



# Learn & Sail July 2019



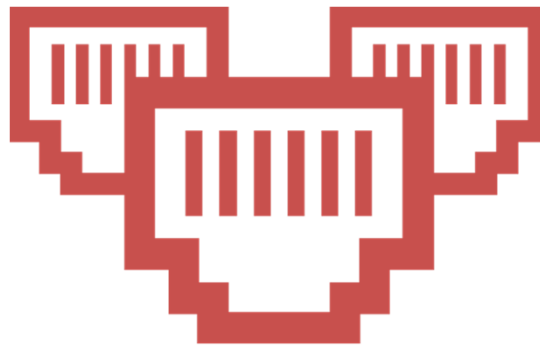
# **Introduction**

# Digital Transformation at the remote branch

Expansion at the WAN edge



**Cloud Enabled**



**Reduce WAN Cost**



**Simplify Operations**

# Networks Must Change to Adopt Digital Initiatives

**70%**

Applications moving to  
Cloud in 2019

**50%**

Annual increase in  
bandwidth due to Voice  
and Video

**79%**

Percent of Network  
Changes are manually  
driven

# Fortinet Security Fabric

## BROAD

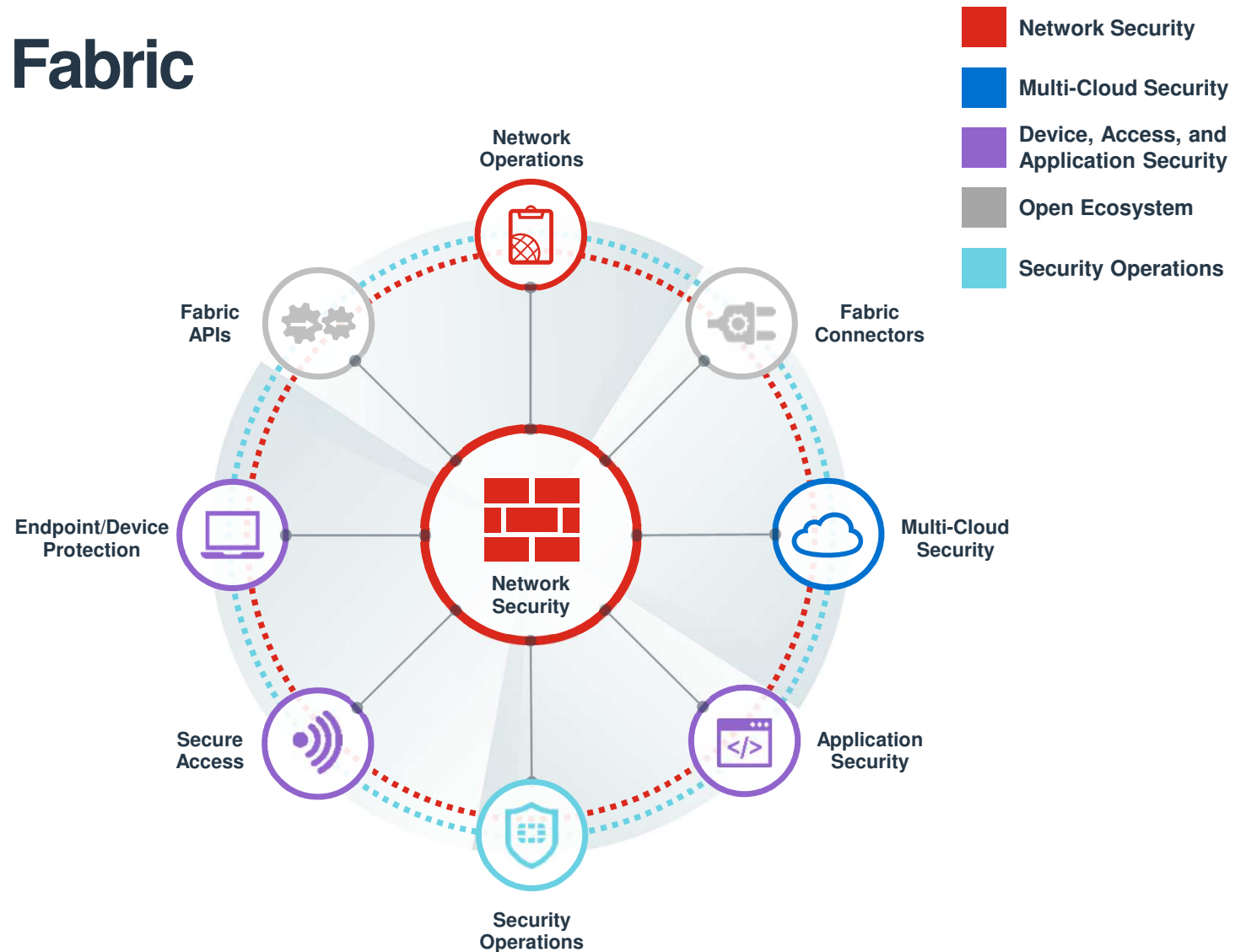
Visibility of the entire digital attack surface

## INTEGRATED

AI-driven breach prevention across devices, networks, and applications

## AUTOMATED

Operations, orchestration, and response



# Multi-Functional Security Platform



Accelerated Firewall IPv4 IPv6



SSL & IPsec VPN (+ADVPN)



Dynamic Web Filtering



Anti-Virus & Anti-Botnet



IPS & IDS



Application Control & DLP



Wan Optimisation  
(Cache, Explicit Proxy, Reverse Proxy)



**FORTINET**  
**SECURITY**  
**FABRIC**



Virtual Domains & vClustering



Advanced HA



Cloud / on-Premise Sandboxing



QoS & Traffic shaping



Identity & Device Awareness



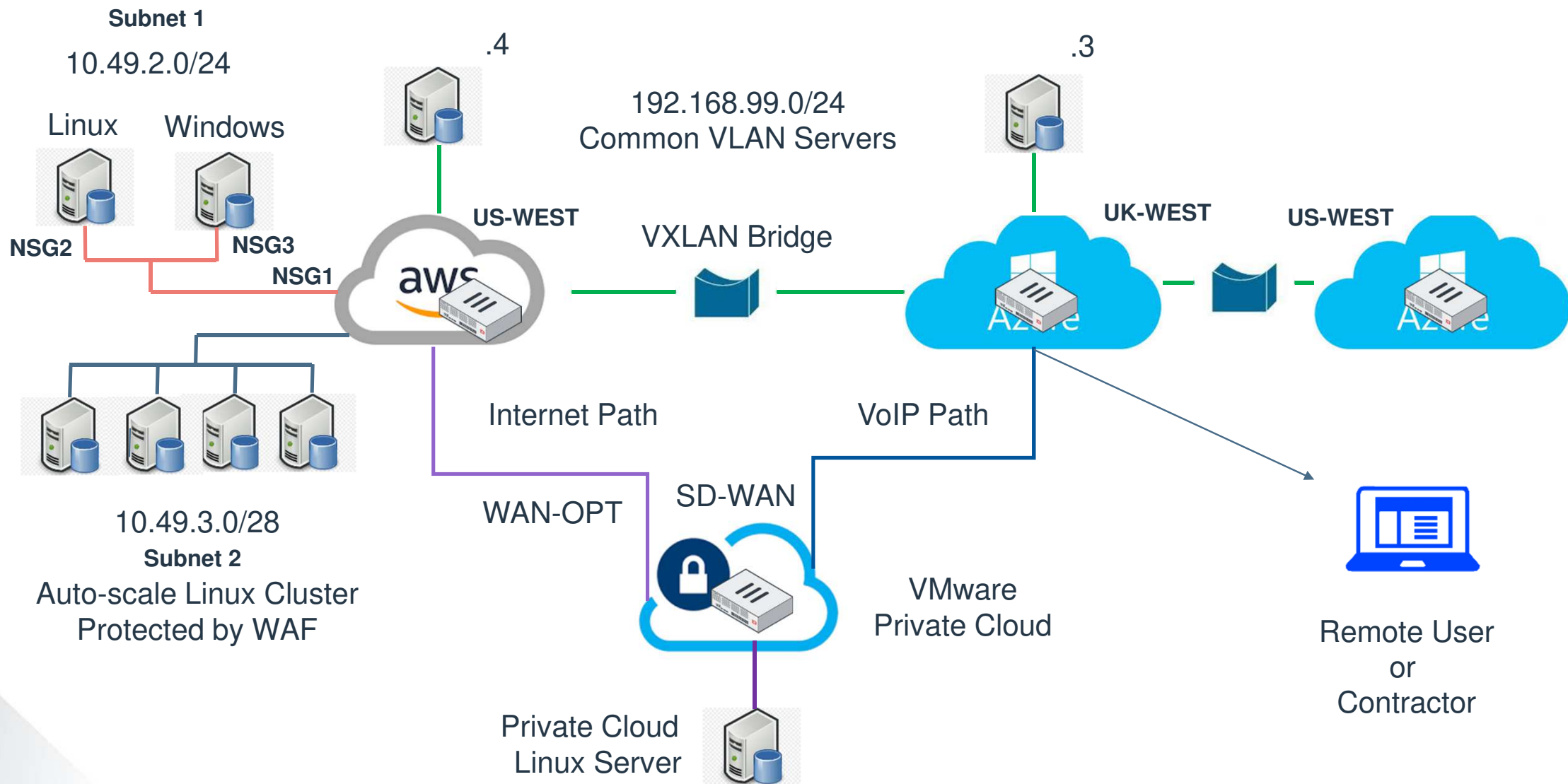
Advanced SD-WAN & VXLAN  
Routing OSPF, BGP, ISIS, RIP, PIM



Mobile Security & Endpoint Control



**VxLAN**







# **SD-WAN & SD-Branch**

# Challenge: New WAN and Access edge paradigm

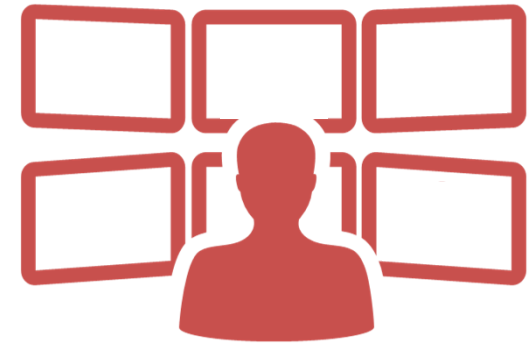
Each user and device now represents an edge



**Lack of Visibility**  
**Poor Performance**



**Secure multiple**  
**network edges**

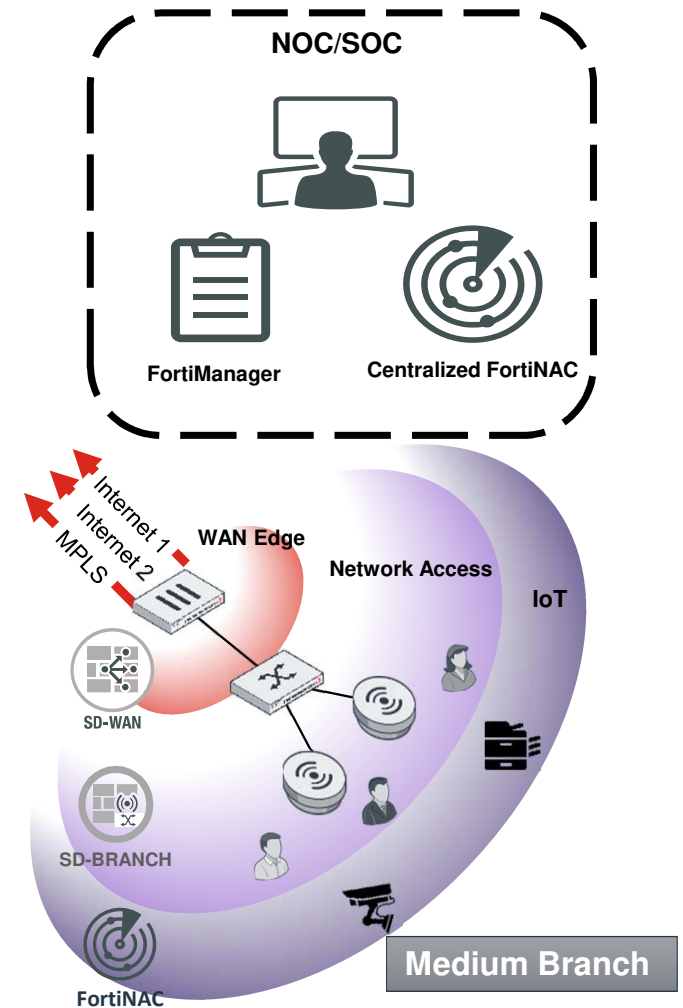
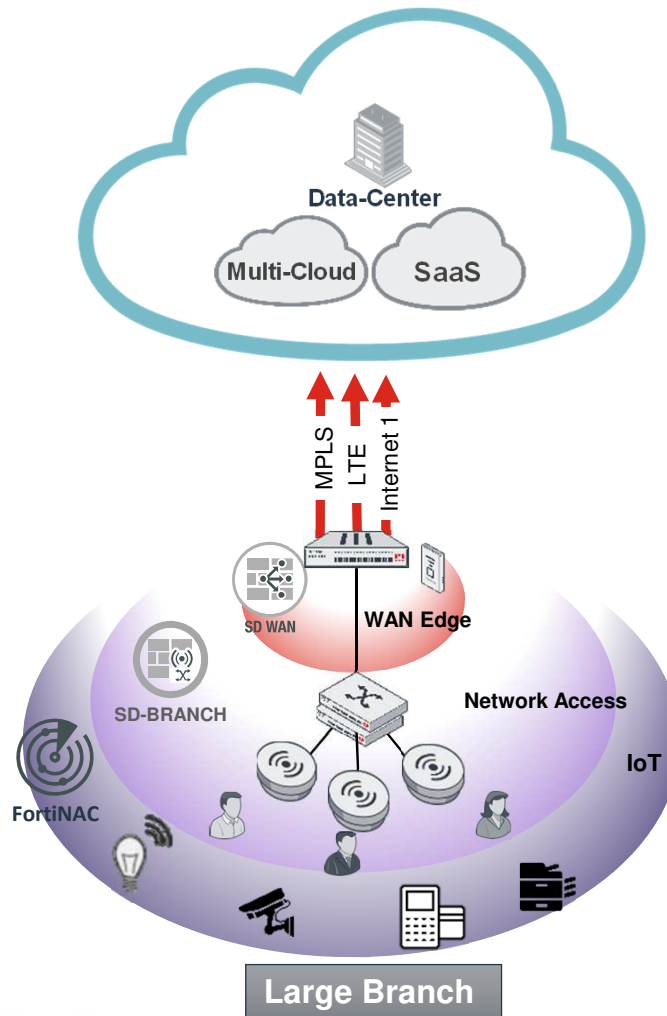
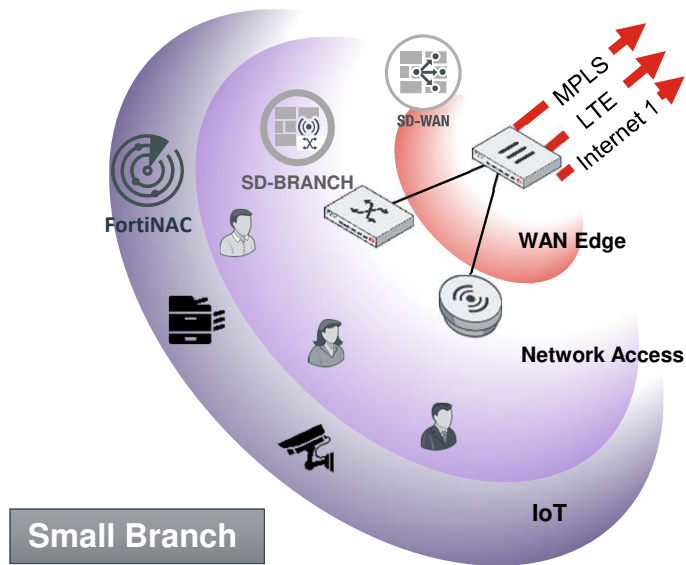


**Complexity**  
**Too many point products**

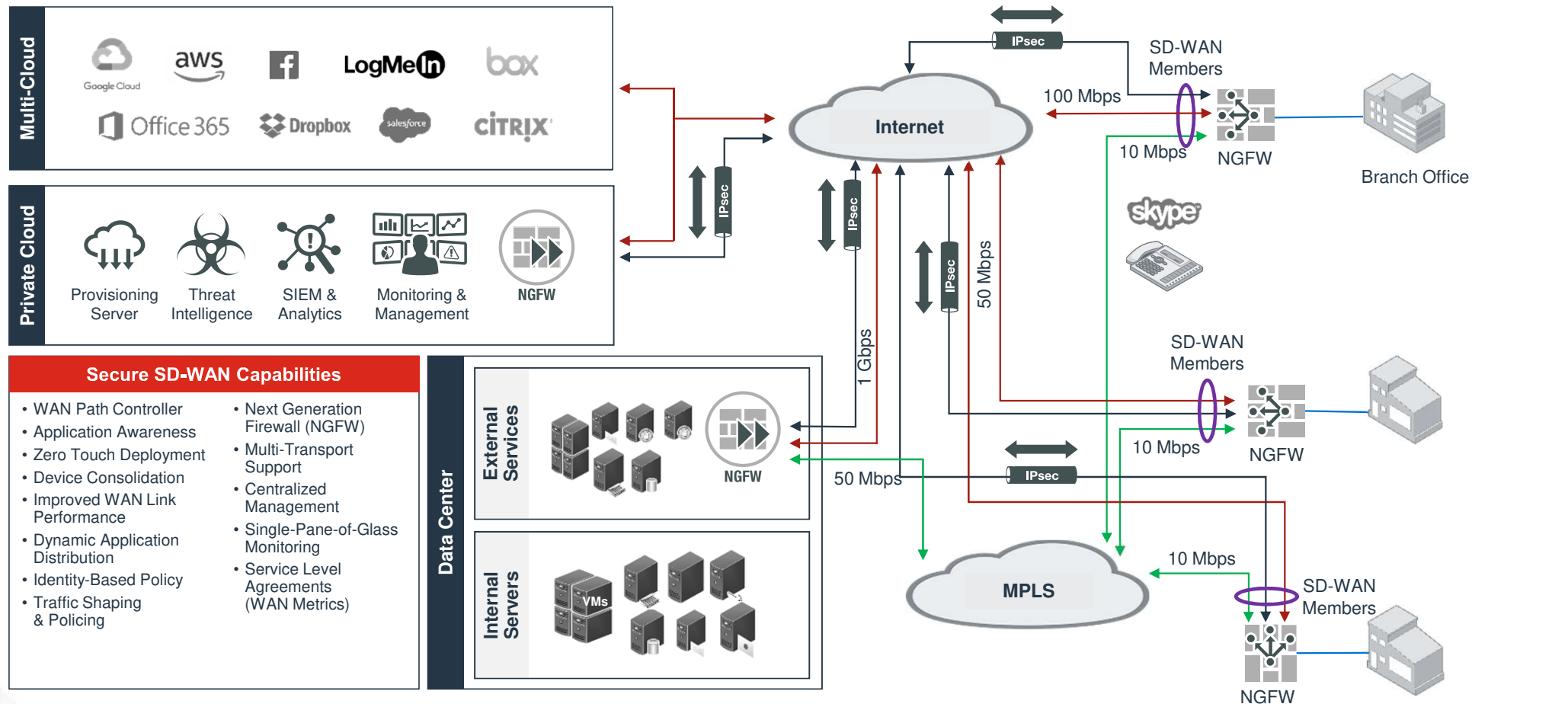


# Secure SD-Branch Deployment

Simplified Management  
Integrated Security  
Lower TCO

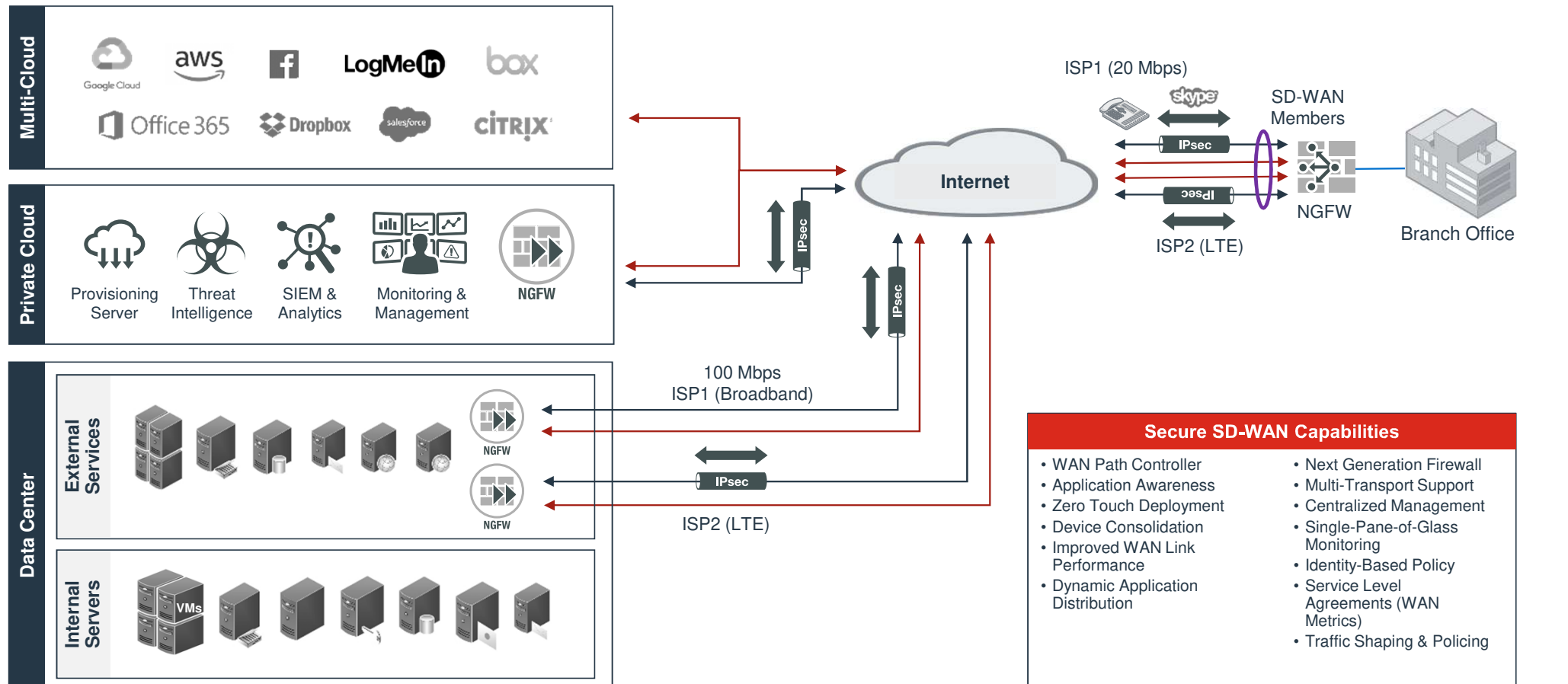


# Reduce WAN OpEx with Direct Internet Access



# Redundant Connectivity Enterprise Branch

## Broadband with LTE Direct Internet Access





# **FortiCASB & Shadow IT**

# SaaS Types



## SANCTIONED

- Approved by IT
- IT Accountable
- Managed Centrally



## TOLERATED

- Allowed by IT
- User Accountable
- Managed by User



## UNSANCTIONED

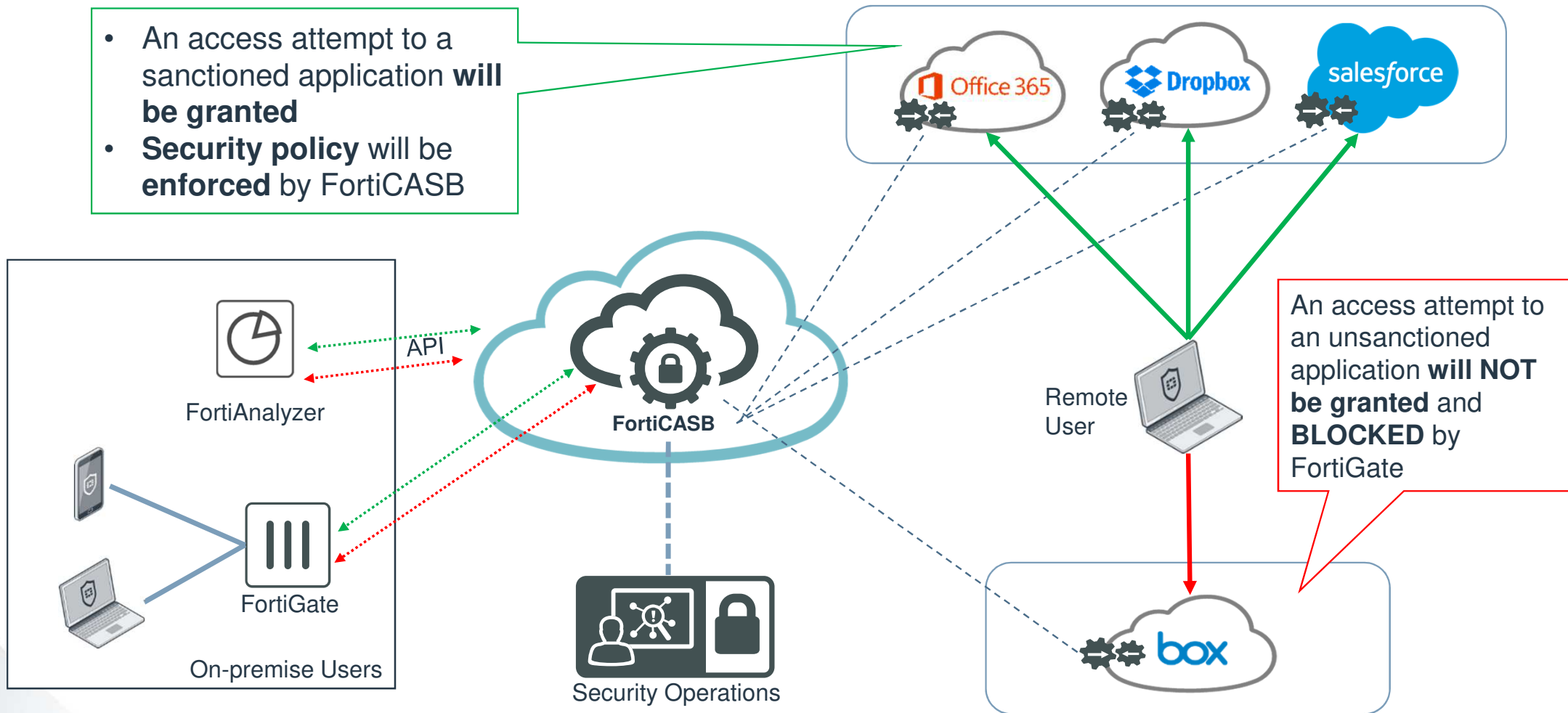
- Blocked
- User Accountable
- Managed by User





# Fabric Use Case: Access to risky, unsanctioned application

- An access attempt to a sanctioned application **will be granted**
- **Security policy** will be enforced by FortiCASB



# FortiCASB

- Overview
- Dashboard
- Report
- C-Level
- Compliance
- Shadow IT
- Audit Log
- Shadow IT
- Dashboard
- Application List
- Data Pattern
- Whitelist
- Group Ip

## All / ShadowIT / Dashboard



Connected

Last 90 days

### Usage of Unsanctioned Cloud Applications

#### Statistics

4 / 240

Unsanctioned Applications  
medium or higher risk

1%

21 / 863

Clients use cloud applications  
medium or higher risk

2%

108 / 1549694

Sessions belong to cloud applications

0%

#### File Insight

Files Stored in Sanctioned Cloud Apps

#### Top High Risk Apps

Akamai Operations Management	100	7 Clients
Leanplum Marketing Software	100	4 Clients
Shopify Web Tools	100	4 Clients
DING Project Management Tools	71	6 Clients
Admixer Business Intelligence Tools	55	3 Clients
bitly Marketing Software	50	1 Clients
Buffer Media & Entertainment	42	1 Clients
DigitalOcean Cloud Hosting	40	1 Clients
Bubble	39	3 Clients
Intel AIM Suite Retail & Consumer Services	39	5 Clients

#### Top Client Apps

Google Online Backup	10	34 Clients
Facebook Marketing Software	0	25 Clients
AWS Cloud Hosting	10	22 Clients
Fortinet Dedicated Hosting	0	19 Clients
Digital Global Hosting Web Hosting	0	18 Clients
Twitter Marketing Software	0	16 Clients
Cloud.net Cloud Hosting	0	13 Clients
icloud Cloud Hosting	0	13 Clients
CloudFlare Cloud Hosting	0	12 Clients
Criteo Marketing Software	0	12 Clients

#### Top Session Apps

Fortinet Dedicated Hosting	0	1065314 Sessions
Google Online Backup	10	460877 Sessions
Skype Dedicated Hosting	0	16779 Sessions
Facebook Marketing Software	0	13208 Sessions
Plex Systems, Inc. Operations Management	0	12804 Sessions
AWS Cloud Hosting	10	8943 Sessions
icloud Cloud Hosting	0	8847 Sessions
Criteo Marketing Software	0	5257 Sessions
salesforce Customer Management	10	4732 Sessions
Linkedin Human Resources	0	3256 Sessions

Uploads to Unsanctioned Applications and Personal Sanctioned Accounts



# **Nouveautés FortiOS 6.2**

# Highlights

## FortiOS 6.2

### EXPANDING FABRIC FAMILY



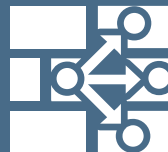
Spilt-task VDOM and  
FTNT Product Integration

### FABRIC CONNECTORS



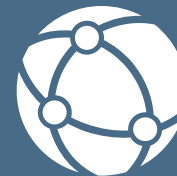
New SDN and Threat  
Feed Connectors

### SD-WAN



VPN setup and rule  
definition enhancements

### MULTI-CLOUD



Public Cloud extensions  
and FortiMeter Support

### AUTOMATION & DEV-OPS



Additional Triggers  
and Actions

### ADVANCED THREATS



Flow-based security profile  
Improvements

### IOT & OT



MAC Address  
Objects

### SOC ADOPTION



Consolidated risk View on  
Topology Map

### COMPLIANCE



FortiSandbox Cloud  
Region Selection

### UX / USABILITY



Enhancements to policy  
setup and visibility

# Fabric Connectors

## Threat Feeds Connectors



- Extends existing external list integration with new list types and usages
- supports username/password authentication while retrieving from external DB



Domain Name

Remote  
category on  
DNS filter  
profile



FortiGuard  
Category

Remote  
category on  
web filter  
profile



IP Address

Address  
object on  
firewall policy  
/ Domain  
Filter



Malware Hash

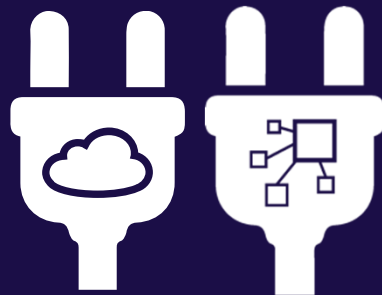
Virus  
Outbreak  
Prevention  
on AV profile

**NEW**

*Authentication Option*

# Fabric Connectors

## Cloud and SDN Connectors



- Increase number of connectors to public clouds and SDN components
- Multiple fabric connectors of any type to can be defined
- Cloud Connectors will be able to query filters automatically
- Log Changes to Dynamic Address Objects

### Public SDN



Amazon Web Services (AWS)



Microsoft Azure



Google Cloud Platform (GCP)



Oracle Cloud Infrastructure (OCI)



AliCloud

### Private SDN



Kubernetes



VMware ESXi



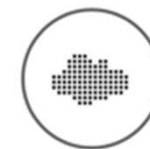
VMware NSX



OpenStack (Horizon)



Application Centric Infrastructure (ACI)



Nuage Virtualized Services Platform

# Multi-Cloud



Active-Passive  
HA

NEW



Autoscaling and  
HA Betw. Zones

NEW



Native and Para-  
Virtualized Modes

NEW



IAM credentials  
Support

NEW

ORACLE<sup>®</sup>  
Cloud Infrastructure

ORACLE<sup>®</sup>  
Cloud Infrastructure

FORTINET



Alibaba Cloud



Topology and  
CVE Integration

NEW



Cross AZ HA  
Support

NEW



Azure  
Security Center  
Integration

NEW

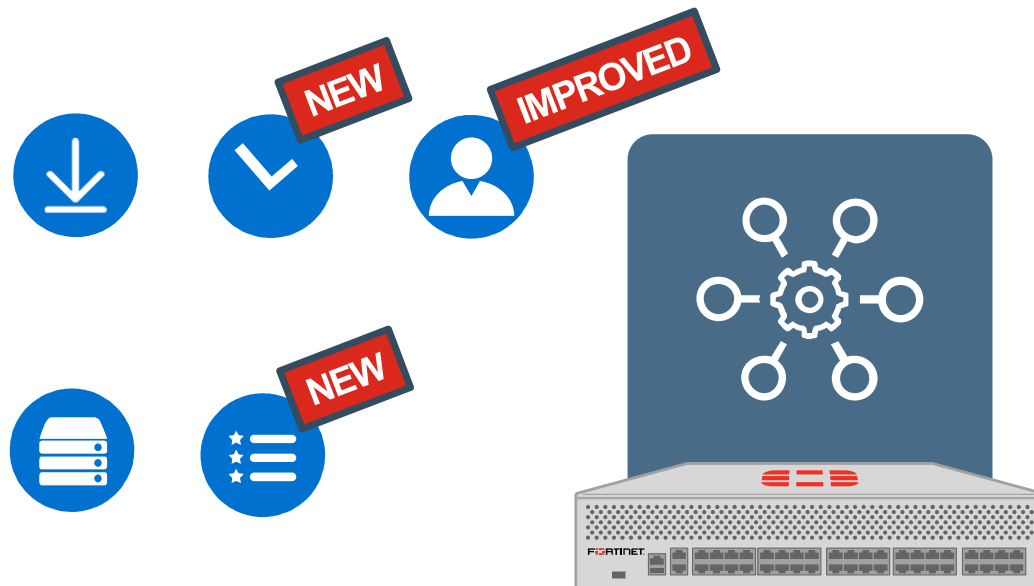


Autoscaling

NEW

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# Automation & Dev-Ops



TRIGGERS

AUTOMATION ENGINE

ACTIONS



**FORTINET®**