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Agile and automated security for Modern data centers

Cisco's Secure Data Center Solution

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TCRSEC-2178

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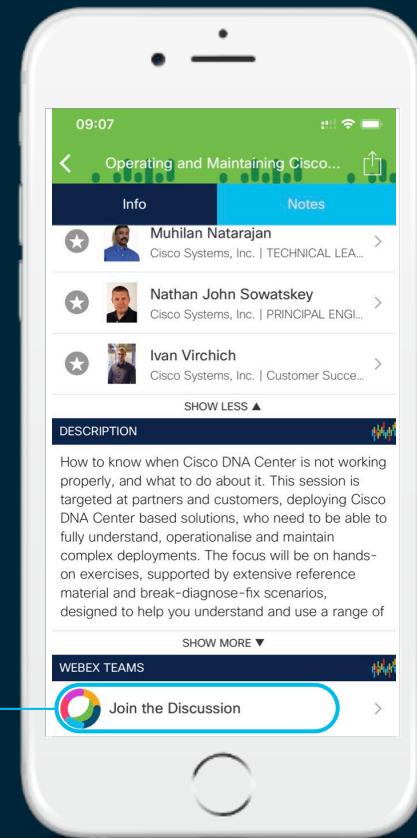
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Agenda

- Secure Data Center
- Business needs
- Top Security challenges
- Requirements for Data Center Security
- Cisco Data Center Security Offers
- Where are we headed?

Today's Data Center is Complex

Application Demands
Continuous development | Micro-services | APIs

Infrastructure Demands

Software-defined everything
Multi-cloud orchestration
Workload portability



Security Demands

Limit exposure
Detect/prevent and remediate threats
Implement a zero trust model

Aligning to Business Needs

Business Objective: Drive innovation

- Modernize infrastructure / SDN / private cloud
- Multi-cloud (support legacy AND next-gen)
- Secure applications



Business Objective: Improve operational experience

- Enhanced visibility
- Actionable analytics
- Optimized application experience



Traditionally security is seen as an inhibitor, not a business enabler.

- Limited threat visibility across networks, workloads, applications, etc.
- Inconsistent policies across environments / workloads
- Attack surface is too broad and growing
- Motivated hackers and increasingly stealthy, sophisticated threats
- Too complex, too many alerts, too much noise
- Users, devices and data everywhere
- Automation and orchestration
- Compliance and audits

Top Security Challenges for Data Center



Requirements for Data Center Security



01



02

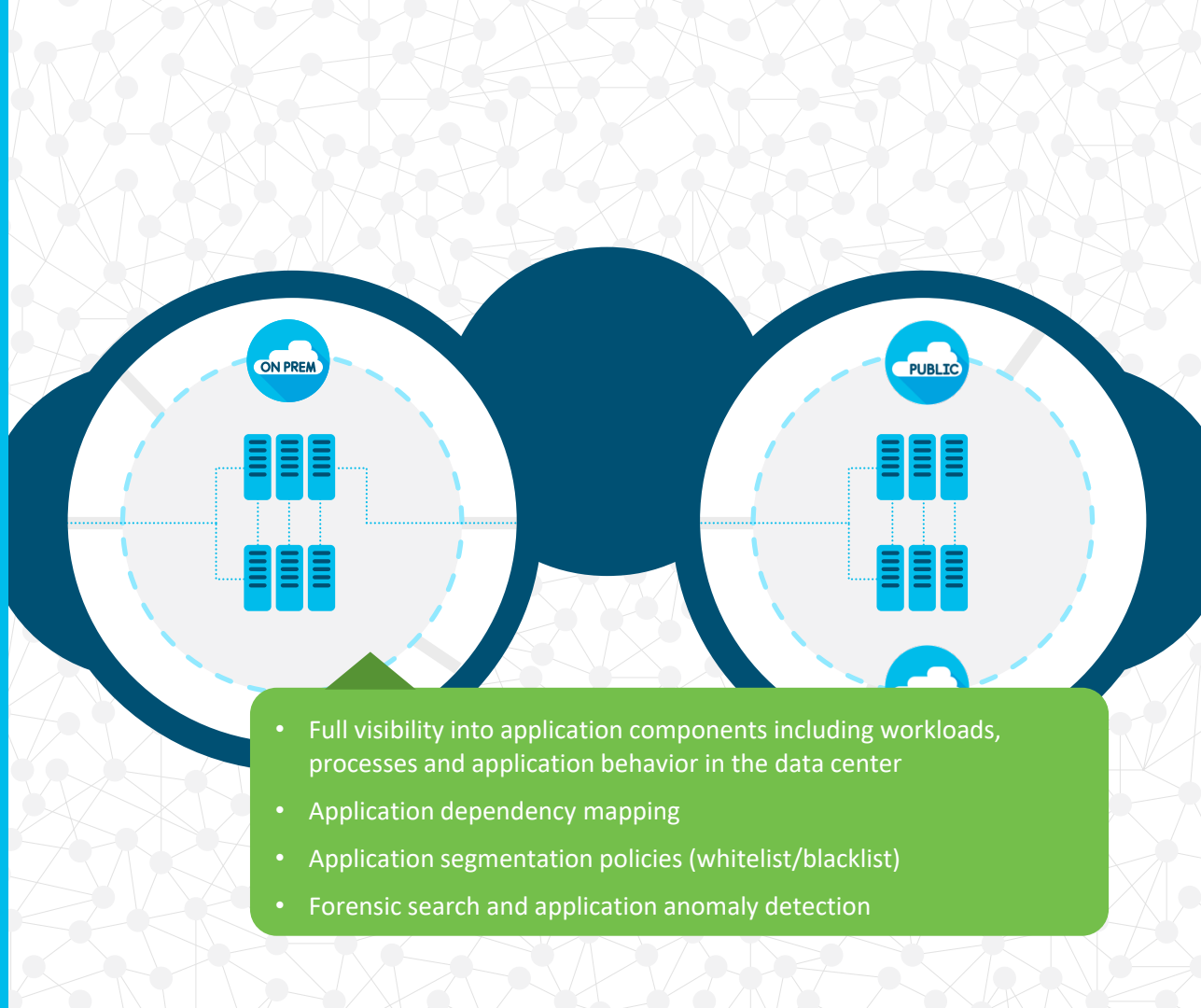
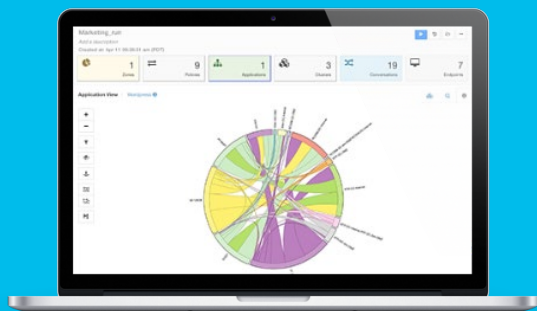


03



Visibility: See Application Components & their Behavior

Cisco Tetration
Cisco Stealthwatch



- Full visibility into application components including workloads, processes and application behavior in the data center
- Application dependency mapping
- Application segmentation policies (whitelist/blacklist)
- Forensic search and application anomaly detection

01



02



03

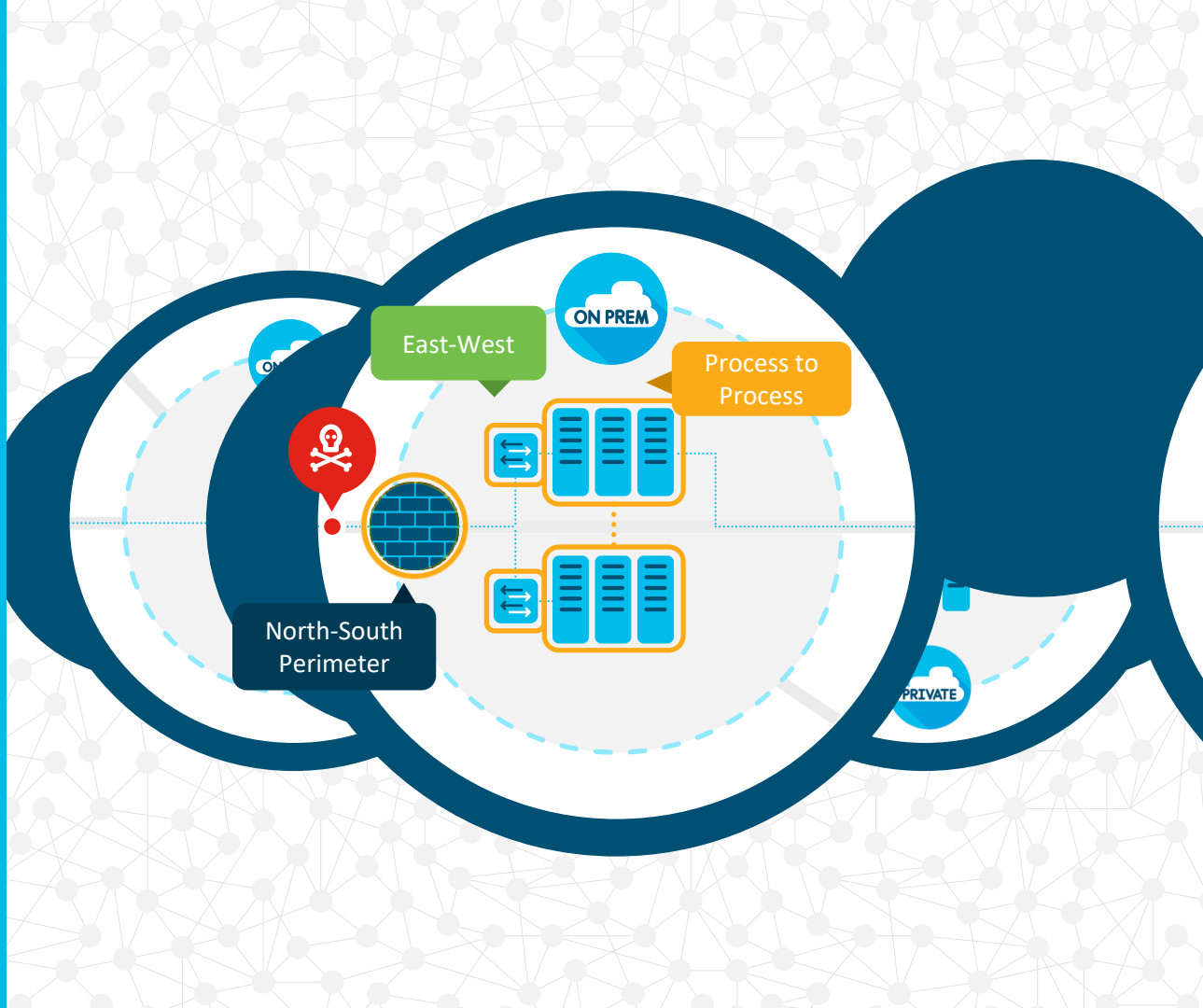


Segmentation: Reduce the Attack Surface

Cisco NGFW

Cisco ACI

Cisco Tetration



01



02



03

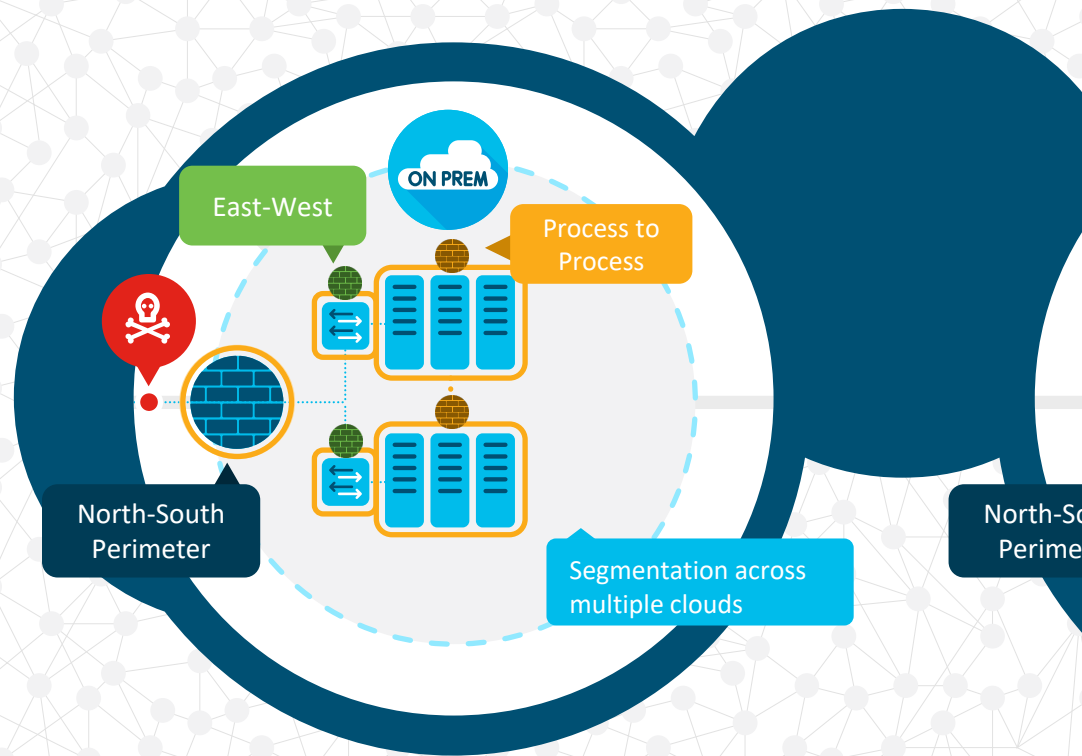


Segmentation: Reduce the Attack Surface

Cisco NGFW

Cisco ACI

Cisco Tetration



01



02



03



Threat Protection: Stop the Breach

By strategically
deploying threat
sensors north-south,
east-west

Multi-Layered Threat Sensors

Quickly detect, block, and respond dynamically when threats arise to prevent breaches from impacting the business



Cisco ACI

Cisco Tetration

Cisco Secure Data Center Solution Pillars



Visibility

Network and
application analytics

Stealthwatch

Tetration

Firepower Threat Defense
(FTD) and AMP



Segmentation

Firewalls and application
segmentation

Firepower Threat Defense

ACI

Tetration and ISE



Threat Protection

Threat detection, blocking,
and automated response

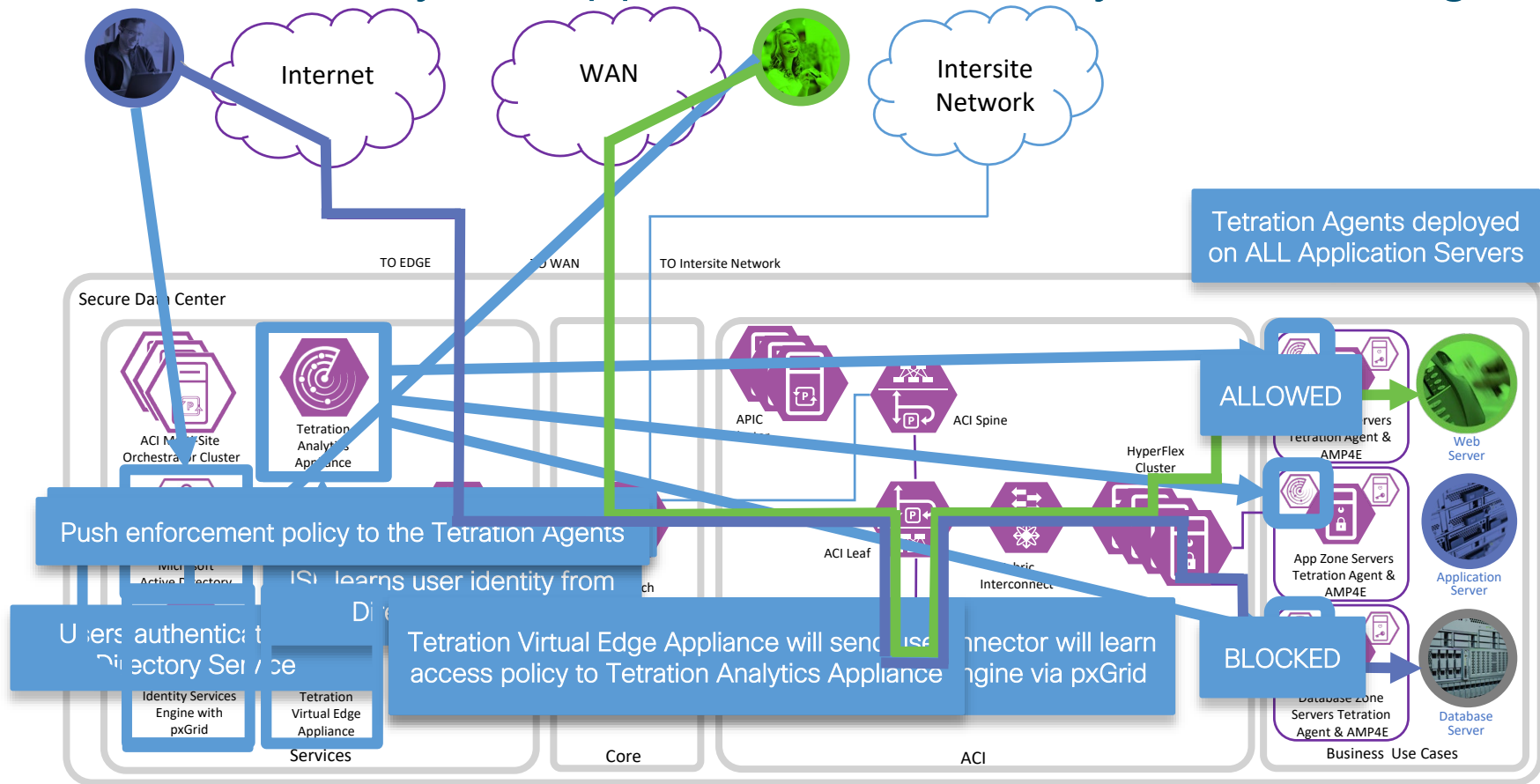
FTD and AMP,

FTD and ACI

FTD and Tetration



Tetration Analytics Appliance and Identity Services Engine





Thank you



Cisco Secure Data Center Validation

Multi-Site ACI Reference Design

Themes:

Visibility, Segmentation, Threat Protection

Primary Products:

Firepower Threat Defense, ACI, Tetration, Stealthwatch and AMP

Focus:

Integration Drives Differentiation

Available NOW

- SAFE Secure Data Center Design Guide (CVD)

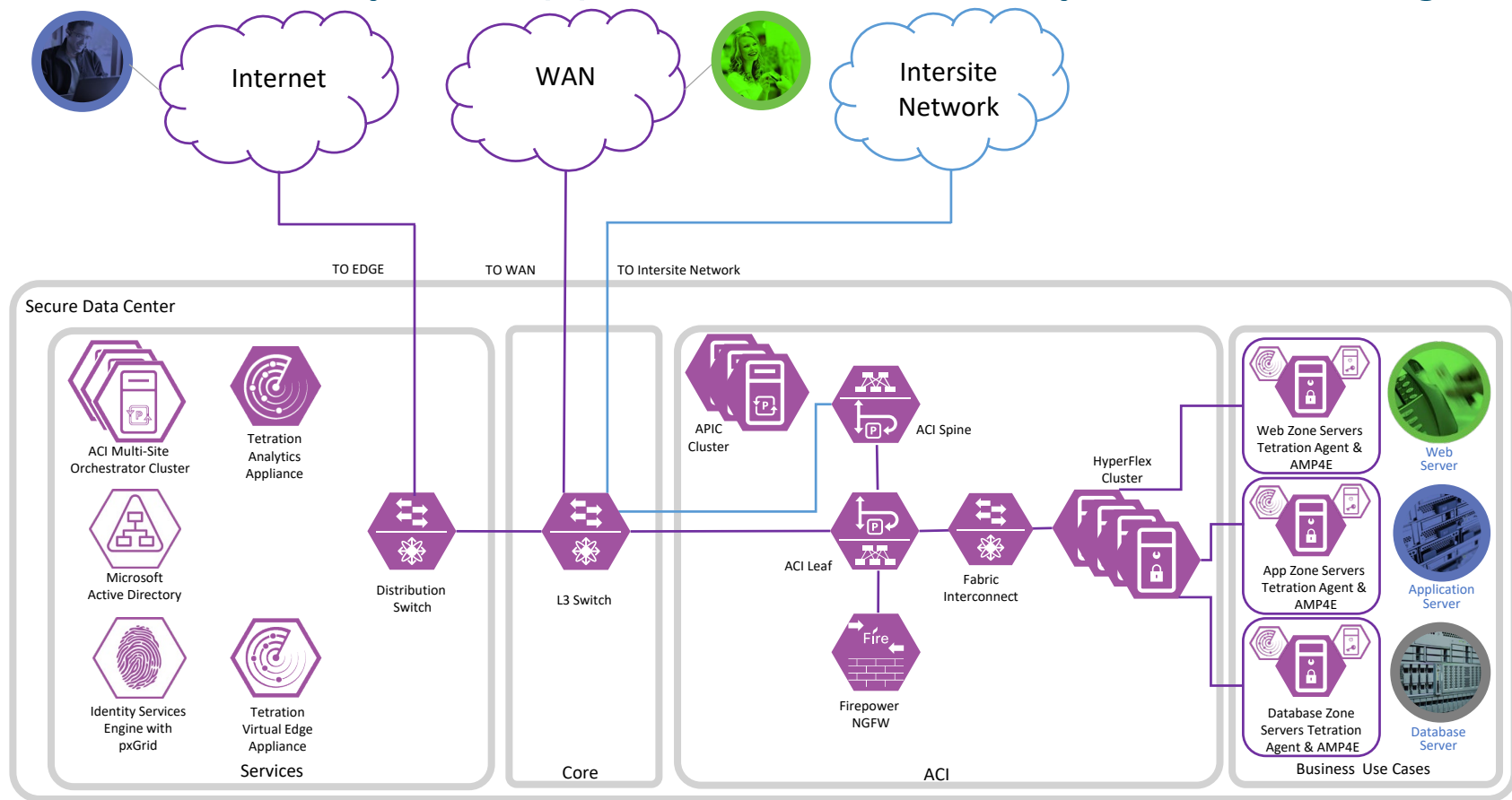
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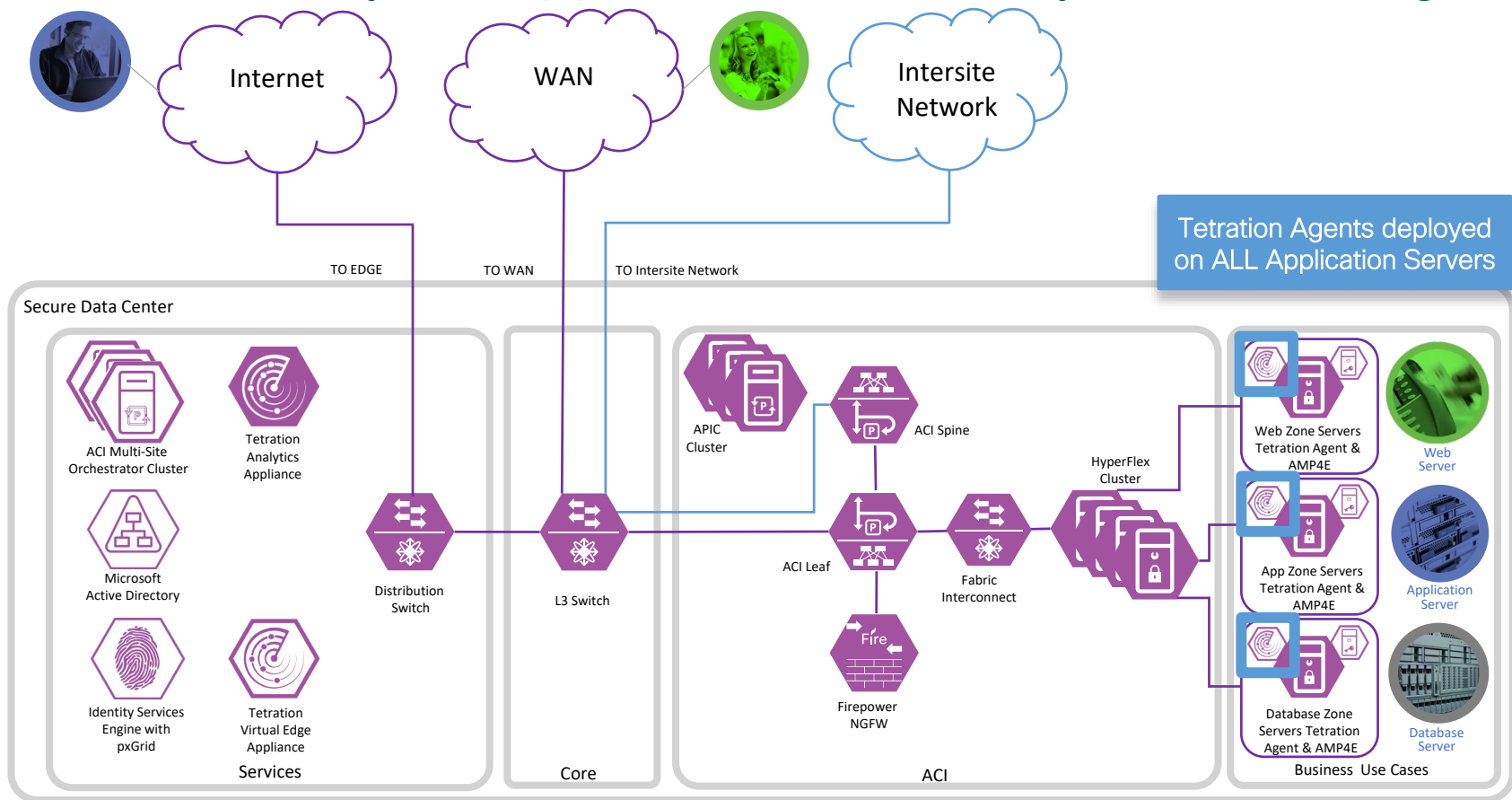
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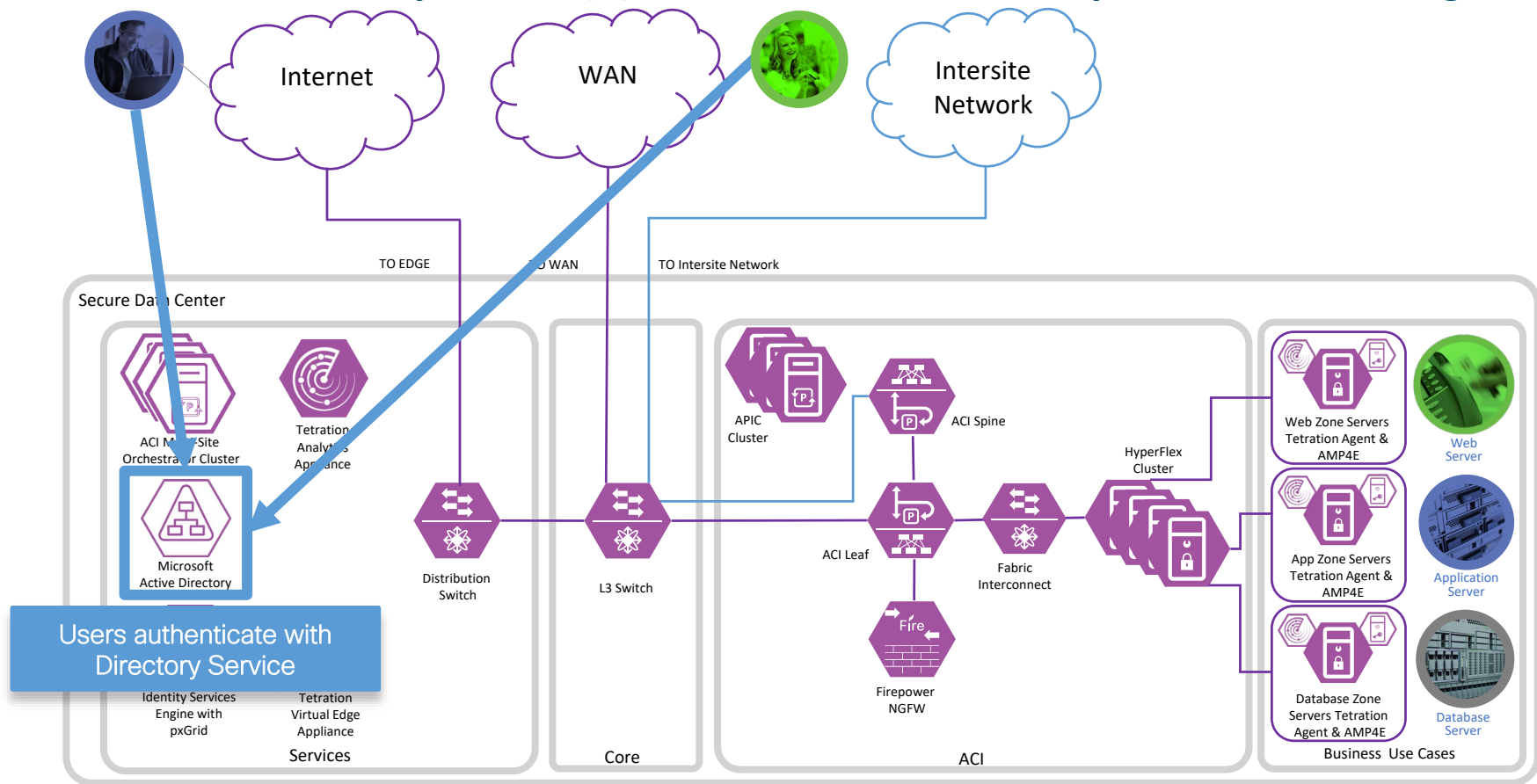
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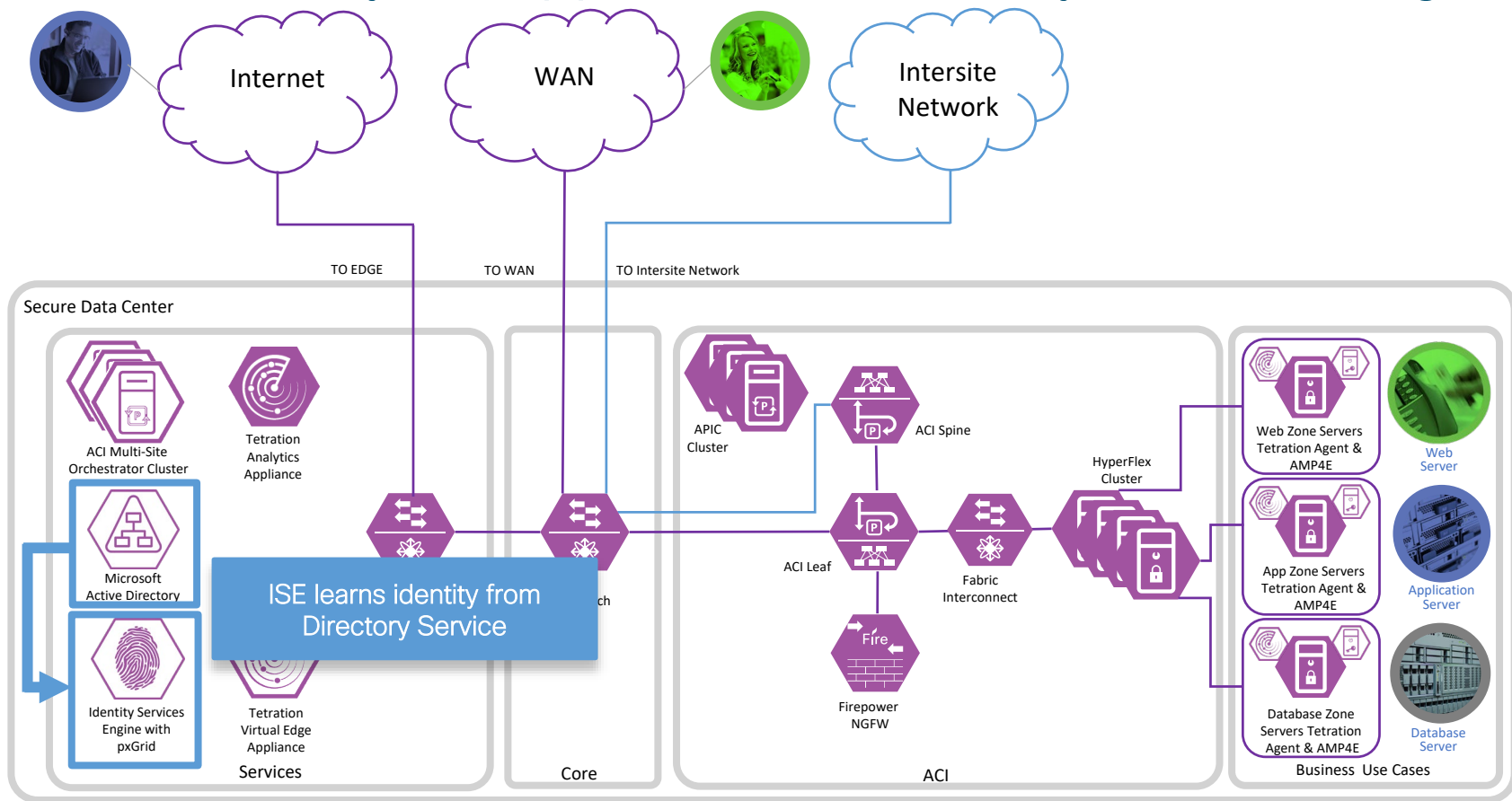
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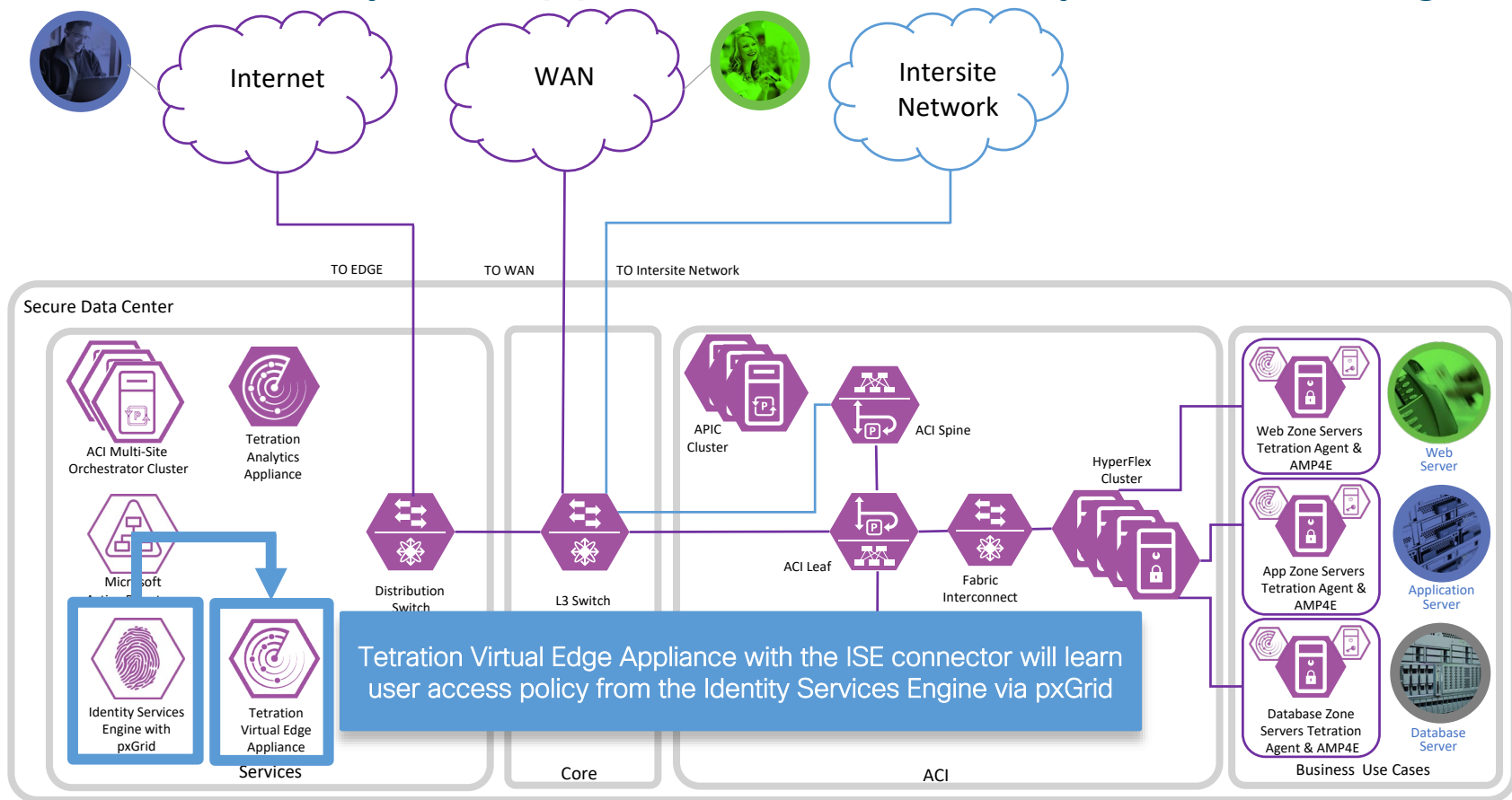
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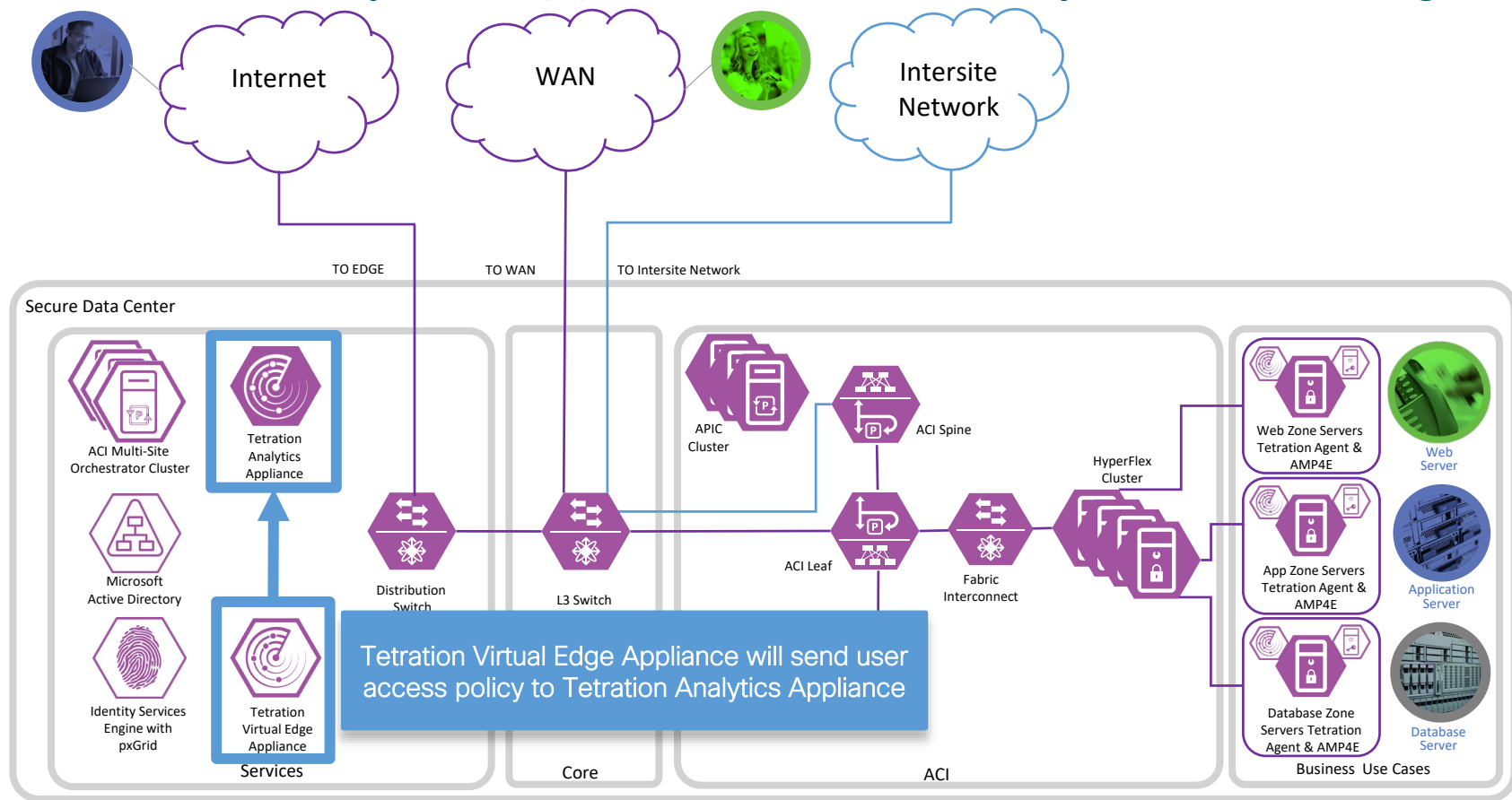
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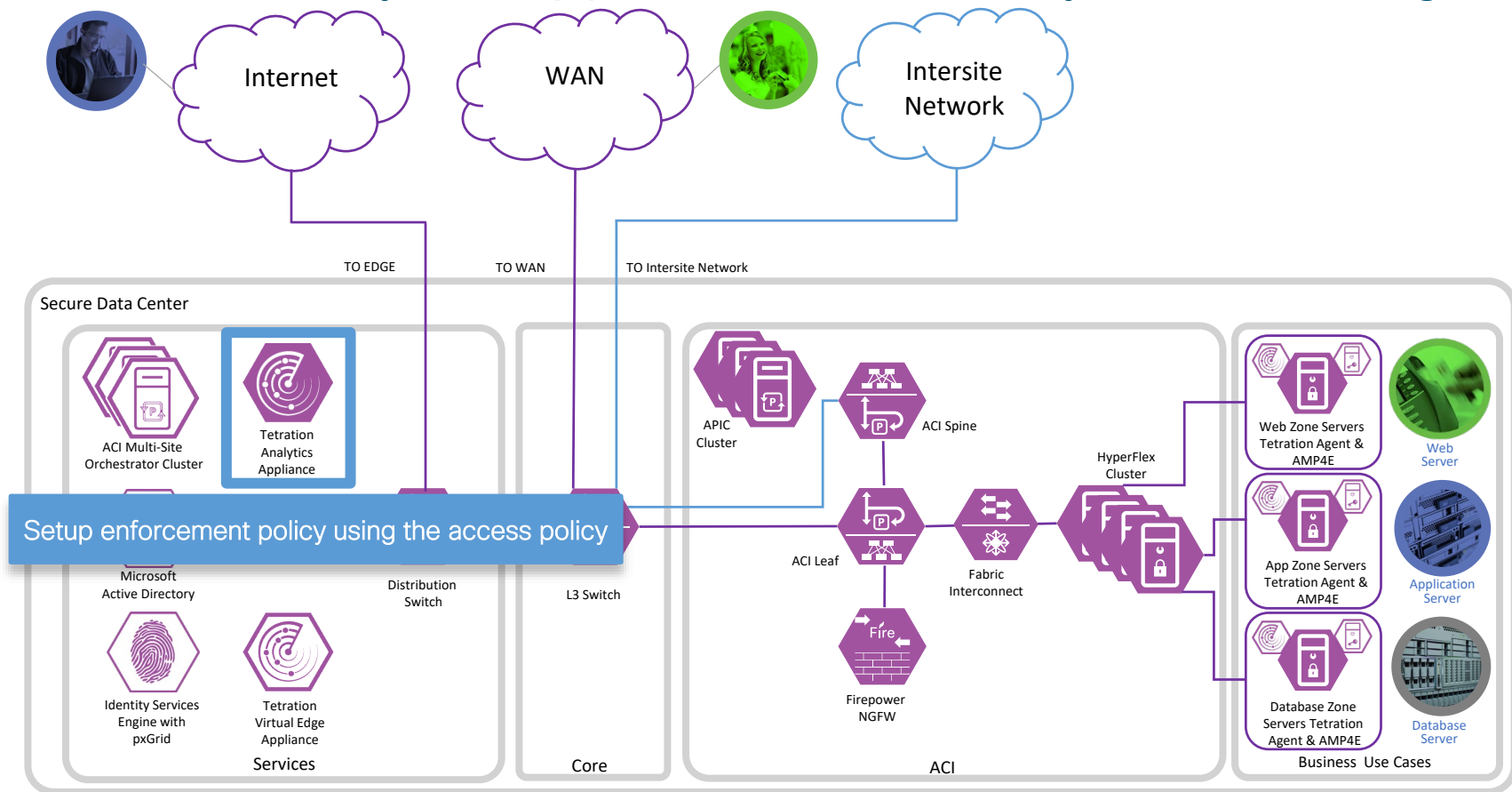
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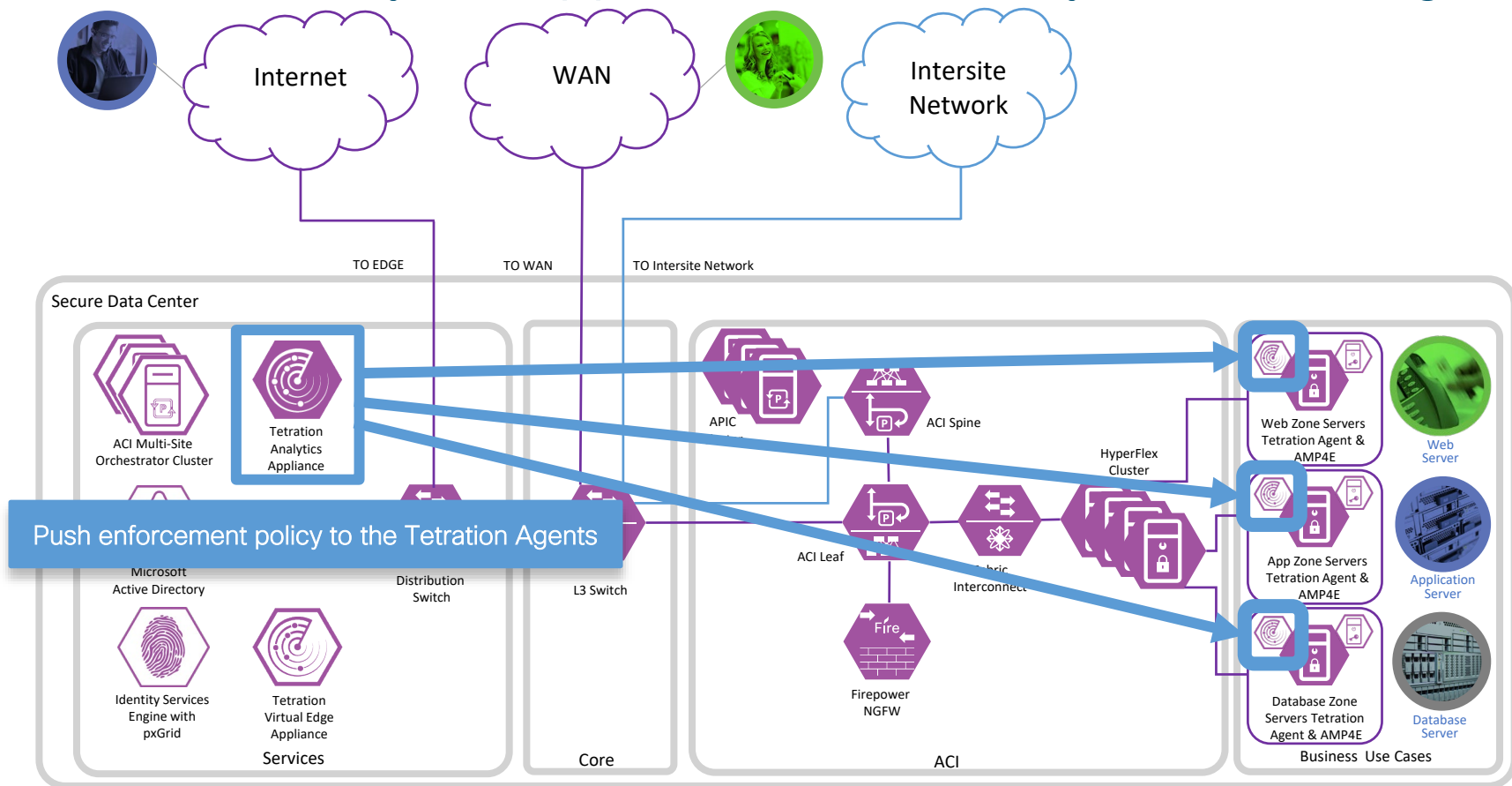
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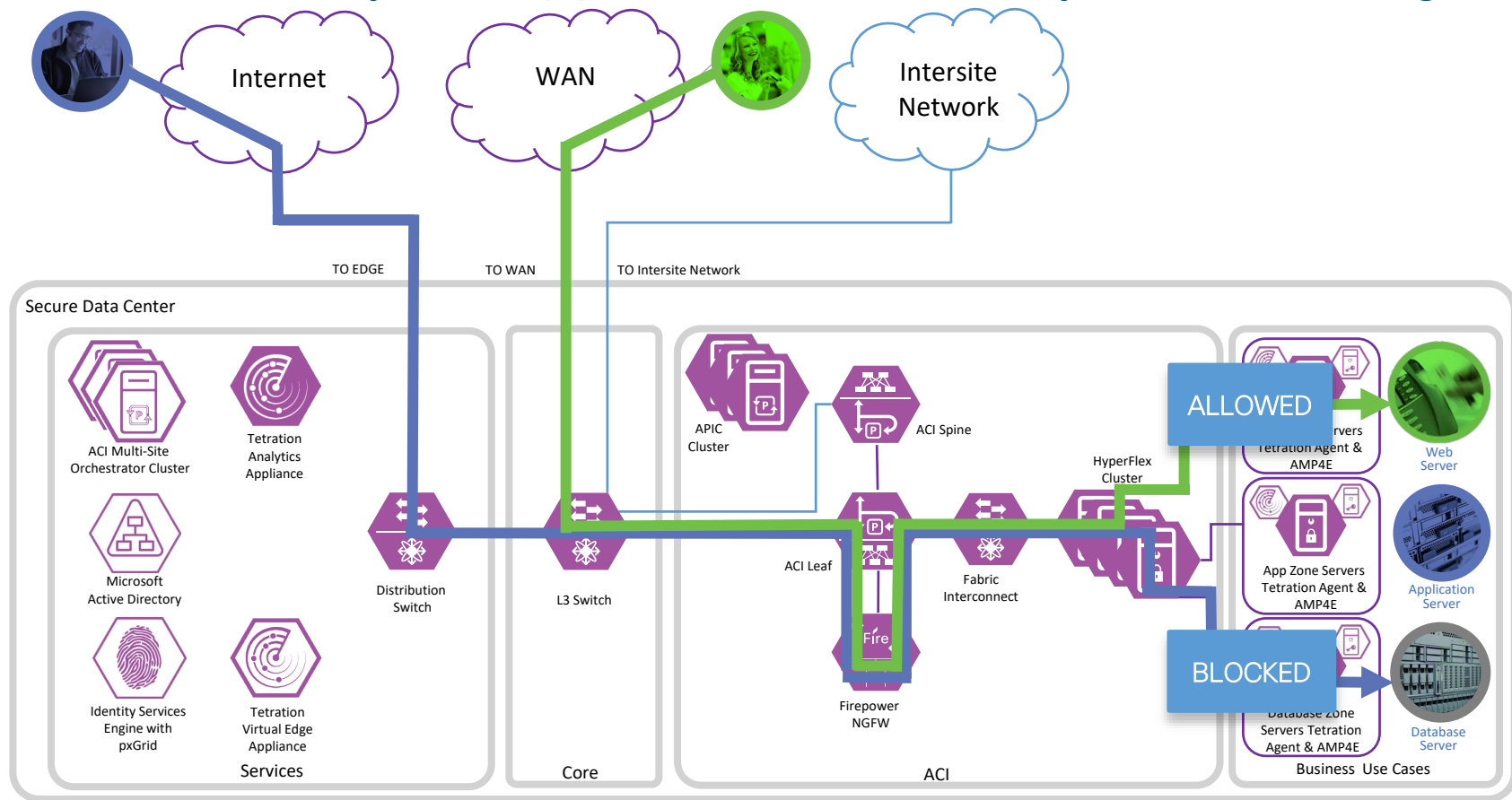
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