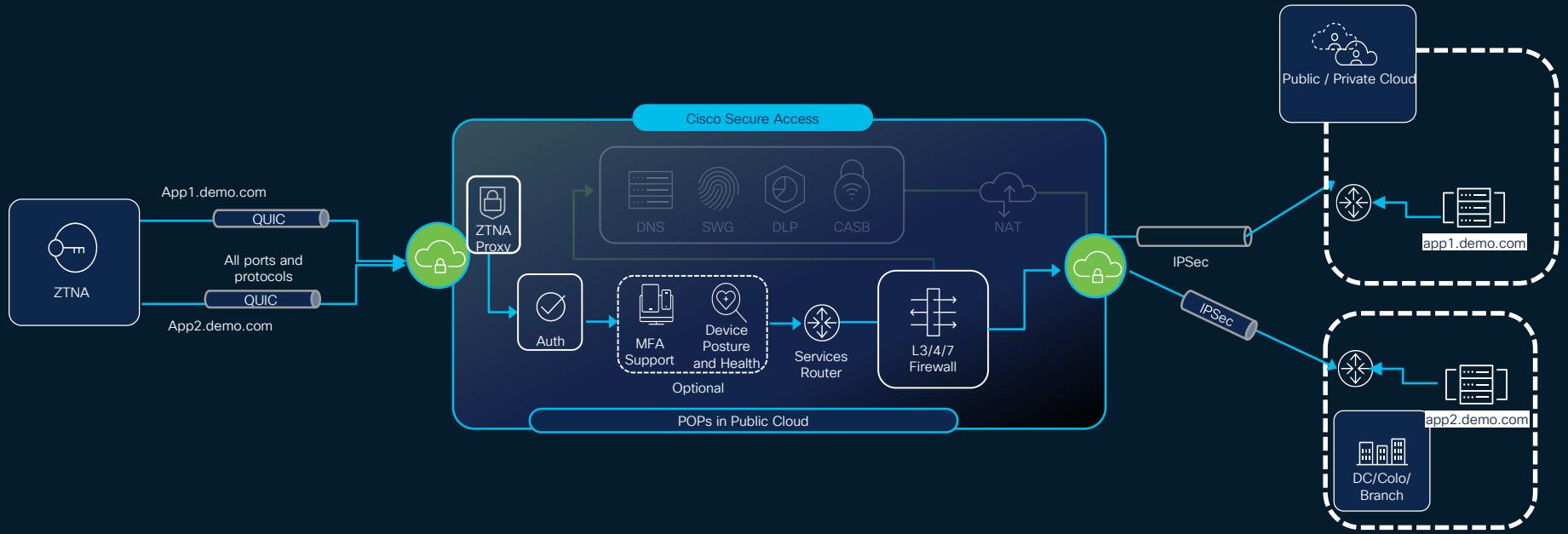
Secure Private Access (VPN)

Full or split tunnel VPNaaS



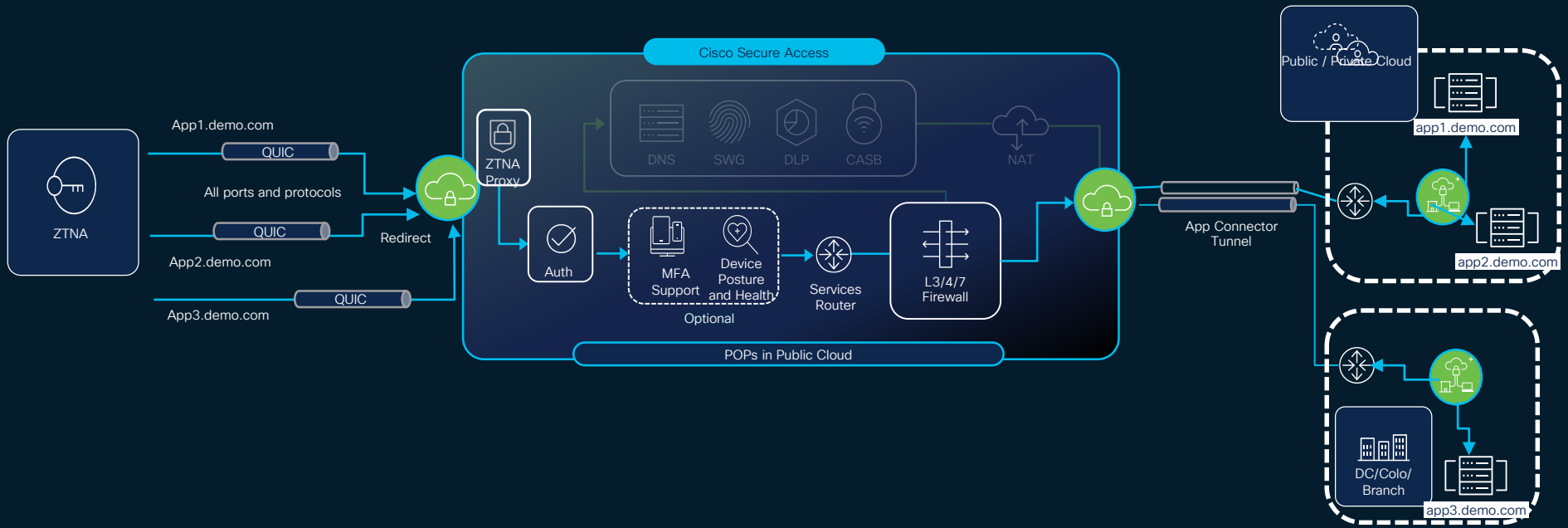
Secure Private Access (Client-based ZTNA)

ZTNA supported Apps via IPSec backhaul



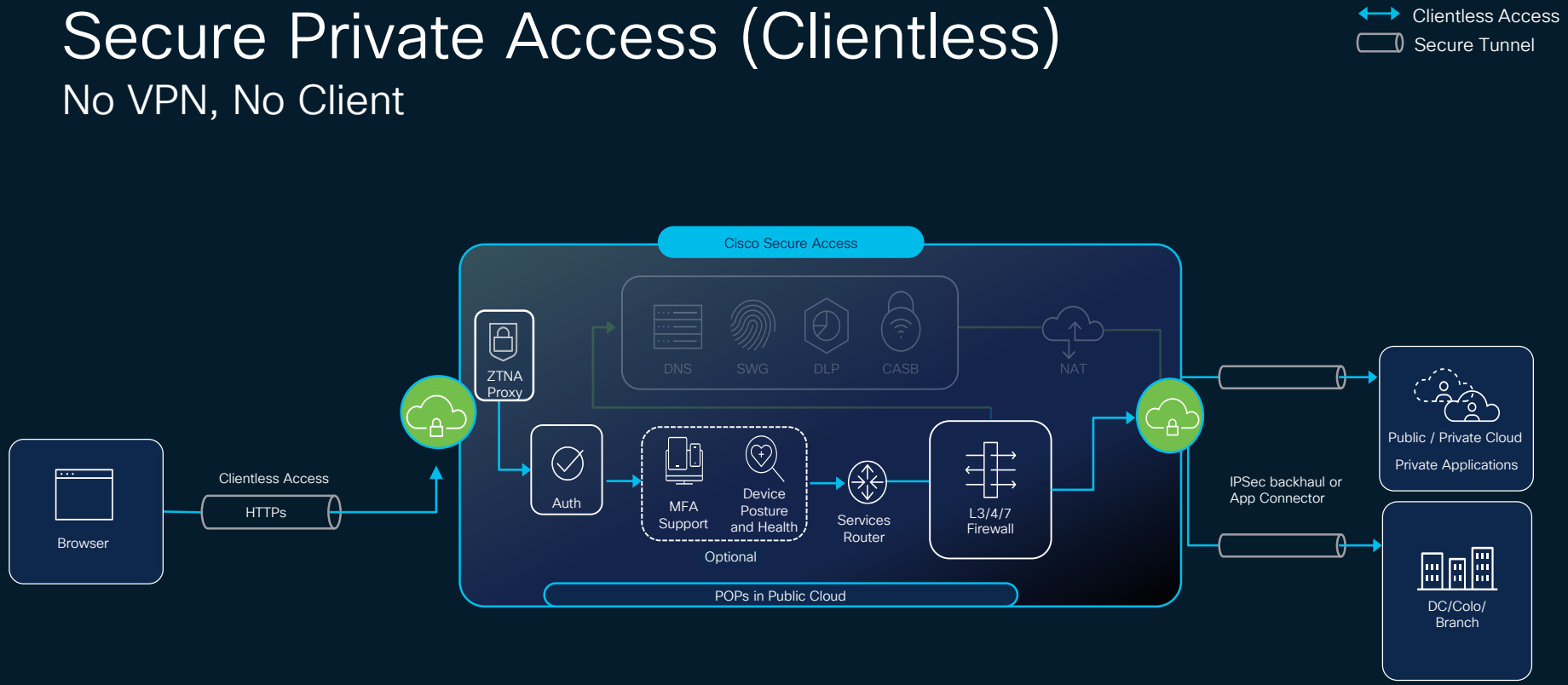
Secure Private Access (Client-based ZTNA)

ZTNA supported Apps with App Connector

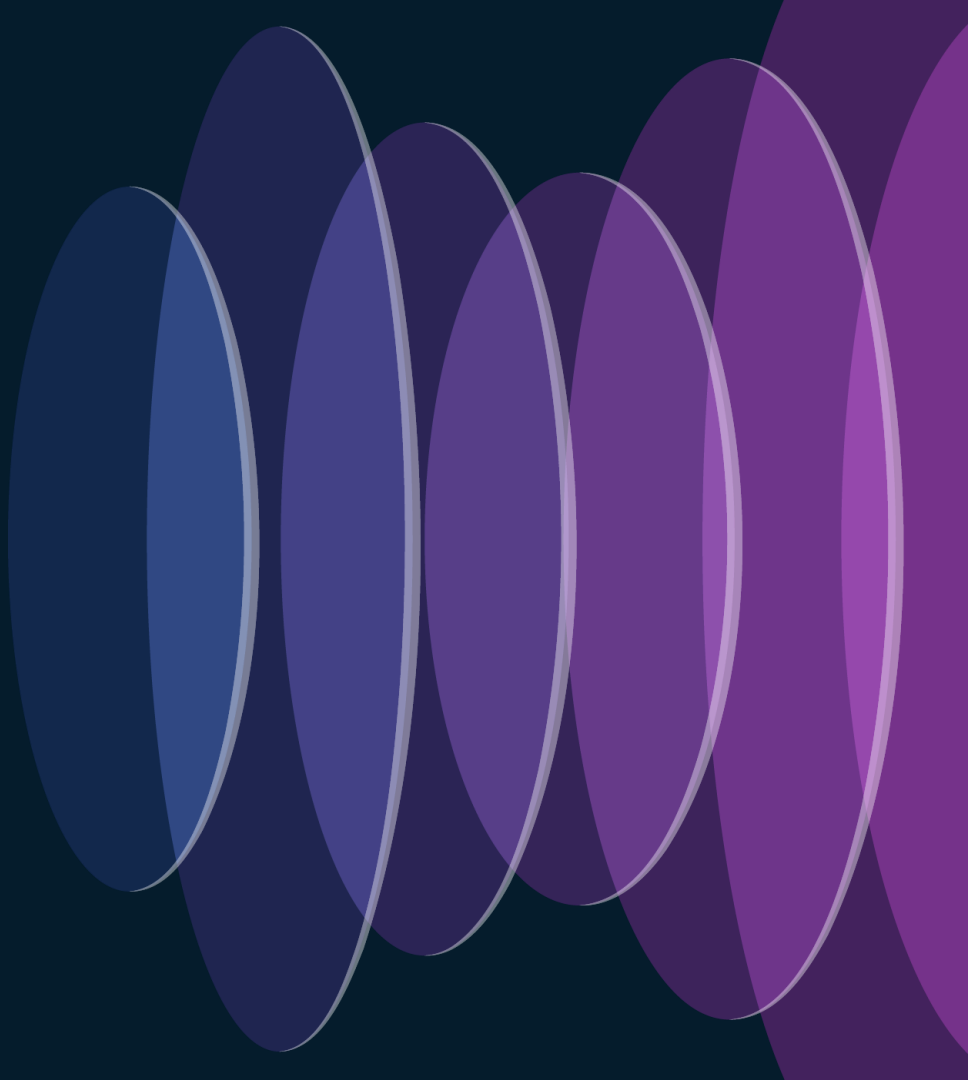


Secure Private Access (Clientless)

No VPN, No Client

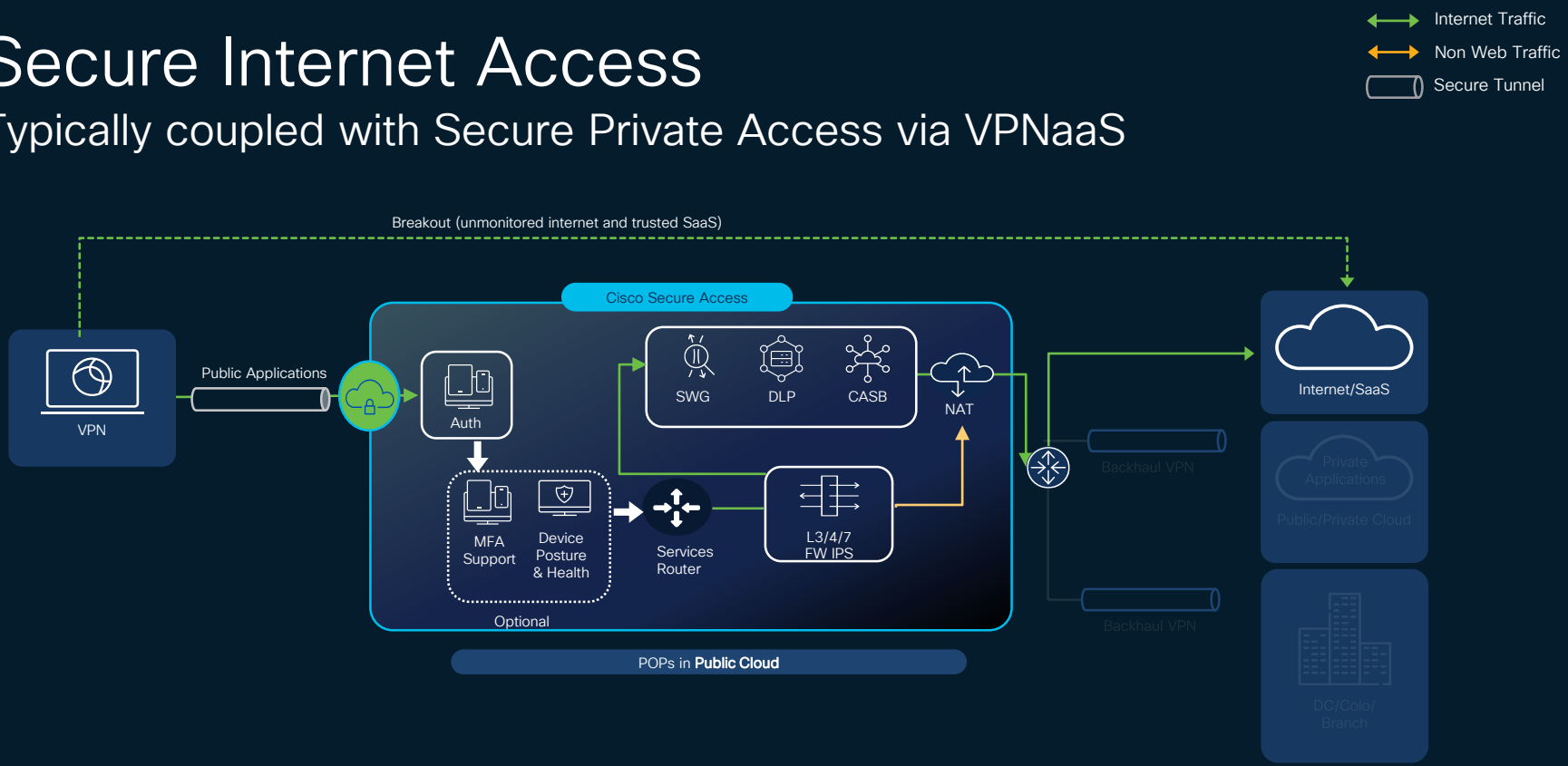


Secure Internet Access

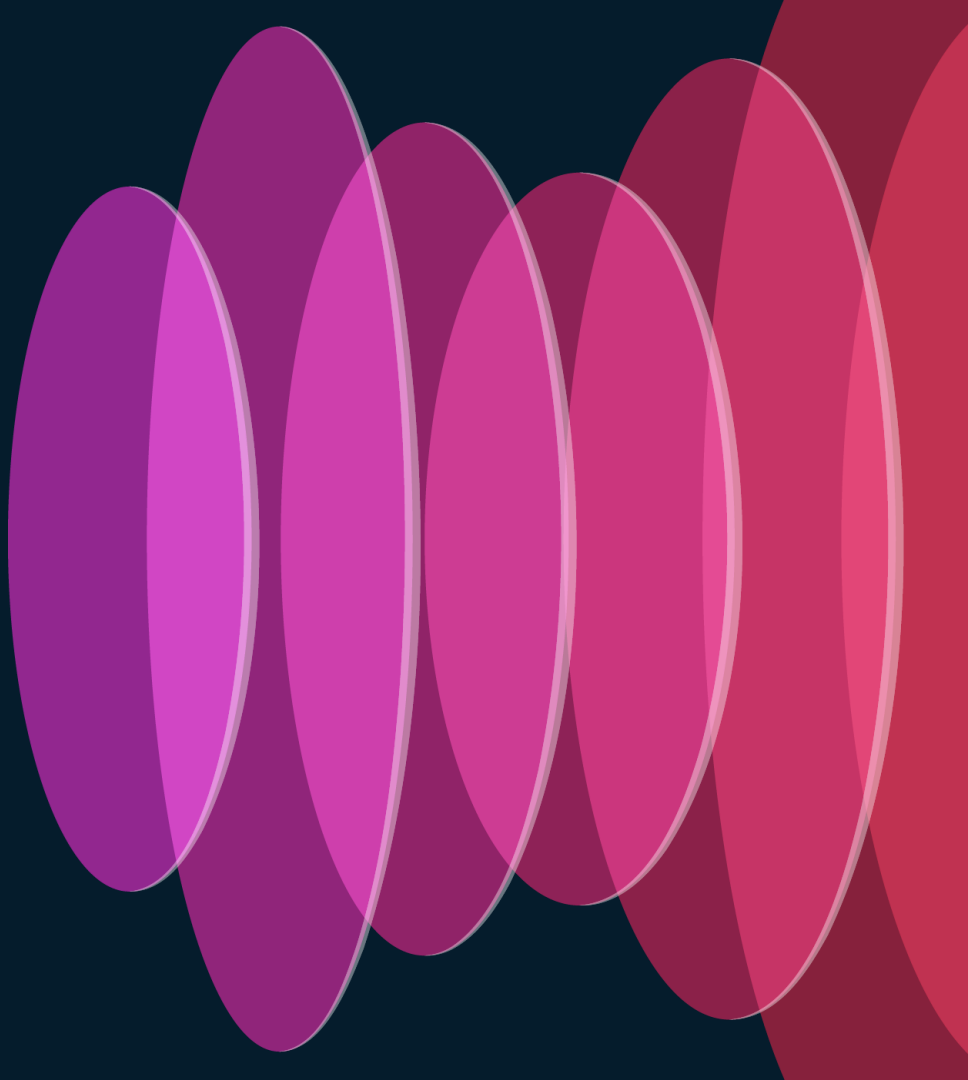


Secure Internet Access

Typically coupled with Secure Private Access via VPNaaS



Unified Intent Based Policy

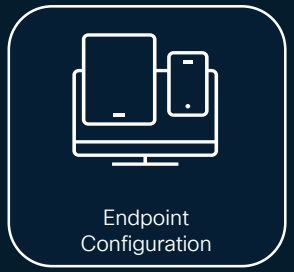


Modular Policy

Configure Once – Use Everywhere

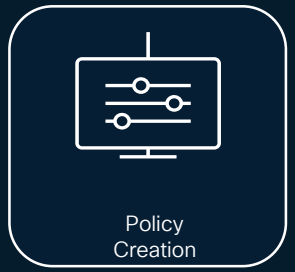
- Application Connector
- IPsec Tunnel

- VPN Application
- ZTNA Application
- Clientless Application



- VPN Profile
- ZTNA Profile
- Roaming Profile

- Endpoint Posture
- Web Security
- IPS Profile

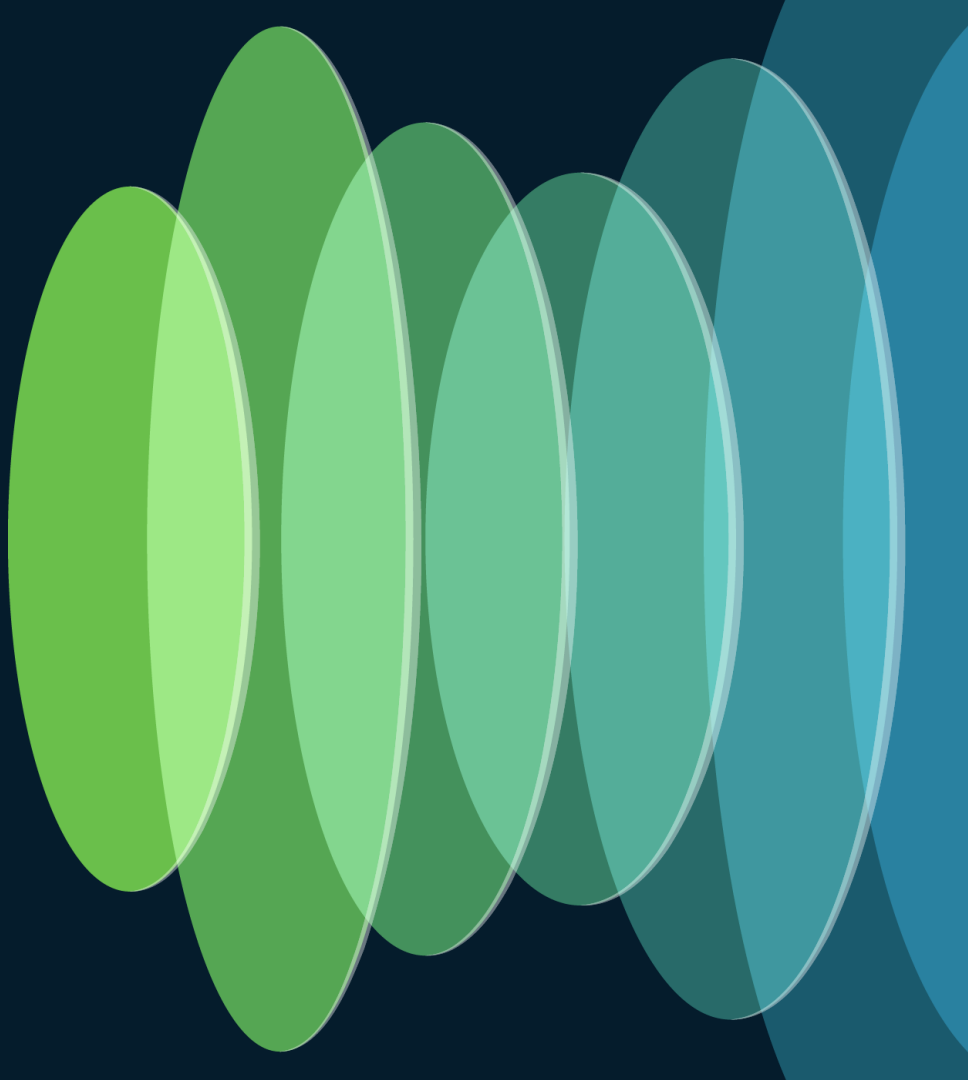


- Identity

Cisco Secure Access *simplifies* your hybrid worker *security* strategy

A *thoughtful migration strategy* is key

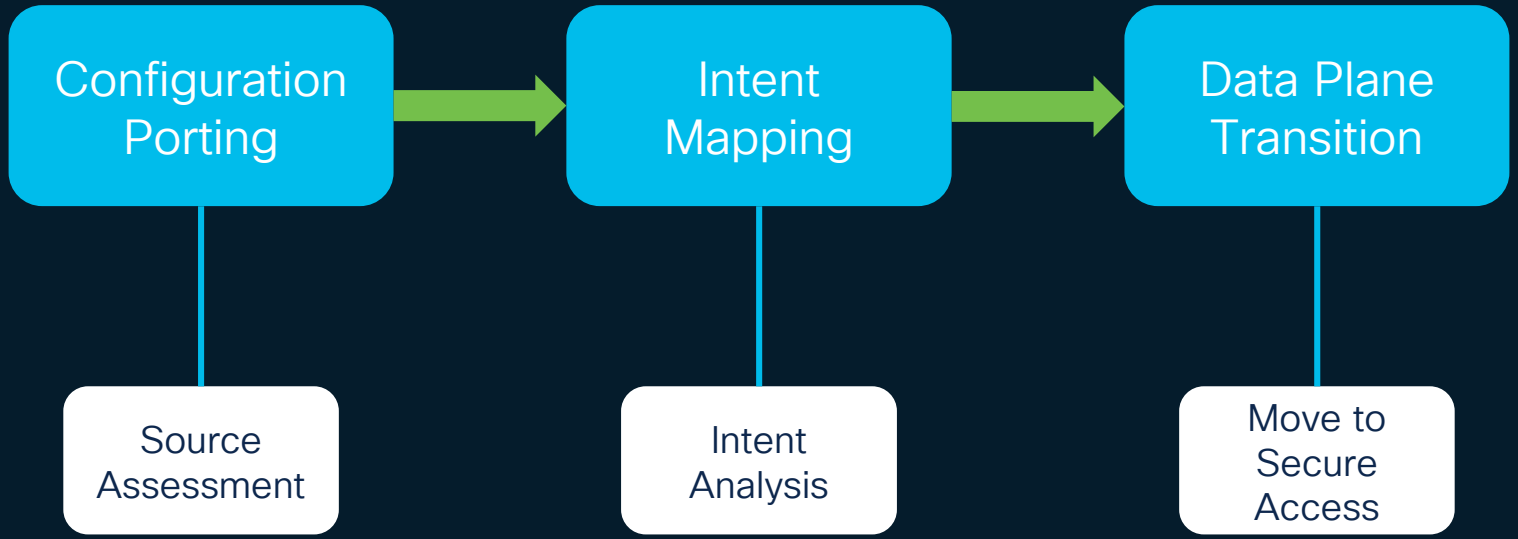
Migration Strategy



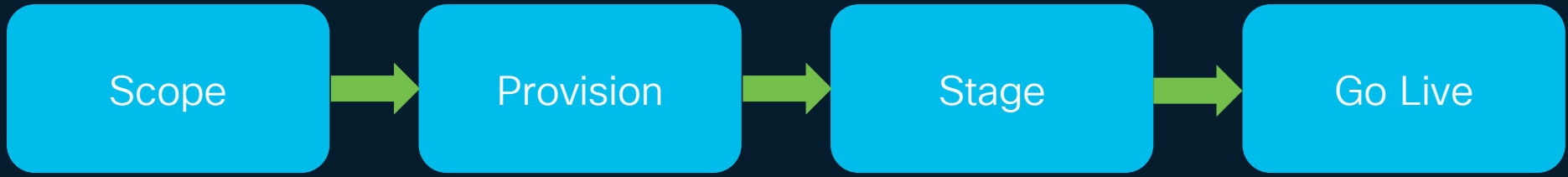
Tim Rowley

- 24 years of experience
- Various roles @ Cisco
  - Solutions Architect
  - Principal architecture lead for CX Security product management
- Certifications
  - CCIE #25960 Security and Wireless
  - CISSP, CCSP, CWNE #124
- Lives in Nashville, TN with wife, 2 kids and 2 dogs

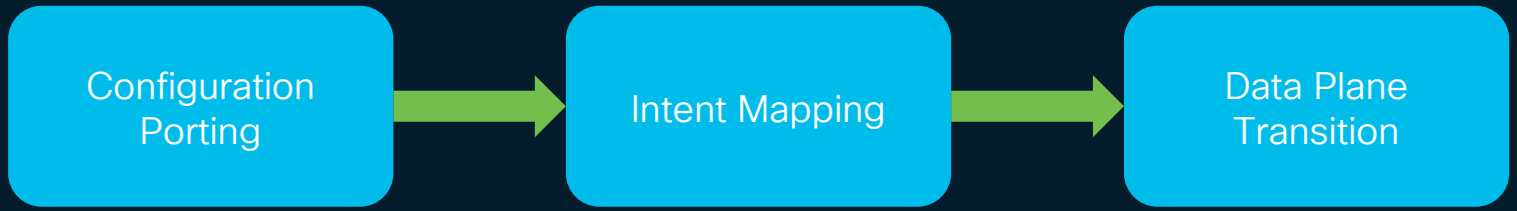
Major milestones add structure to the strategy



Migration phases support the milestones



Milestones



Map your source intent to Secure Access

On-prem RAVPN Termination

1. User connectivity
2. AAA
3. Posture
4. App reachability
5. Policy

Cisco Secure Access

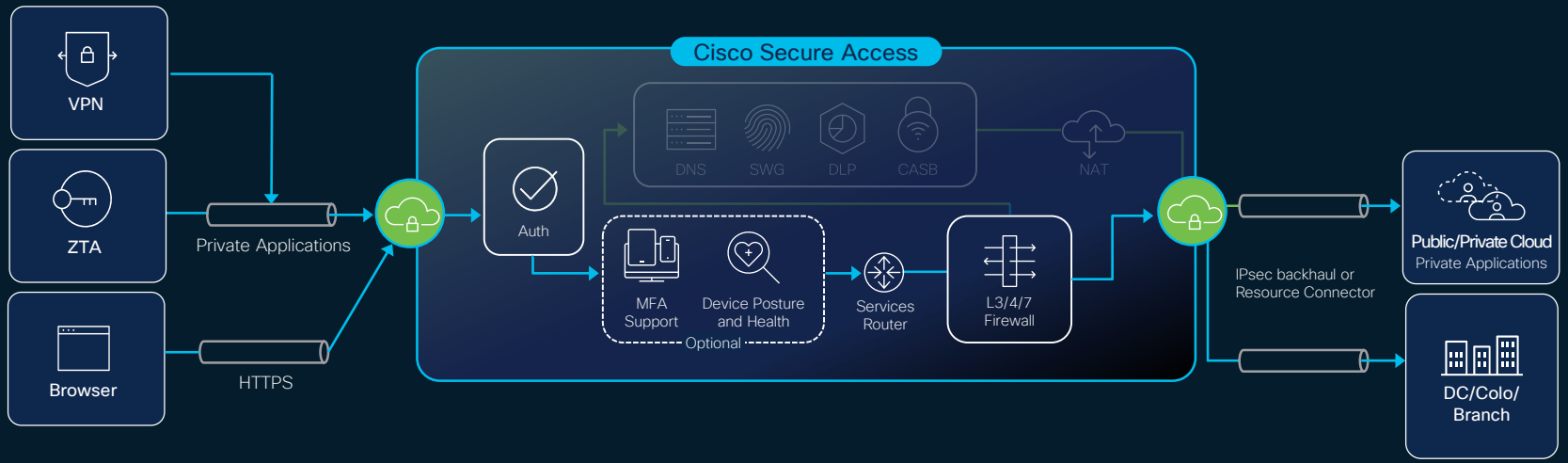
1. VPN Profiles
2. AAA within VPN Profile
3. Connect time posture
4. App reachability
   a. IPsec backhaul
   b. Resource Connector
5. Access Policy

Scope

Configuration Porting

Intent Mapping

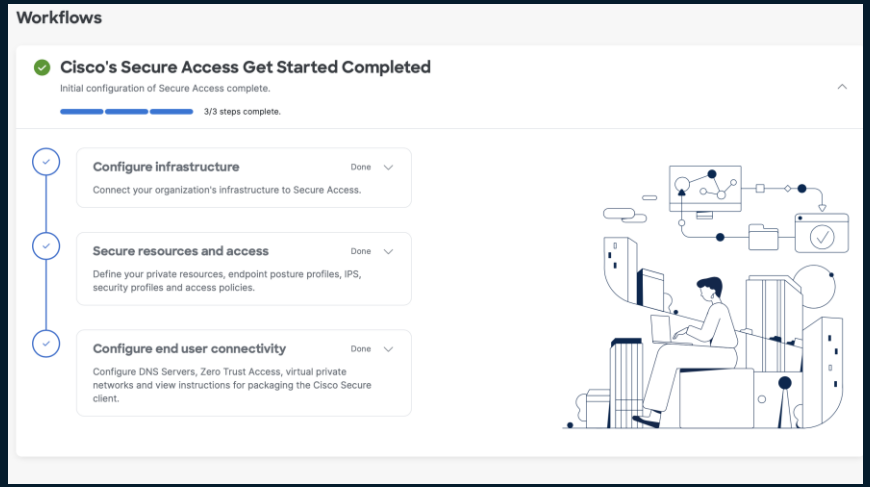
- Requirements gathering and design
- Deep analysis of source configs and intents
- Start to document migration plan



Provision

Configuration Porting

- Bootstrap mindset
- Fundamental policy elements and system settings
- Have at it! Zero risk!

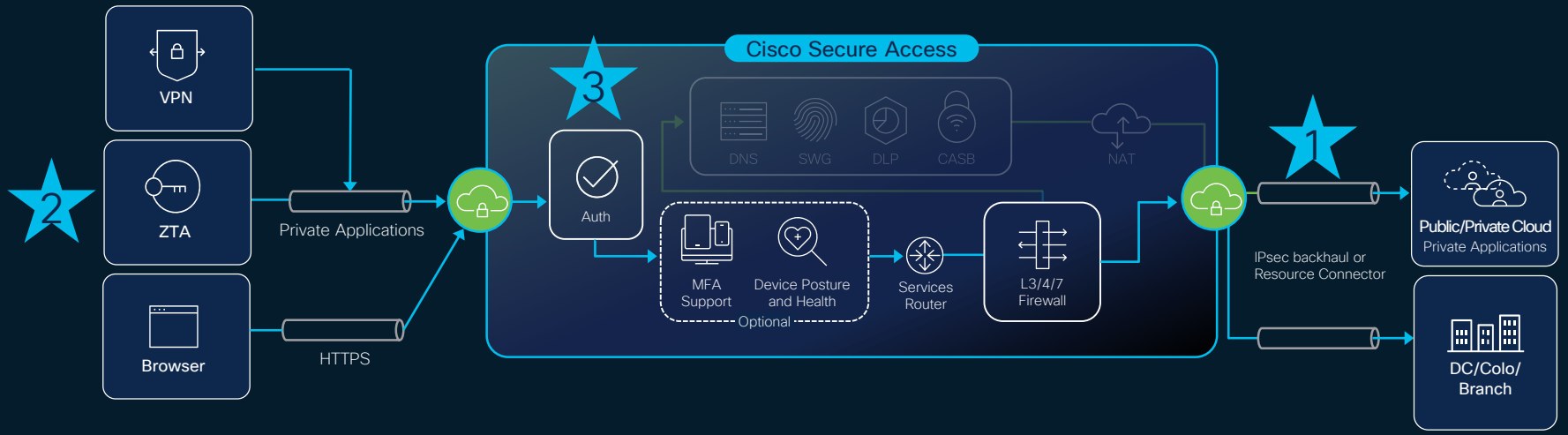


Stage

Configuration Porting

Intent Mapping

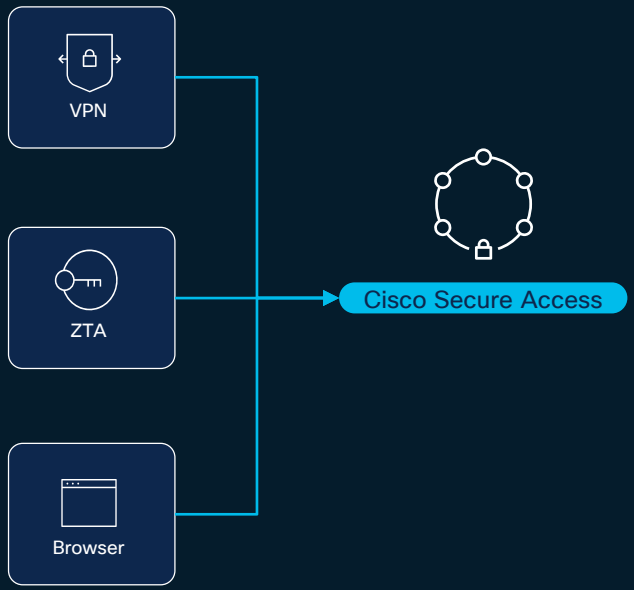
1. Network connections (Back-end)
2. End user connectivity (Front-end)
3. Incremental policy additions with testing!



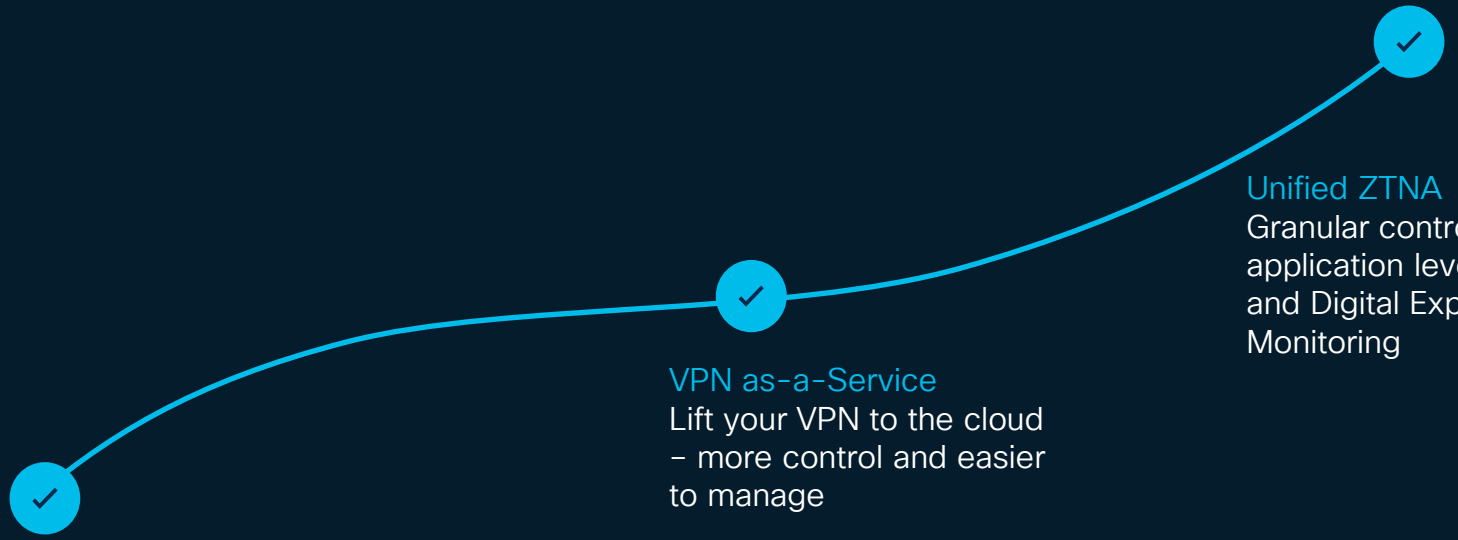
Go Live!

Data Plane Transition

- Cutover occurs at your pace!
- Activate flows
- Redirect users
- Source system is still usable



Assess, plan and pace your migration



Traditional VPN
Network level access – cannot control at app level

VPN as-a-Service
Lift your VPN to the cloud – more control and easier to manage

Unified ZTNA
Granular controls at the application level + VPNaaS and Digital Experience Monitoring

Cisco Secure Access Strategy and Implementation Services

- Project Management
- Solution Requirements and Design
- Implementation and Testing
- Migration Plan and Execution
- Knowledge Transfer

Complete Your Session Evaluations

Complete a minimum of 4 session surveys and the Overall Event Survey to be entered in a drawing to **win 1 of 5 full conference passes** to Cisco Live 2025.

Earn 100 points per survey completed and compete on the Cisco Live Challenge leaderboard.

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- Book your one-on-one Meet the Engineer meeting
- Attend the interactive education with DevNet, Capture the Flag, and Walk-in Labs
- Visit the On-Demand Library for more sessions at www.CiscoLive.com/on-demand

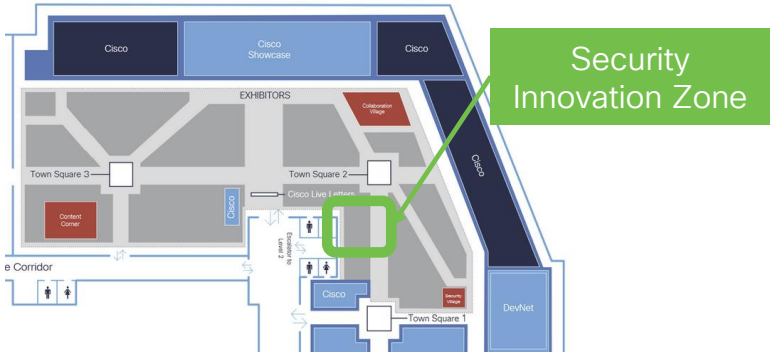
Continue the conversation in the session's Webex Team Space

Continue your education

- Hear Tom Gillis at the Security Deep Dive Keynote KDDSEC-1000!

  Securing User to Application and Everything in Between
  Wednesday, June 5 | 1 – 2pm

- Visit us at the Security Innovation Zone (#4435) for demos and workshops



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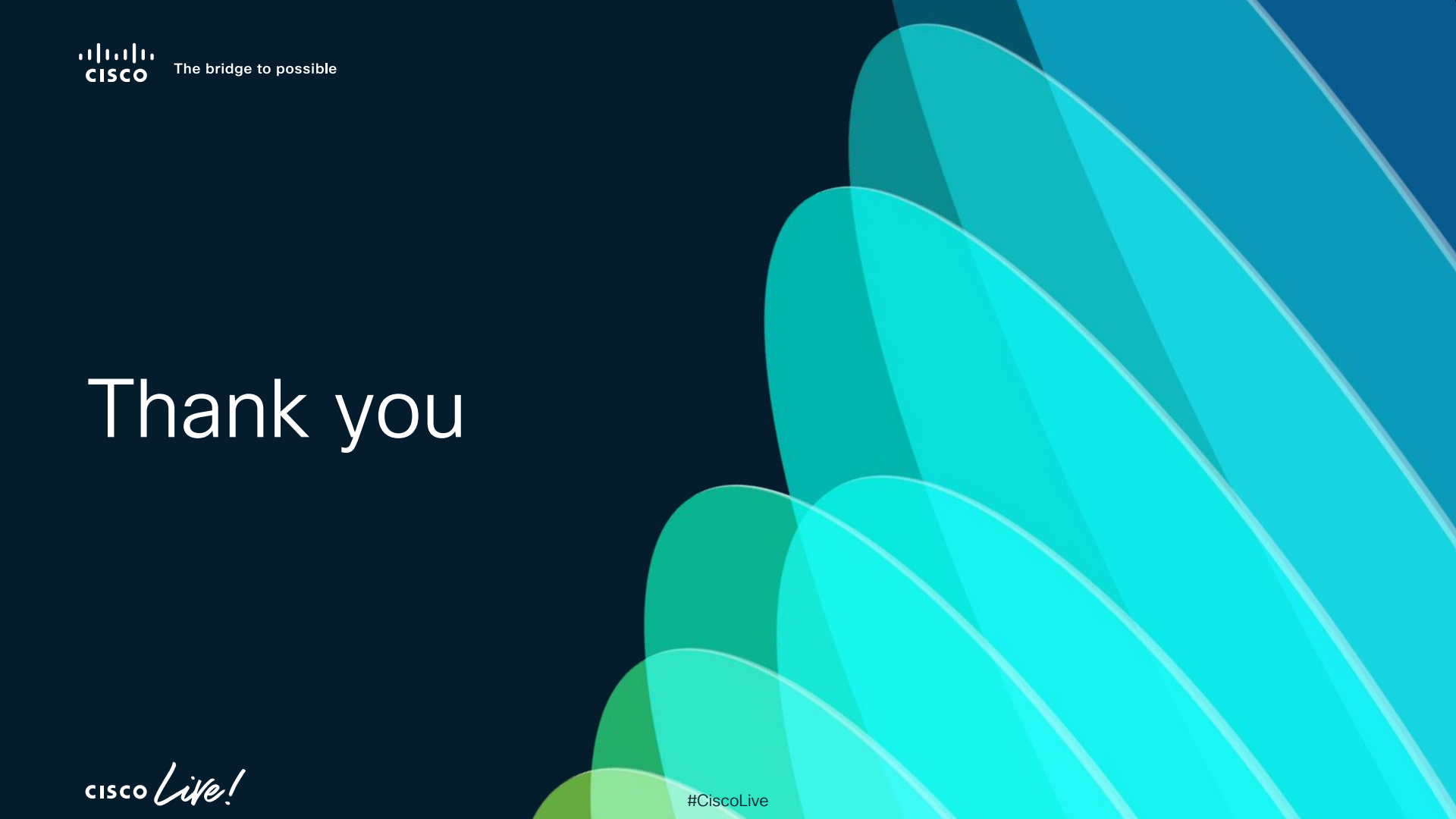
A *thoughtful migration strategy* is key


The bridge to possible
Thank you
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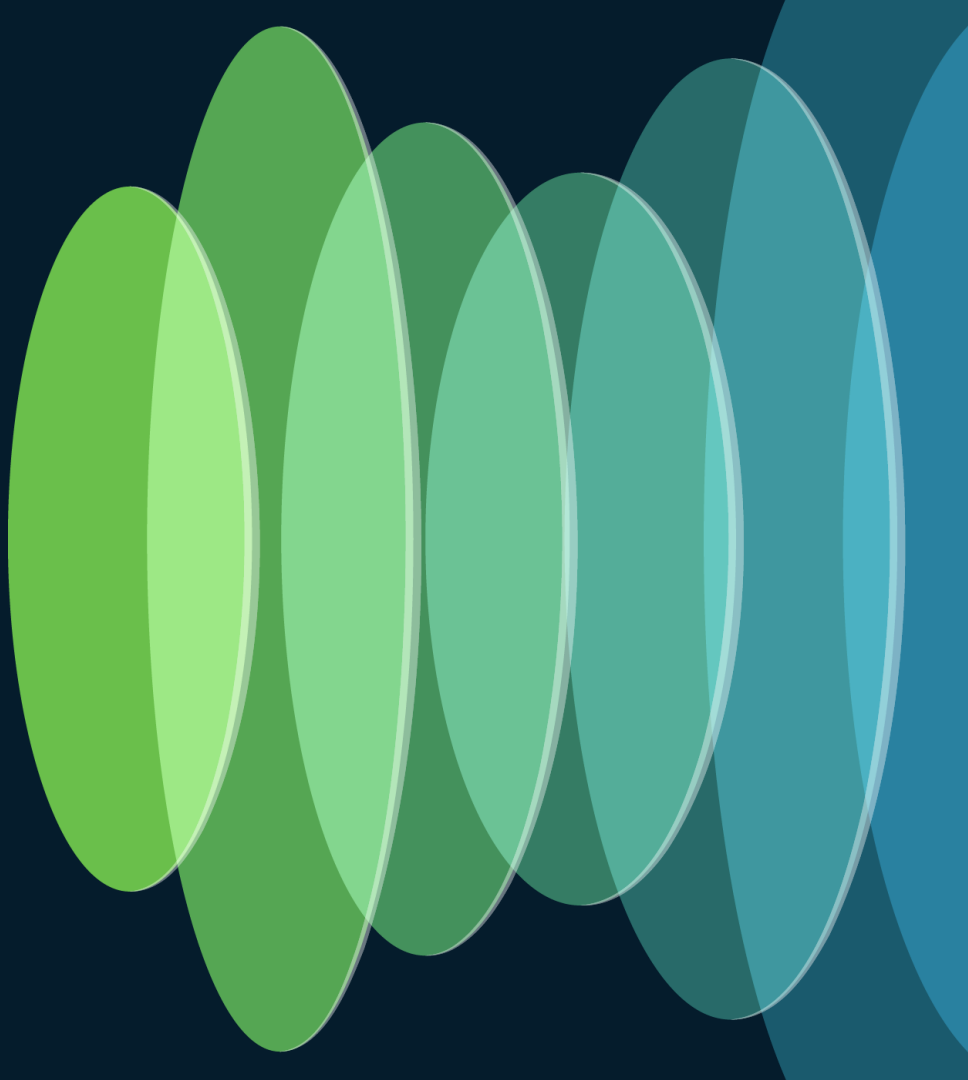
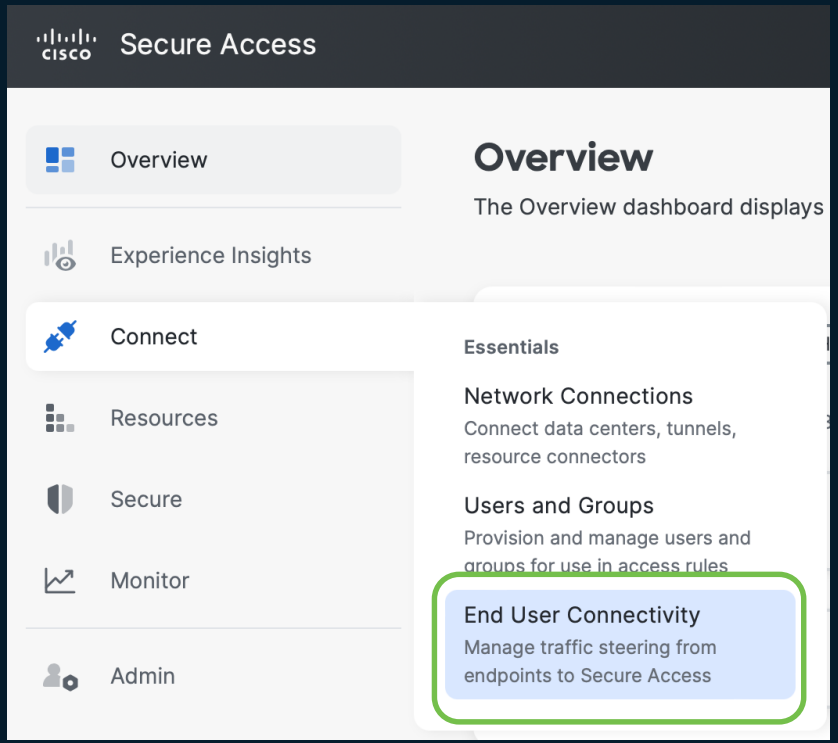
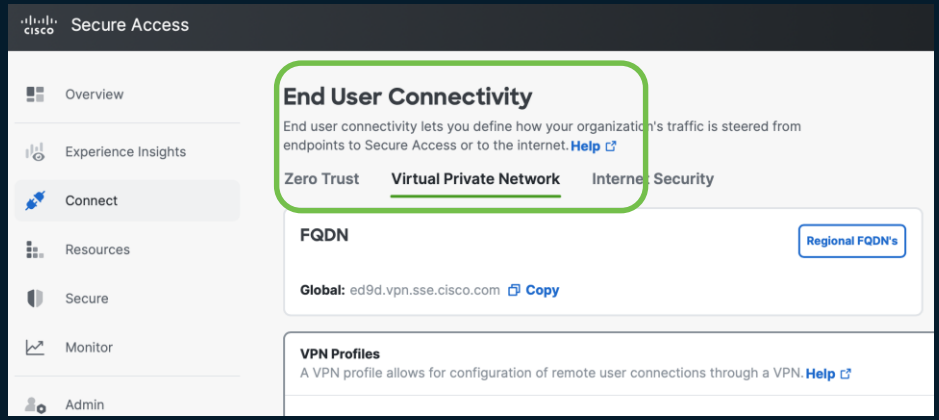
Intent Mapping Appendix

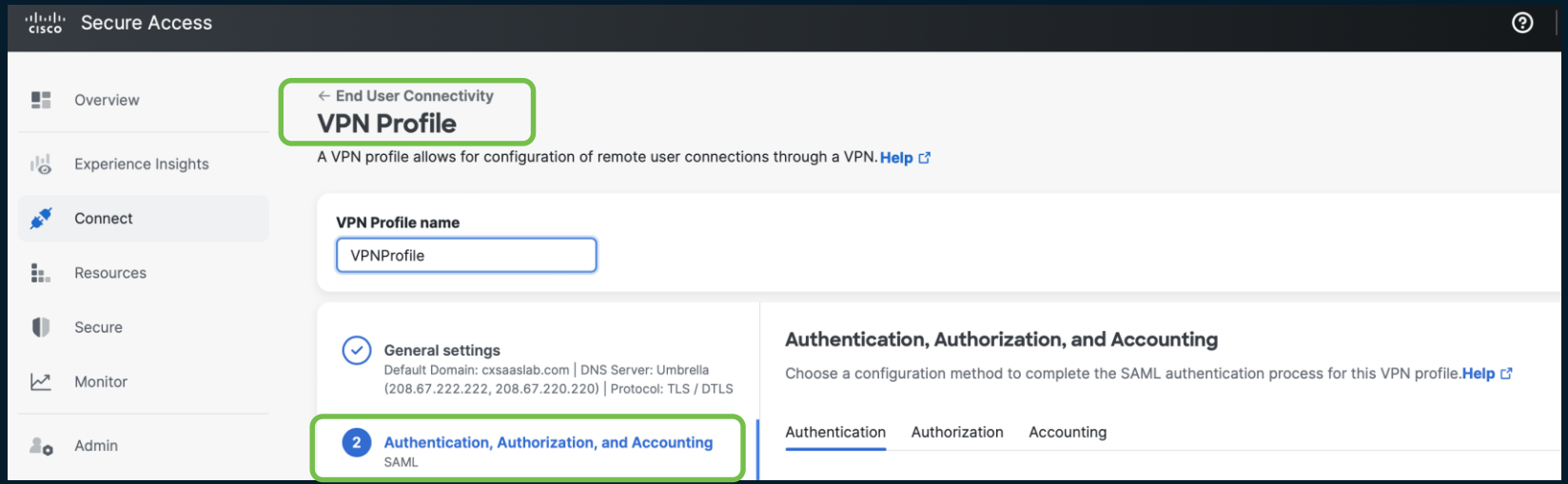


VPN Profiles

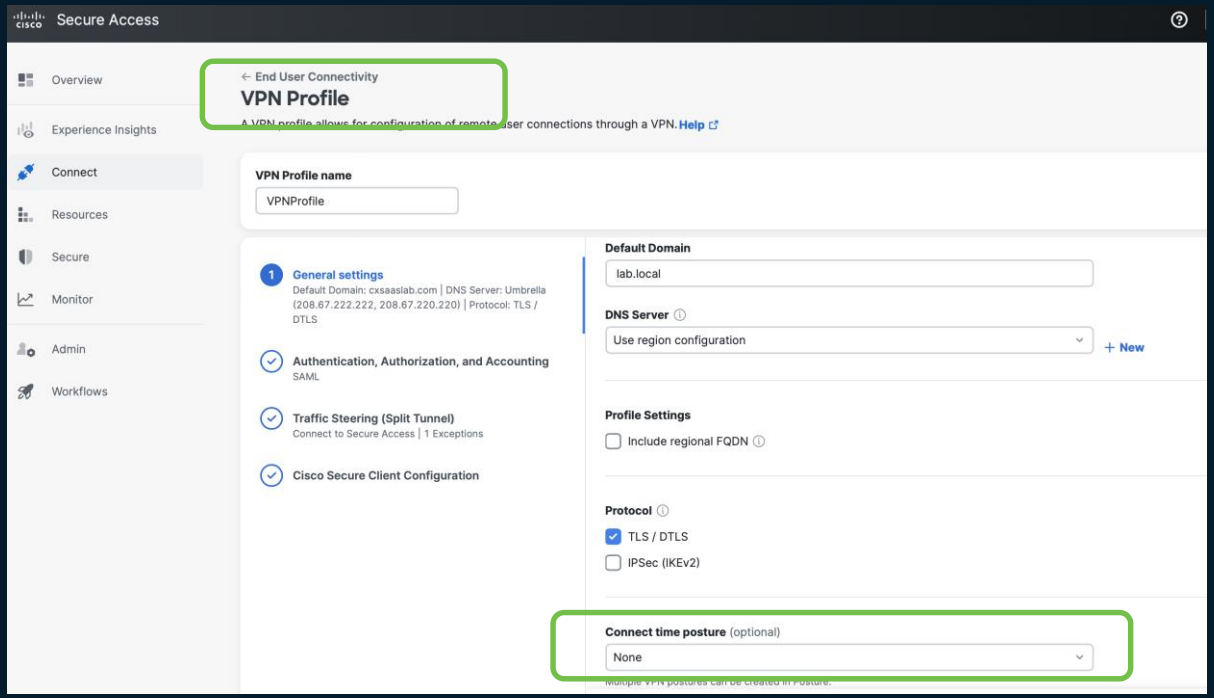




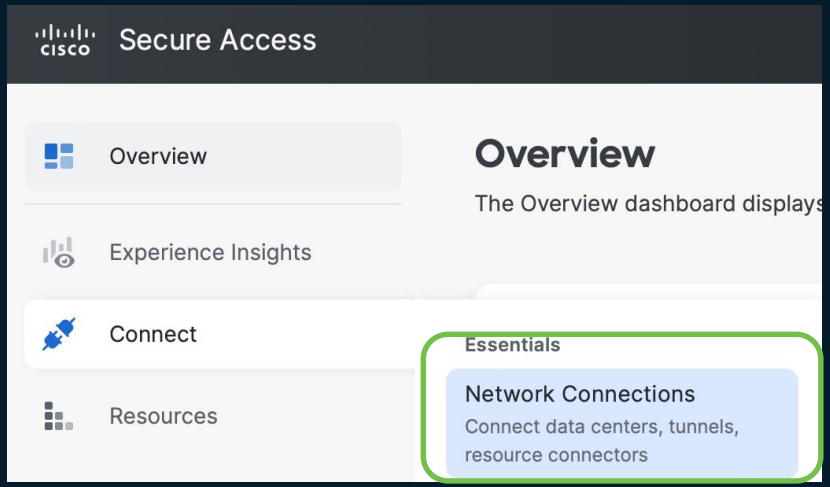
AAA

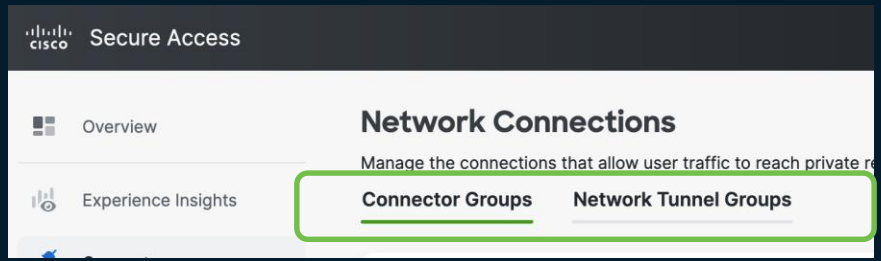


Connect Time Posture



Back-end Connectivity





Access Policy