



ZERO TRUST WEBINAR





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Zero Trust is the sharpest tool to fight cyber threats. Learn from the experts how to safeguard your organization.



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What is Zero Trust?

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Zero Trust

- “Zero Trust is an information security model that denies access to applications and data by default. Threat prevention is achieved by only granting access to networks and workloads utilizing policy informed by continuous, contextual, risk-based verification across users and their associated devices.”
- All entities are untrusted by default
- Least privilege access is enforced
- Comprehensive security monitoring

“The Definition of Modern Zero Trust,” Forrester, 2022

Why do
we need
Zero
Trust?

Two Reasons

TCP/IP is a Weak Security Foundation (Implicit Trust)

**TCP/IP
Connect
First,
Authenticate
Second**



All
resources
are visible



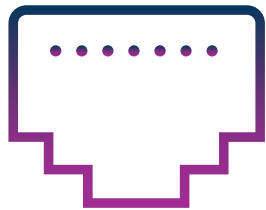
Connect



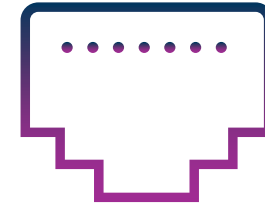
Authenticate

TCP/IP has a poor policy language

Should 192.168.4.11 have access to 10.5.0.3?



192.168.4.11



10.5.0.3

Yes or No?

The End Result?

Too often:

Wide open, flat networks

Users with broad access to
hundreds or thousands of resources

Network security teams “give up”
and rely on authentication only for
access control

TCP/IP
Connect First,
Authenticate Second



All resources
are visible



Connect



Authenticate

Zero Trust
Authenticate First,
Connect Second



Authenticate



Connect



All resources
are visible

Zero Trust Enables a Rich Policy Language

Should Jim have access to the production SAP® server?



Jim



It Depends!



SAP Production
Server

What project is Jim working on?

Is Jim's machine patched?

What time is it?

What's our current security posture?



Jim



SAP Production Server

It Depends!

Where is Jim connecting from?

Is there an open Service Desk Ticket?

Enterprise Systems

Identity Management
Help Desk
Security
IT Infrastructure
...

Context ↔

Events ↔

Policy Decision Point

Authentication
Device Context & posture checks
Device or network changes



Access via
PEPs

Policy Enforcement Point

On-Prem
Physical or Virtual
Resources

Policy Enforcement Point

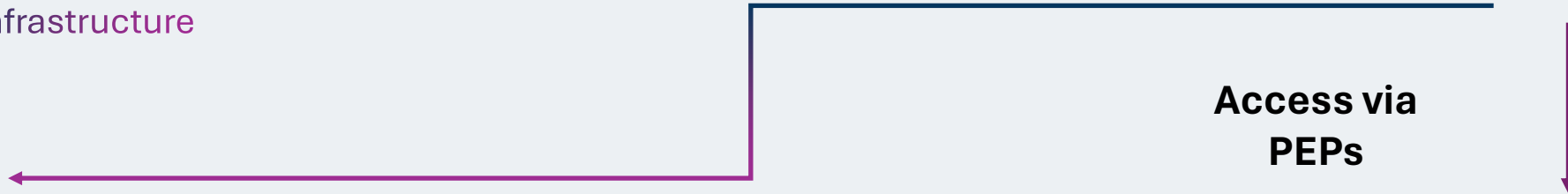
Cloud
IaaS, PaaS, SaaS
Resources

Policy Enforcement Point

Containerized
Workloads

Policy Enforcement Point

IoT Devices





Why Start with Zero Trust Network Access?

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Zero Trust

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Zero Trust Network Access

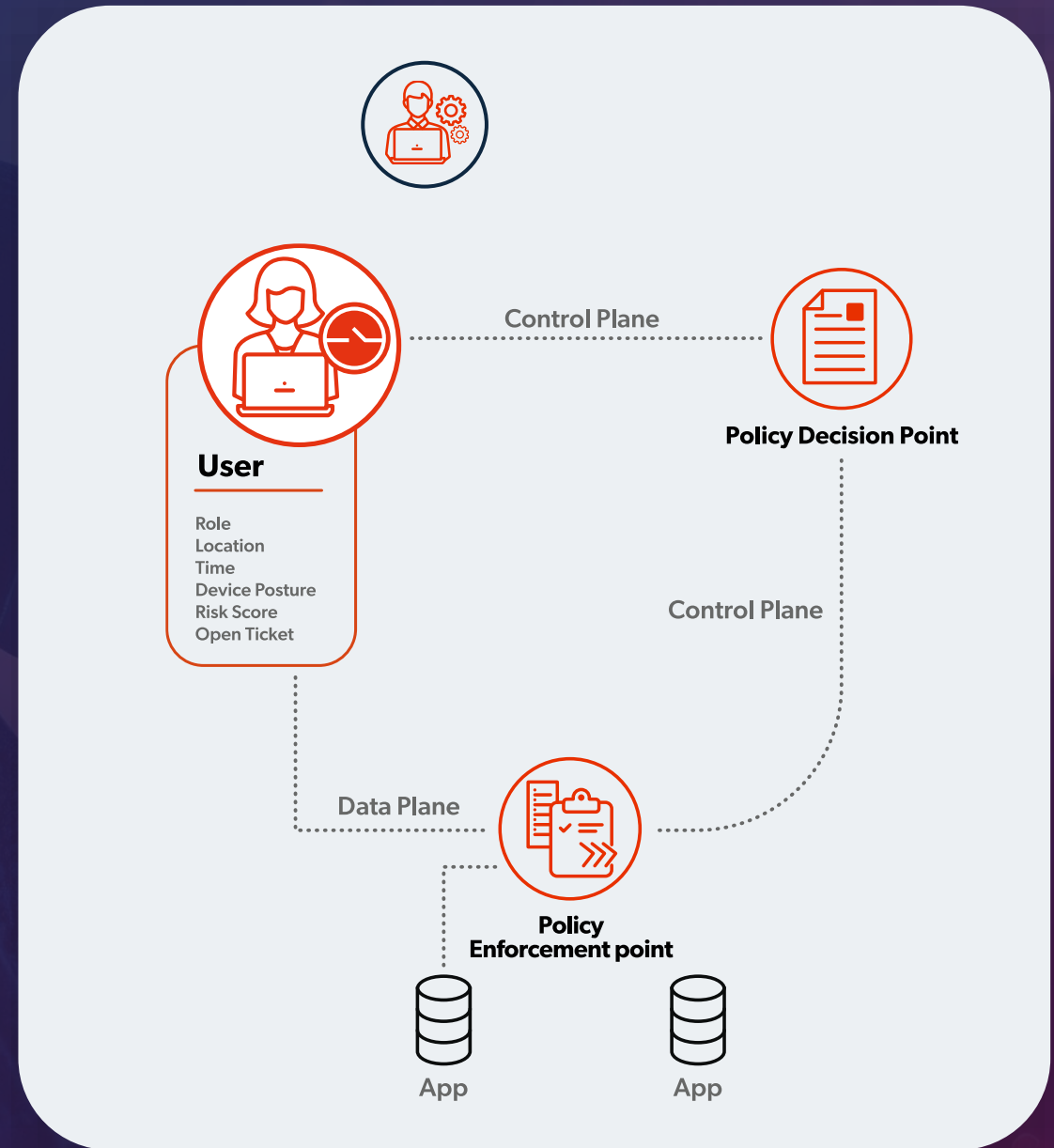
Zero Trust Network Access is a security solution that helps organizations take a significant leap in achieving their Zero Trust goals. Originally termed as a software-defined perimeter, ZTNA delivers a modern architecture that replaces legacy, failing hardware solutions like VPN and NAC with a unified policy engine for all users, workloads, and devices.

Cloak all resources and make the attack surface invisible
Use context and risk cues to deliver just in time, just right access for everyone and everything
Simplify access management with a unified policy engine
Scale and interoperate easier with a software-defined, API-driven architecture

Contextual access to workloads

The bread and butter of Zero Trust Network Access

- Cloak all infrastructure and enforce “default deny”
- Unify access policies across all heterogenous workloads
- Enrich policies using context and threat cues
- Automate policies for dynamic entitlement adjustments when context and/or risk changes
- Choose the right deployment model
- Don't forget to secure resource-to-resource connections



Zero Trust Network Access: The Right Way Forward

Zero Trust Access

Phase Out Legacy Technology

Replace and reduce outdated, insecure legacy access and network technologies

Transform Enterprise Networks

Replace legacy enterprise security controls and simplify network architecture

Modernize Secure Access

Deliver the latest in secure access solutions for all users and resources across complex hybrid infrastructure, regardless of location

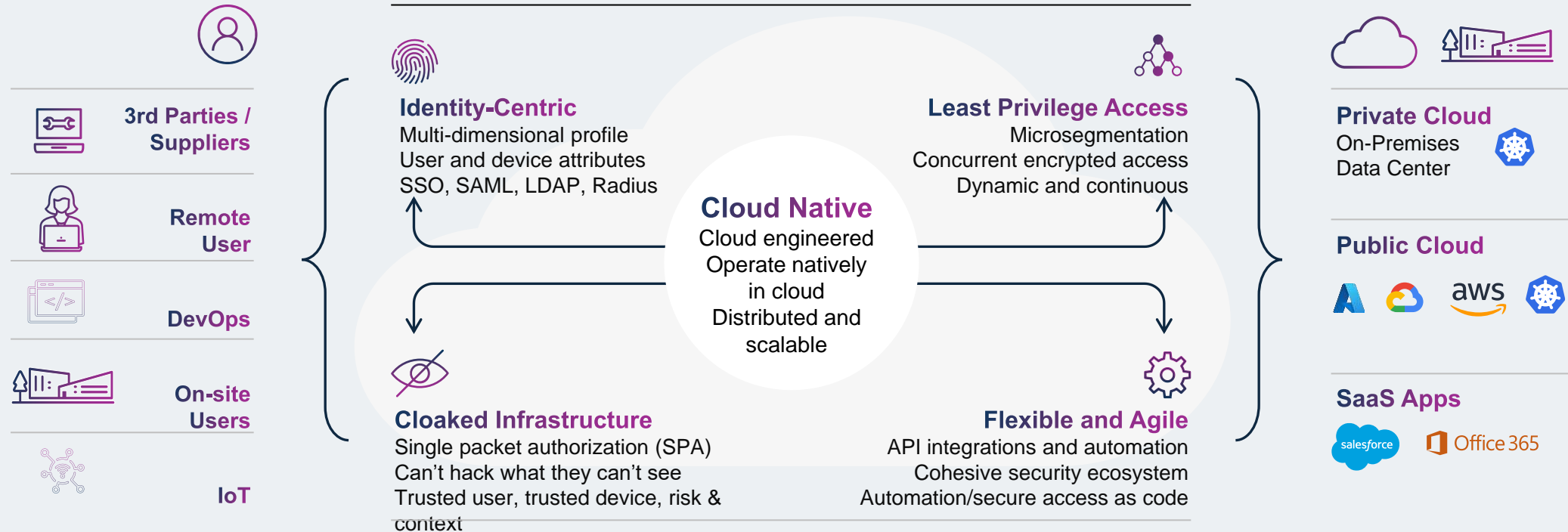
Reduce Operational Overhead

Decrease security admin overhead, delivery times and operational challenges, while increasing cost savings and business ROI

Universal ZTNA: Secure Access For All

Appgate SDP Zero Trust Network Access

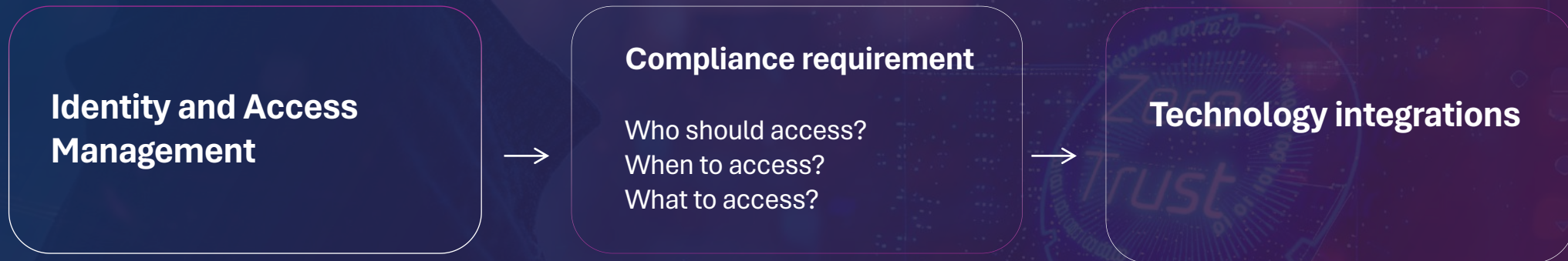
User-to-Resource | Resource-to-Resource



Unified Policy Engine

Centralized management | Consistent policies, monitoring and logging

Practical Considerations for Zero Trust Implementation



Think big, start small, scale fast

Understand the business value

Challenges



Challenges

Design Principle

- Agile, Consolidate, Simplify, Optimize.

Security Requirements

- Need to fortify security at branches.
- Looking for a cloud-based control plane for better visibility and management.

New Acquisitions and Mergers

- Need for cross-business application access.
- Addressing gaps in security controls.

Tech Refresh

- Approaching tech refresh of WAN solution.
- Evaluation of SD-WAN solutions.

Hybrid Cloud & Hybrid users

- Changing perimeter with hybrid cloud adoption.
- Integration with multiple data centers and IaaS.
- Need for backend integration, and developer access for partners and in-house teams (DevOps and content teams).

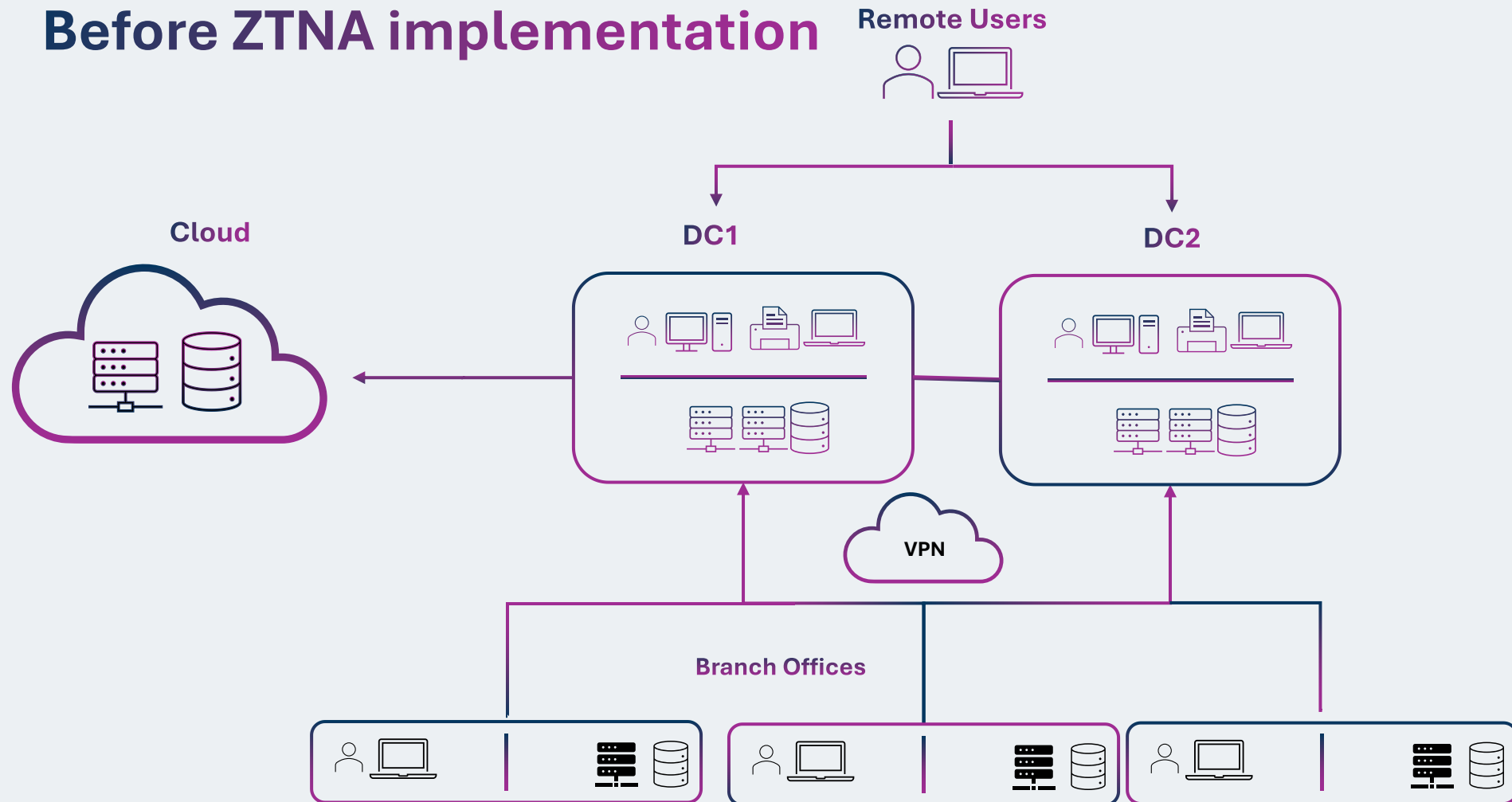
Local Services Challenges

- Local services like file servers for subsidiaries are not consolidated due to latency, bandwidth, and capacity challenges.
- Hub-spoke multi-point VPN architecture is used to avoid hits on costly leased lines at data centers.

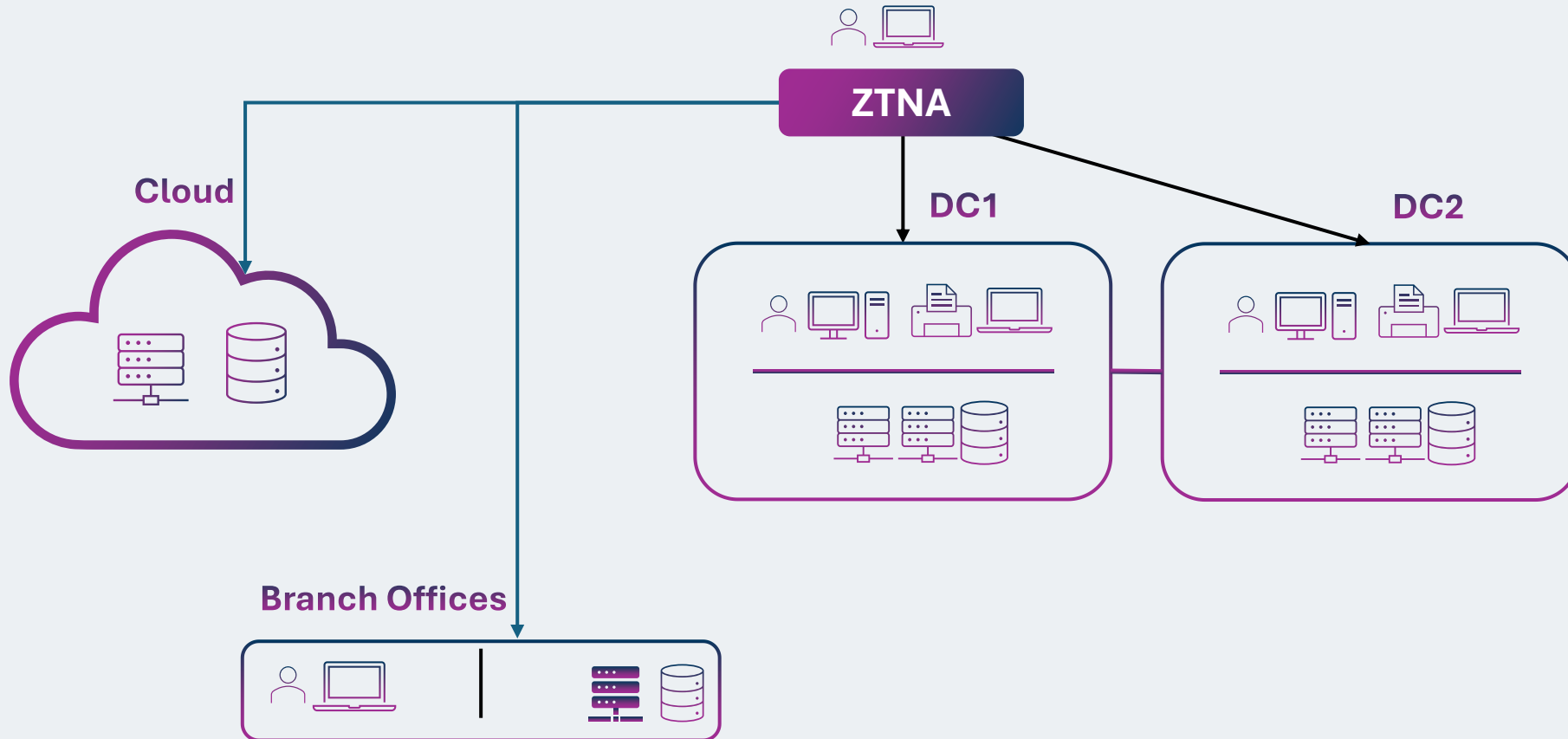
Approach & Solution

- Evaluation of **SD-WAN** and cloud-based **SDWAN/SASE solutions**.
- POCs conducted; high TCO due to variable costs as data flows through the service provider cloud (egress charges) and lack of support for hybrid or on-premise deployments.
- Sometimes we felt our requirement for a client-based multipoint connectivity is an unrealistic dream.

Before ZTNA implementation



After ZTNA implementation



Remote Users / Branch / Office users / Third-party

Increased Agility, Better Consolidation, and Simplified network!



Operation costs Efficiency

- Eliminated SDWAN investment, achieving significant network cost savings.
- Simplified operations and reduced overhead, enhanced agility.
- Same level of security anywhere.



Network

- Moved to cafe model networks with Internet and local services.

Enhanced Security with improved user Experience

Hybrid identity, MFA, and posture verification.

Micro-segmentation

Dynamic granular access

Continuous validation

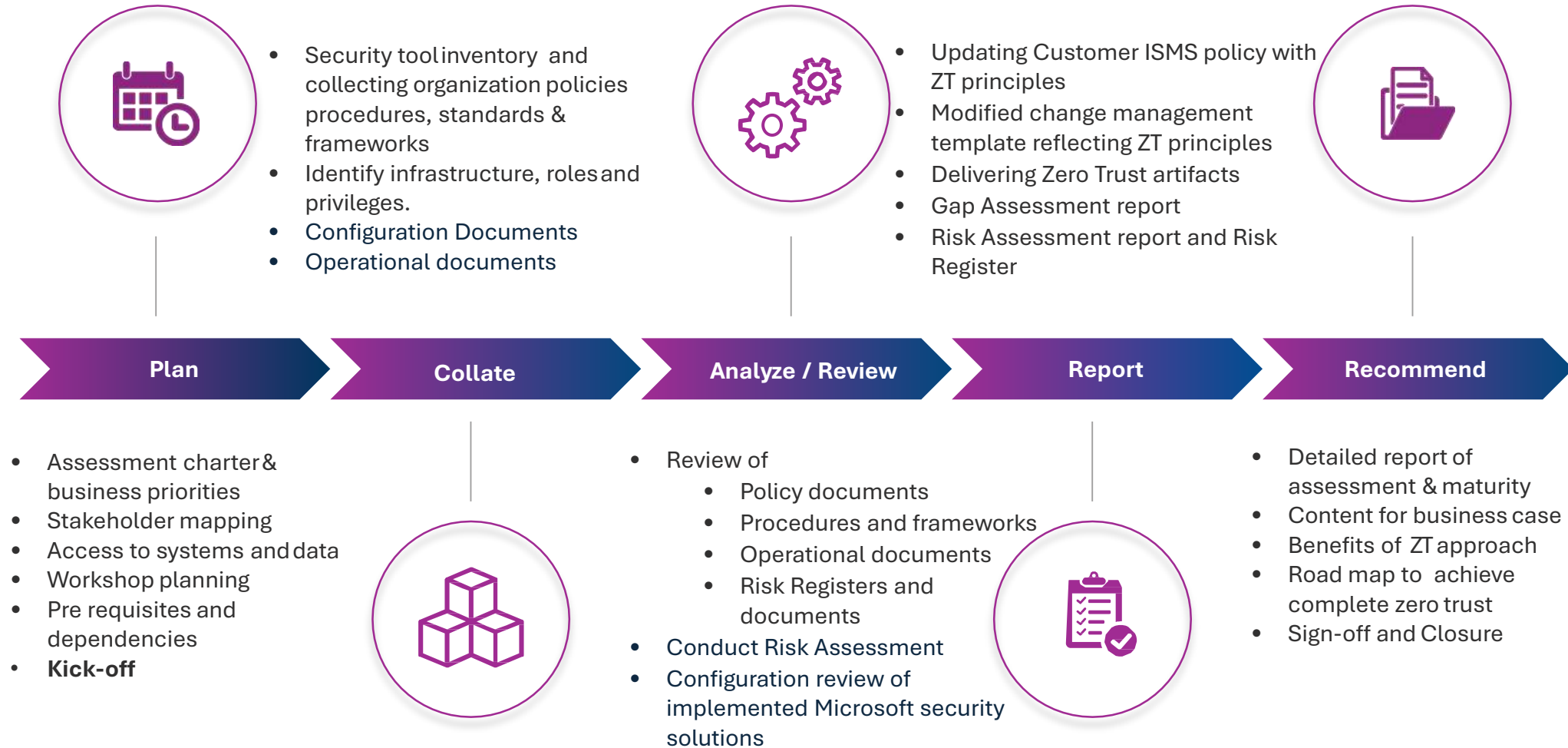
Centralized policy engine

Quick onboarding of new acquisitions.

Unified and better user experience.

Predictable cost due to direct routed ZTNA.

Our Engagement Approach – Embarking a ZERO TRUST journey



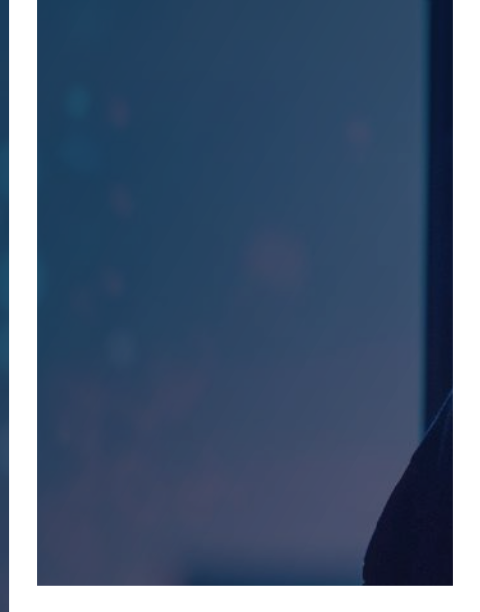


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**Ask us
anything**





Thank You

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