FORTINET

Fortinet Cloud Security for Google Cloud

Advanced Security Services from Fortinet

Tam Tran – Systems Engineer

Agenda

01 **Introduction of Fortinet and Security Solutions**

02 **Fortinet Cloud Security for Google Cloud**

03 **Google Cloud Use cases**

Introduction of Fortinet and Security Solutions

Fortinet is one of the largest cybersecurity companies in the world.

Founded: **October 2000**

Founded by: **Ken Xie and Michael Xie**

Headquarters: **Sunnyvale, CA**

Fortinet IPO (FTNT): **November 2009**

Listed in both: **NASDAQ 100 and S&P 500 Indices**

Member of: **2023 Dow Jones Sustainability World and North America Indices**

Global Customer Base
750K+
Customers

>50%
Global Firewall Shipments

2023 Billings
$6.4B+
(as of Dec. 31, 2023)

~$2.5B+
Investment in Innovation since 2017, with 91% R&D
(as of Dec. 31, 2023)

Market Capitalization
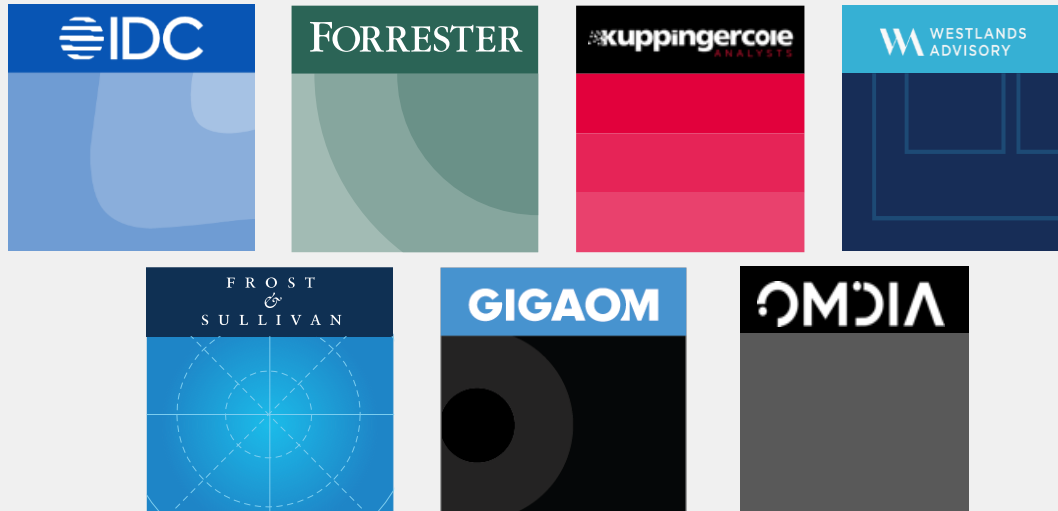## $52.1B
(as of March 31, 2024)

Security Investment Grade Rating:
BBB+ Baa1

100+

Industry Analyst Research Validates Fortinet Across Networking & Security

Fortinet is one of the most validated cybersecurity companies in the world. Fortinet is continually positioned in a leadership position across more than 100+ research reports from the major industry analyst firms like Gartner, IDC and Forrester, and is recognized in 8 Gartner Magic Quadrants.

Gartner
Leader in Magic Quadrant for SD-WAN

Gartner
Leader in Magic Quadrant for Network Firewalls

Gartner
Leader in Magic Quadrant for Enterprise Wired and Wireless LAN

Gartner
Challenger in Magic Quadrant for Single-Vendor SASE

Gartner
Challenger in Magic Quadrant for Security Service Edge

Gartner
Challenger in Magic Quadrant for Security Information and Event Management

Gartner
Niche in Magic Quadrant for Endpoint Protection Platforms

Gartner
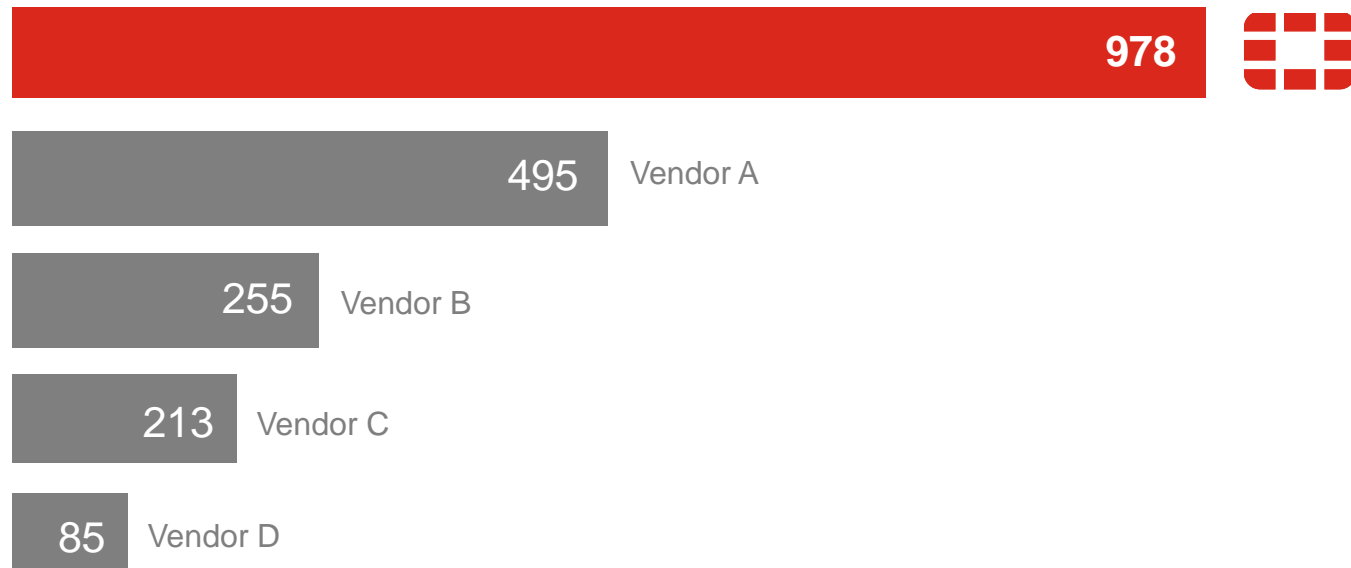Honorable Mention in Magic Quadrant for Access Management

Magic Quadrant for Endpoint Protection Platforms - Published 31 December 2023 - G00789052
Magic Quadrant for Security Information and Event Management - Published 10 October 2022 - ID G00755317
Magic Quadrant for SD-WAN - Published 27 September 2023 – ID G00778908
Magic Quadrant for Enterprise Wired and Wireless LAN Infrastructure – Published 06 March 2024 – G00785075
Magic Quadrant for Network Firewalls - Published 19 December 2022 - ID G00761497
Magic Quadrant for Security Service Edge - Published 10 April 2023 - ID G00766751
Magic Quadrant for Access Management - Published 16 November 2023 G00781727
Magic Quadrant for Single-Vendor SASE - Published 16 August 2023 - ID G00785023

#1 Cybersecurity Innovator

With 2x more patents than comparable cybersecurity companies

US Patents

978

495 Vendor A

255 Vendor B

213 Vendor C

85 Vendor D

Source: U.S. Patent Office, as of December 31, 2023

1318
Global Patents

978 U.S. Patents
340 International Patents
250 Pending Patents

Global Reach & Support

Majority of our R&D is based in North America

13,500+
Employees
Worldwide

100+
Global Cloud
Locations

Burnaby
Canada

Ottawa
Canada

Sunnyvale
US

Chicago
US

Concord
US

Sophia
France

Herzliya
Israel

Kawasaki
Japan

Bangalore
India

Uberlandia
Brazil

Fortinet Dev & Support
- Headquarters
- Dev Centers
- Support Centers
- Regional Office
- Cloud Locations

From a Threat Landscape That is More Complex Than Ever

LONG-LIVED EXPLOITS

98% of firms saw exploits created over five years ago

NEW VULNERABILITIES

17% YoY growth in new vulnerabilities

TARGETED ATTACKS ON THE RISE

More time on specific vectors vs spam

APT THREAT ACTORS

30% of APT groups were detected as active in 1H 2023

INDUSTRIAL RANSOMWARE

44% of ransomware and wipers targeted OT

CLOUD RISKS

69% of companies use two or more clouds

SUPPLY CHAIN ATTACKS

12% of data breaches originated with a software supply chain attack
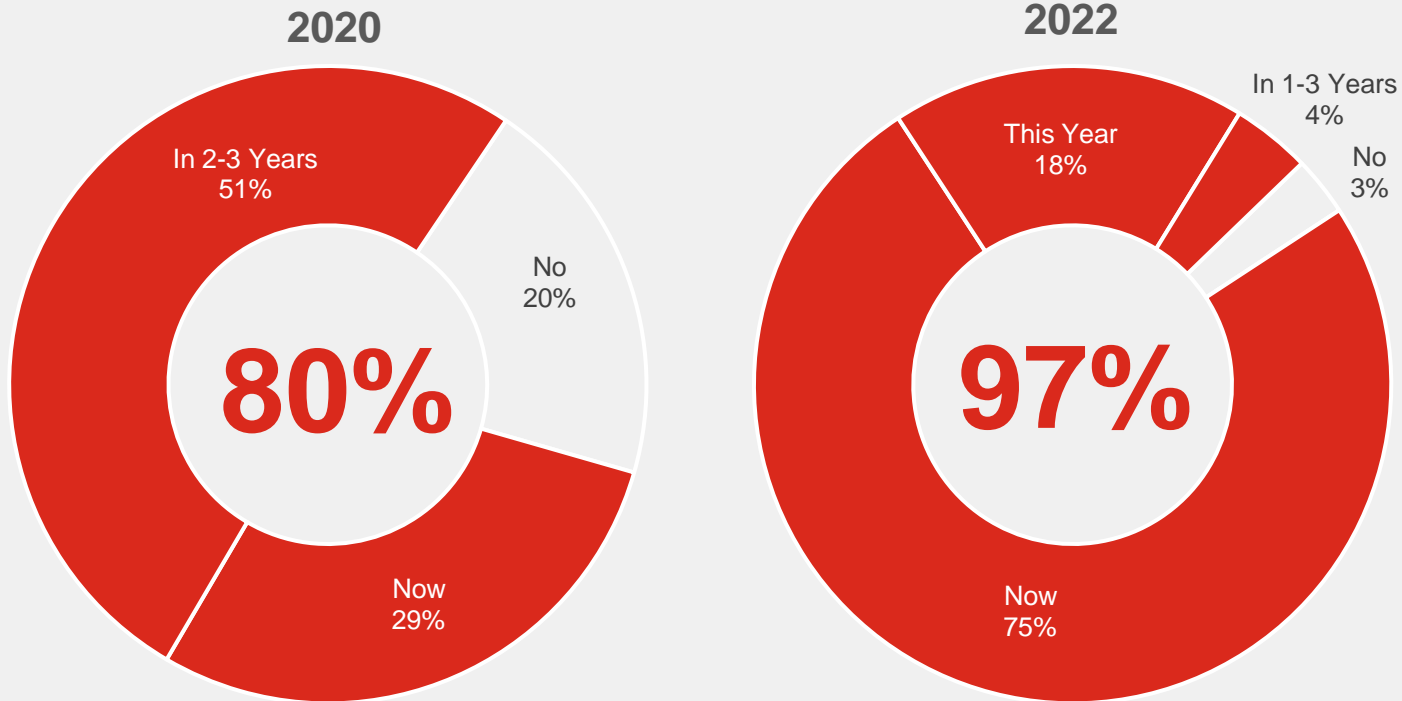
INSIDER RISK

+32% year-on-year increase in insider risk incidents

Consolidation is Accelerating to Reduce Risk and Minimize Complexity

Organizations pursuing a vendor consolidation strategy

2020

In 2-3 Years
51%

No
20%

Now
29%

80%

2022

This Year
18%

In 1-3 Years
4%

No
3%

Now
75%

97%

Primary reasons organizations are pursuing security vendor consolidation

65%
Improve risk posture

59%
Improve security capabilities

42%
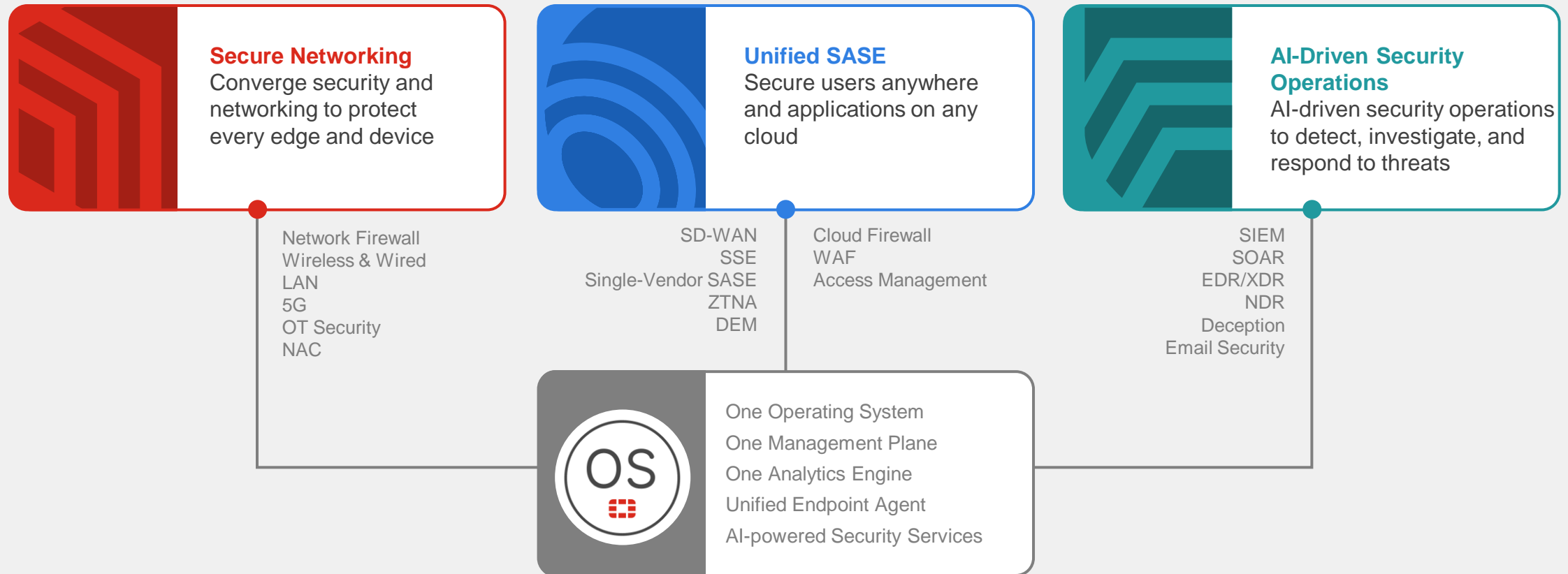Fit vendor strategy within the organization
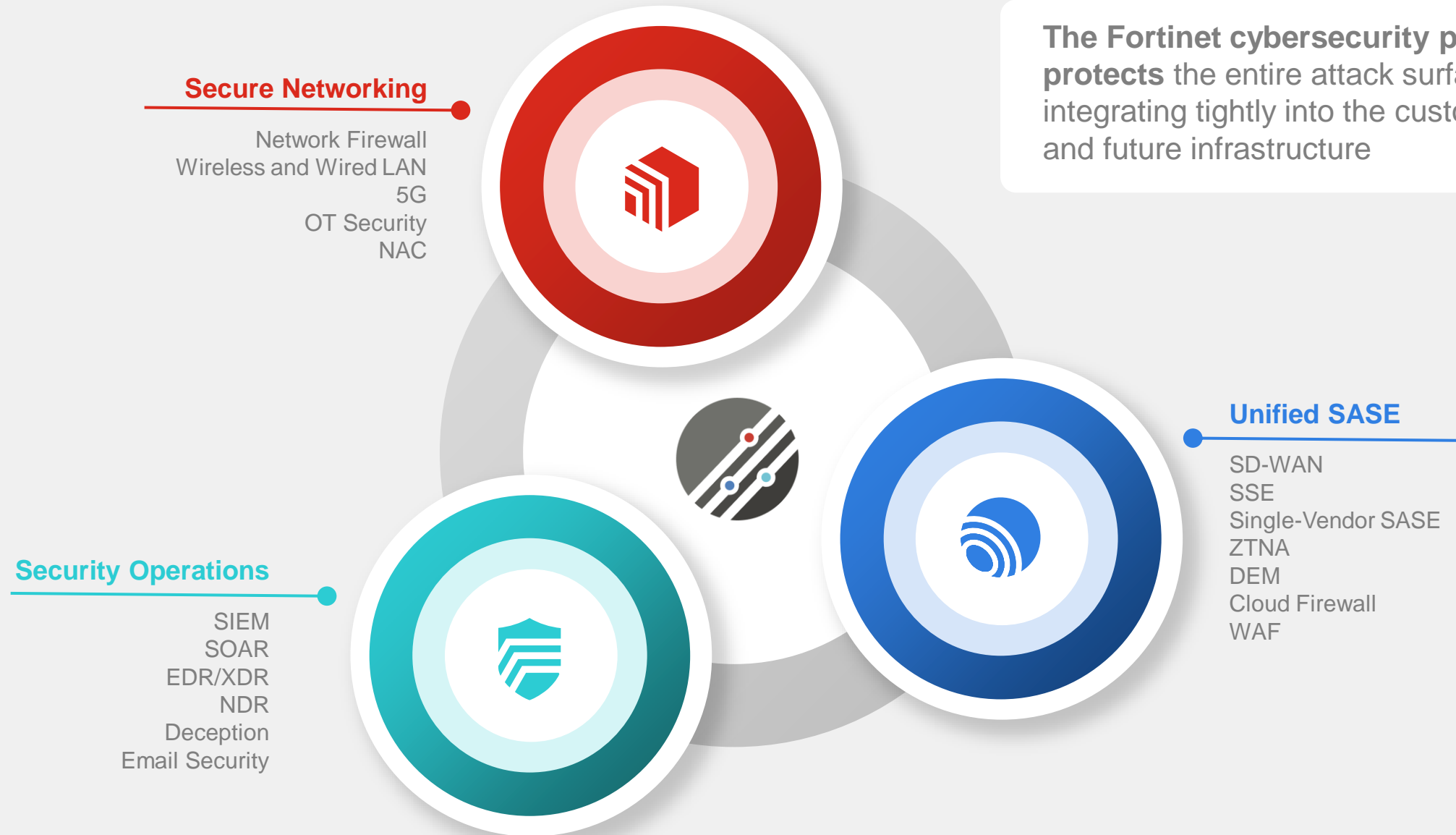
36%
Flat or reduced security team staffing

Gartner.

The Fortinet Security Fabric Platform

The Only Cybersecurity Platform Delivering Unprecedented Integration and Automation

Secure Networking
Converge security and networking to protect every edge and device

Network Firewall
Wireless & Wired
LAN
5G
OT Security
NAC

Unified SASE
Secure users anywhere and applications on any cloud

SD-WAN
SSE
Single-Vendor SASE
ZTNA
DEM

Cloud Firewall
WAF
Access Management

AI-Driven Security Operations
AI-driven security operations to detect, investigate, and respond to threats

SIEM
SOAR
EDR/XDR
NDR
Deception
Email Security

OS

One Operating System
One Management Plane
One Analytics Engine
Unified Endpoint Agent
AI-powered Security Services

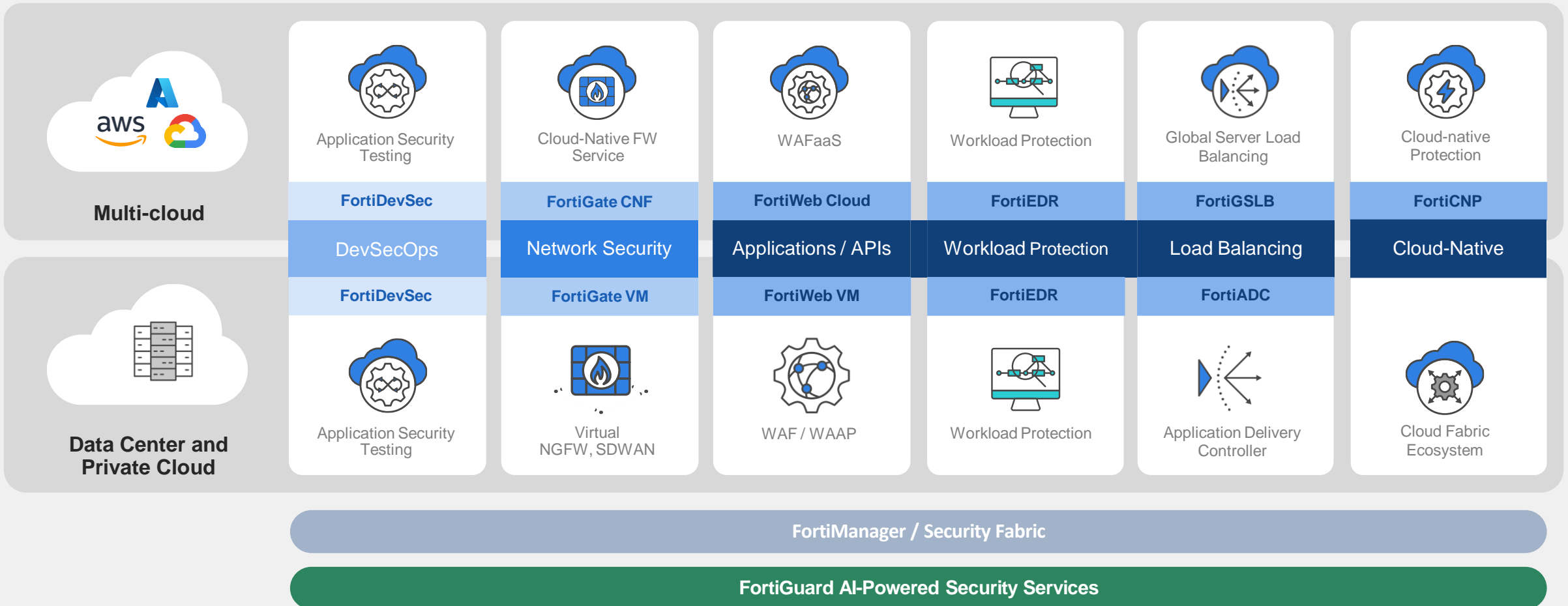# The Broadest Platform in Cybersecurity

50+ tightly integrated product lines

The Fortinet cybersecurity platform protects the entire attack surface while integrating tightly into the customer's current and future infrastructure

Secure Networking

Network Firewall
Wireless and Wired LAN
5G
OT Security
NAC

Unified SASE

SD-WAN
SSE
Single-Vendor SASE
ZTNA
DEM
Cloud Firewall
WAF

Security Operations

SIEM
SOAR
EDR/XDR
NDR
Deception
Email Security

Consistent Security for Applications That Can Live Anywhere

Build → **Deploy** → **Run**

Multi-cloud

Application Security Testing	Cloud-Native FW Service	WAFaaS	Workload Protection	Global Server Load Balancing	Cloud-native Protection
FortiDevSec	**FortiGate CNF**	**FortiWeb Cloud**	**FortiEDR**	**FortiGSLB**	**FortiCNP**
DevSecOps	Network Security	Applications / APIs	Workload Protection	Load Balancing	Cloud-Native
FortiDevSec	**FortiGate VM**	**FortiWeb VM**	**FortiEDR**	**FortiADC**	
Application Security Testing	Virtual NGFW, SDWAN	WAF / WAAP	Workload Protection	Application Delivery Controller	Cloud Fabric Ecosystem

Data Center and Private Cloud

FortiManager / Security Fabric

FortiGuard AI-Powered Security Services

Security **for** the Cloud

Consistent security for applications that can live anywhere

Cloud Fabric-Ready Ecosystem

aws

Microsoft Azure

Google Cloud

ORACLE

Alibaba Cloud

WIZ

TIGERA

Hewlett Packard Enterprise

EQUINIX

Megaport

IBM Cloud

servicenow

HashiCorp

openstack

vmware

Multi-cloud

Edge Compute

Data Center and Private Cloud

Virtual NGFW, SDWAN

WAF / WAAP

Workload Protection

Application Delivery Controller

Cloud-native Protection

FortiCNP

Cloud-Native

Cloud Fabric Ecosystem

FortiManager / Security Fabric

FortiGuard AI-Powered Security Services

FortiGuard AI-Powered Security Services

FortiGuard AI-powered Security Services

AV | IL MPS | DLP | IPS | OT | ATTK SRFC | DNS | URL | BOT | IL CASB | APP CTRL | ANTI-SPAM

Integrated into FortiGate NGFWs, and Across Fortinet's Broad Portfolio

Protect Against Known, Unknown, Zero-Day and Emerging AI-based Threats

Threat Vectors

| Email | Files | Access | Network | Web | Applications |

| Ransomware | 0-Day | Known | Unknown | Impersonation |

LABS
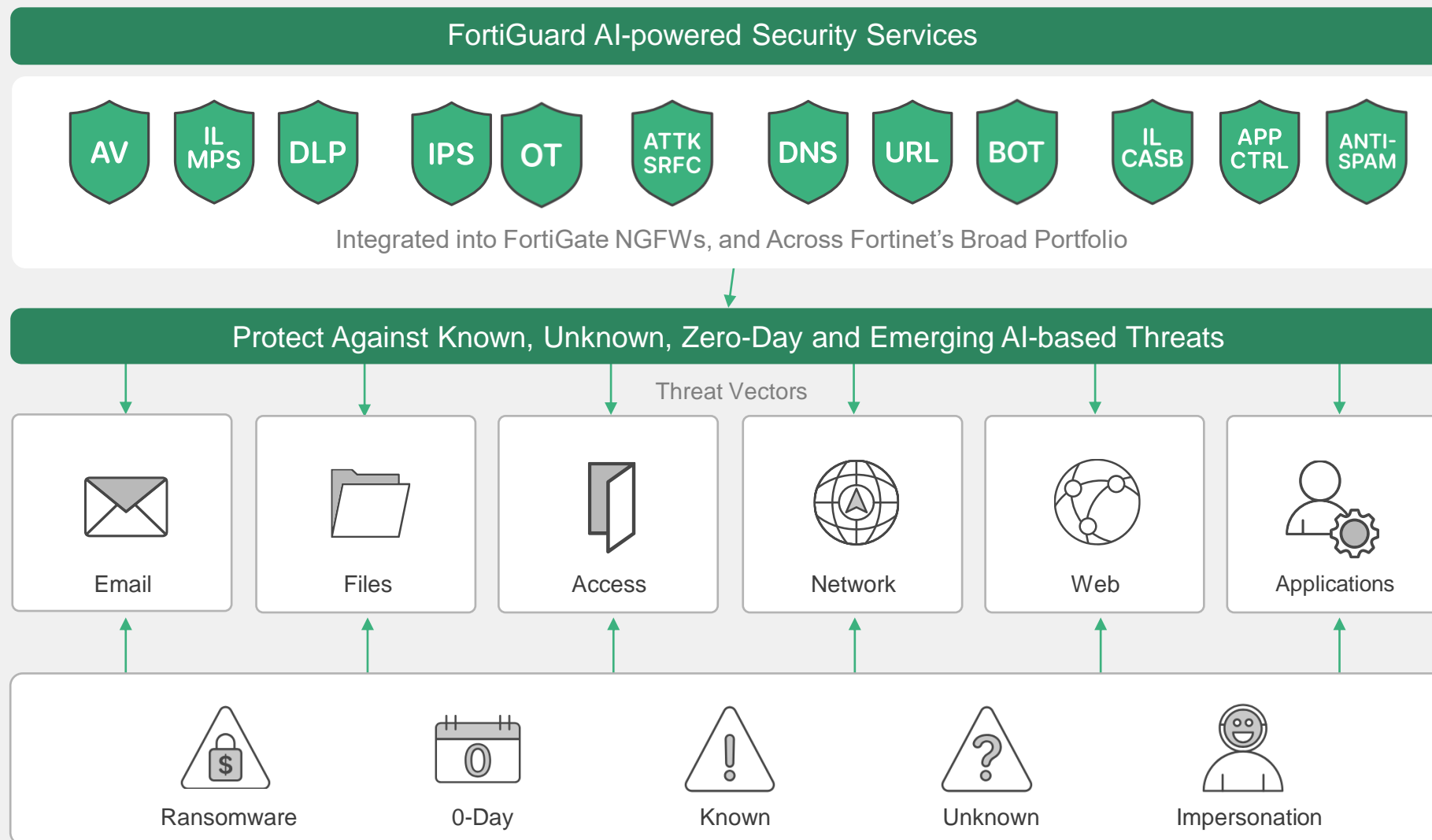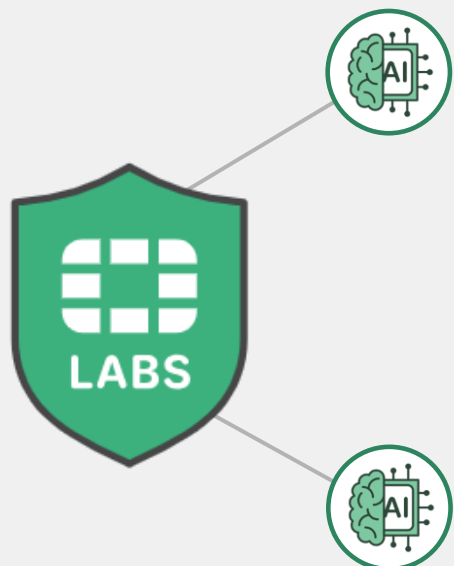
Fortinet Cloud Security for Google Cloud

The future of digital transformation is hybrid multi-cloud

But cloud adoption faces headwinds when it comes to security and skills.

87%
of organizations operate in multiple public and private clouds.

72%
maintain a hybrid multi-cloud environment.

79%
consider security to be a top challenge when operating in the cloud.

78%
cite a lack of resources or expertise as a primary challenge.

Source: Flexera 2023 State of the Cloud Report

Google Cloud

The biggest challenges securing multi-cloud environments

Skills gap

58% of organizations say that having the right skills to deploy and manage a complete solution across all cloud environments is their biggest challenge.

Data protection & privacy

52% say that a multi-cloud strategy introduces challenges around ensuring data protection and privacy for each environment.

Interoperability

49% struggle to understand how different solutions fit together.

Integration

45% are concerned about their lack of understanding service integration options.

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Source: Fortinet 2023 Cloud Security Report

Fortinet Cloud Security for Google Cloud provides advanced security within the cloud and on-premises to the cloud

while enabling performance and agility.

Fortinet & Google Cloud: Broad, automated protection & deep integration
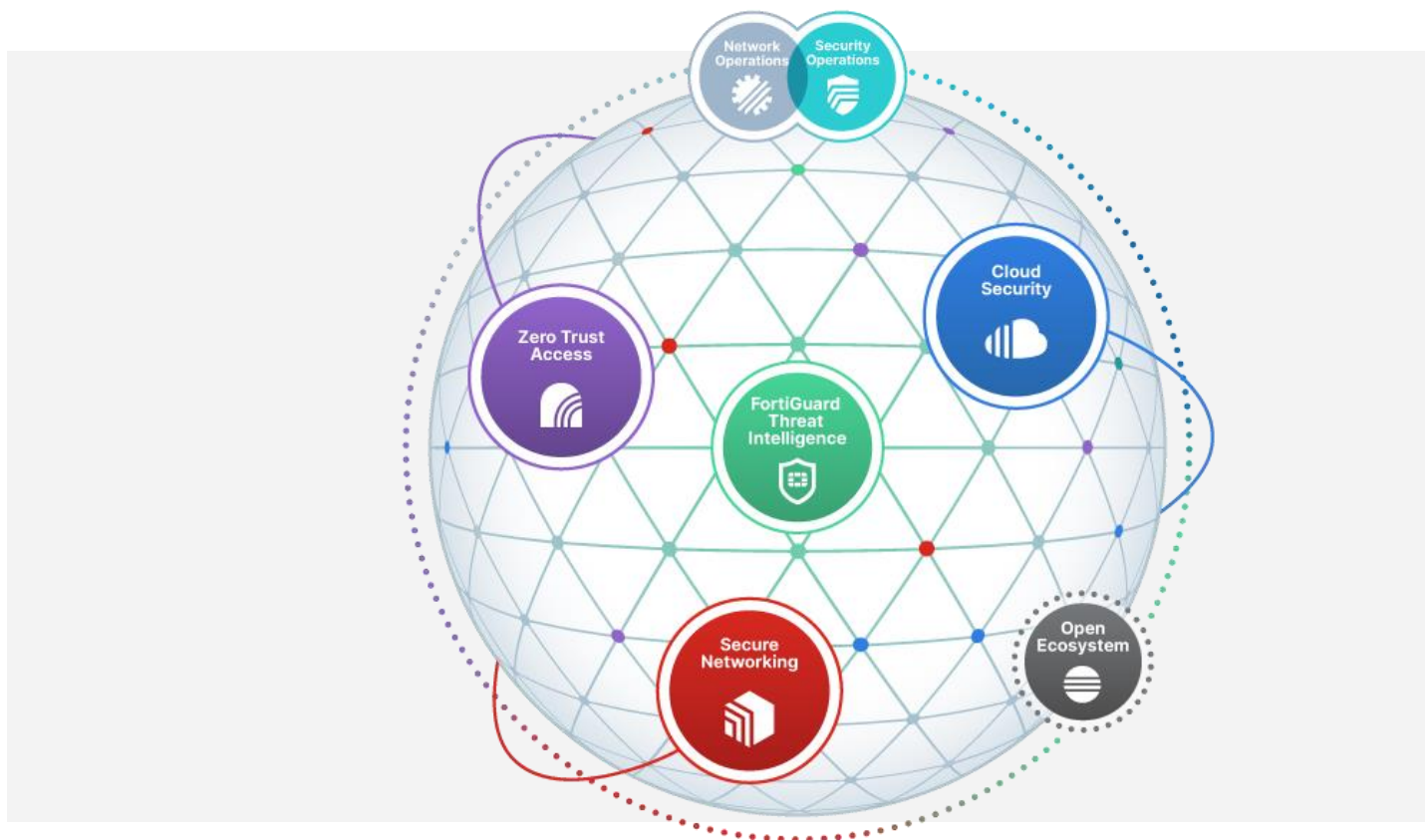
Broad

Our broad portfolio includes converged networking and security offerings across endpoints, networks, and clouds.

Integrated

Best-of-breed technologies are integrated with AI-powered consolidated analysis and automated prevention.

Automated

Advanced AI can automatically deliver near-real-time, user-to-application coordinated protection across the Fabric.

F:RTINET

Google Cloud

A complete security solution for the hybrid multi-cloud

Do more with less

- Automate deployment

- Model normal usage to detect anomalies

- Detect and defuse attacks in real-time

Protect your data

- Protect workloads with cloud data security scanning

- Achieve privacy and security compliance

- Prevent ransomware with AI-powered analytics

Reduce complexity

- Gain a consolidated view with threat prioritization

- Simplify audit and compliance

- Automate to speed response

Get the full picture

- Integrate with Google Cloud Security Command Center

- Gain insight into network-wide, traffic-based threats

- Pull data from other security tools

F=RTINET

Google Cloud

See and respond to threats with a converged networking and security approach to protect your network, applications, and workloads.

FORTINET®

Google Cloud

Network protection

A convergence of networking and security through a single operating system

- Distributed enterprise/SD-WAN

- Hybrid cloud & Multi cloud

- VPC-to-VPC segmentation

- Secure remote access

- Perimeter security for GKE clusters

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Google Cloud
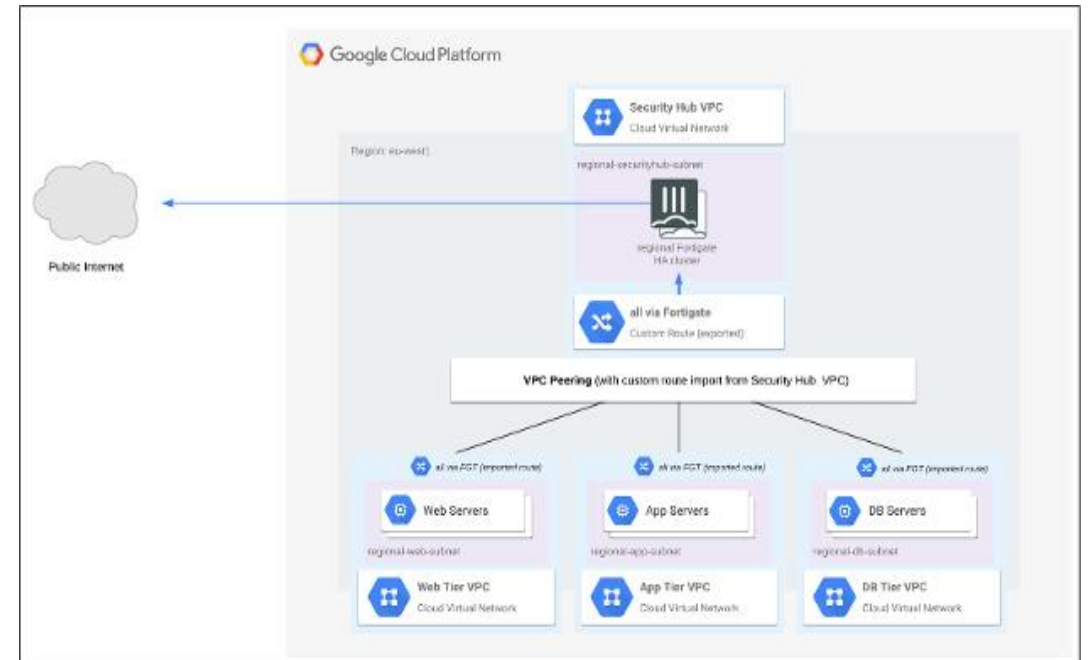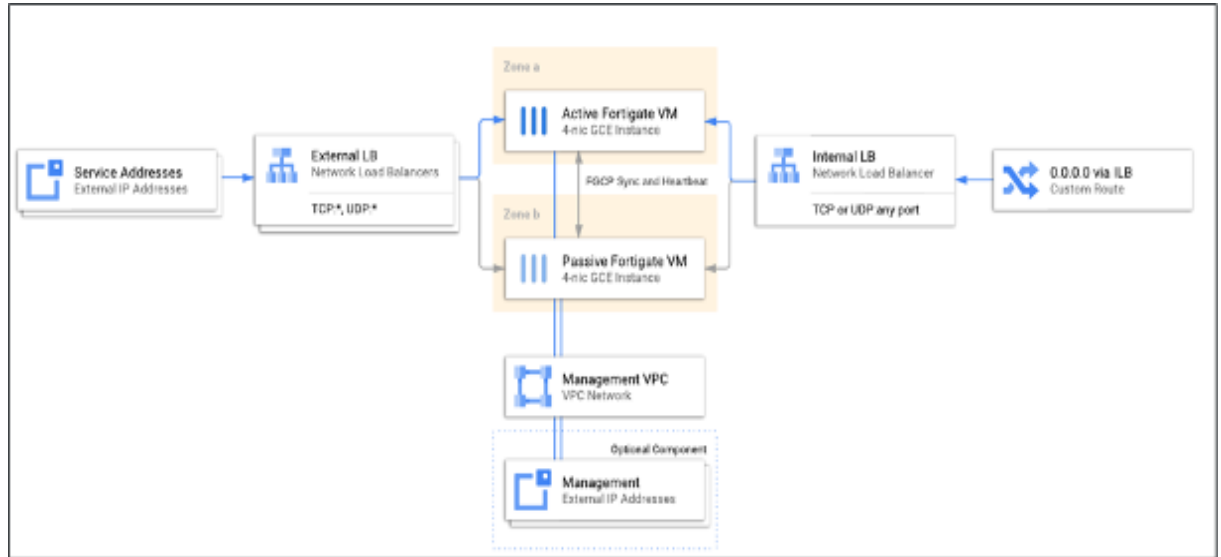
Securing applications from development to production

Protect business-critical applications and APIs from known and unknown threats

Web application firewall

Secure-by-design infrastructure

- ✓ API security for Apigee
- ✓ Web application security
- ✓ Regulatory compliance
- ✓ Shift left security
- ✓ Risk management
- ✓ Bot defense
- ✓ ML adaptability for fewer false positives
- ✓ Application development cycle security

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RTINET®

Google Cloud
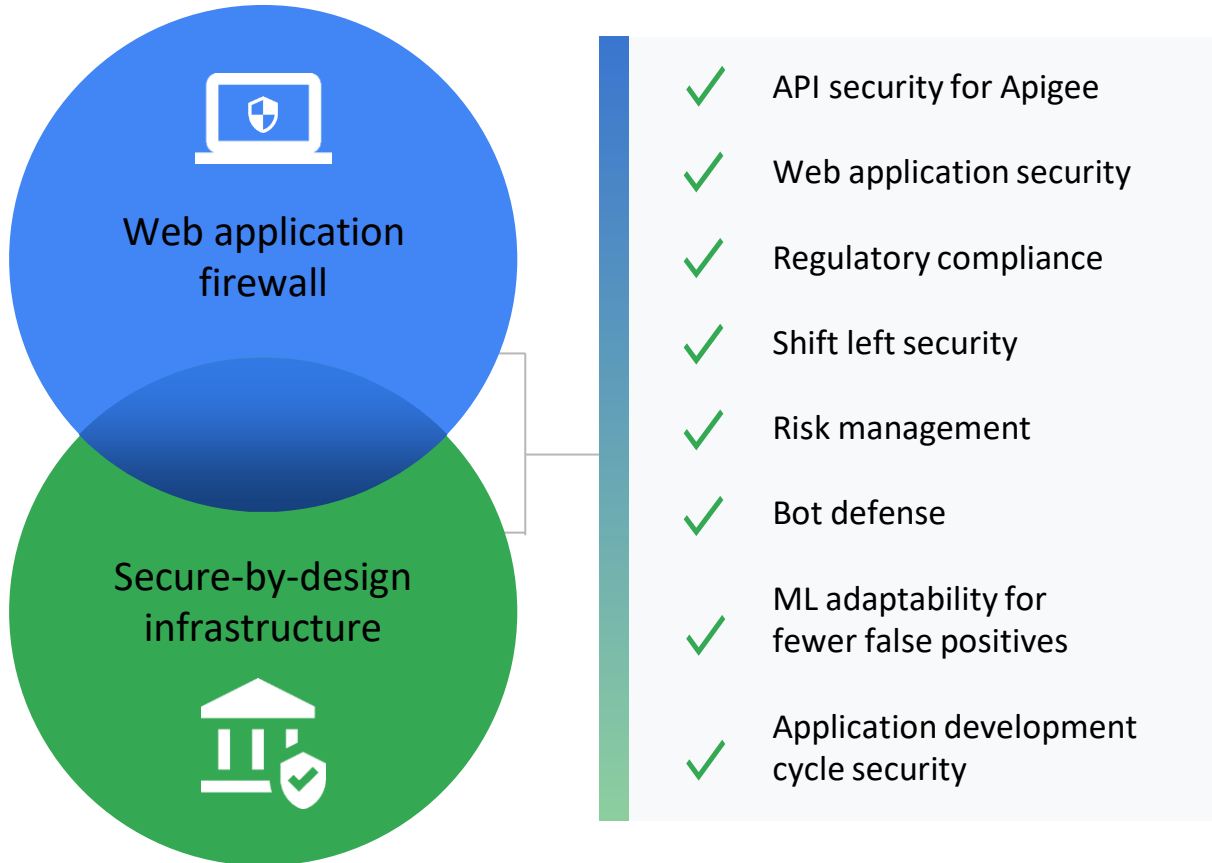
Tools that keep you secure through the entire lifecycle.

Protect business-critical applications and APIs from known and unknown threats while securing applications from development to production
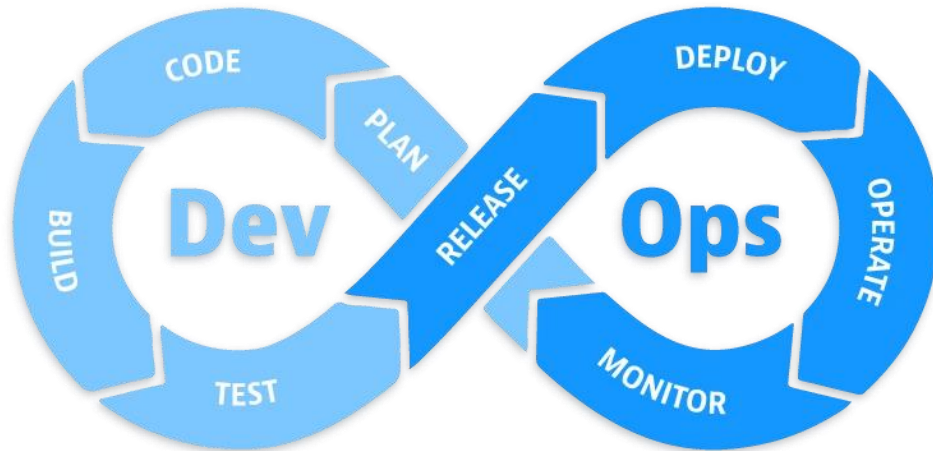
FortiDAST
Black-Box Dynamic Application Security Testing
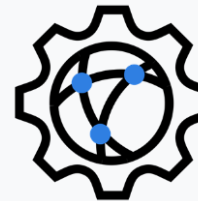
FortiDevSec
DevOps-first Application Security Testing
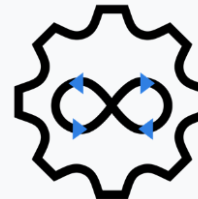
FortiWeb
Machine Learning enhanced Web App and API Protection

Workload protection

Advanced threat prevention and coordinated response across networks, endpoints, and clouds.

|	
Misconfigurations	Configuration assessments
Malicious activity	Cloud account activity and traffic monitoring
Malware attacks	Cloud data security scanning
Siloed data and limited visibility	Integrate with Security Command Center

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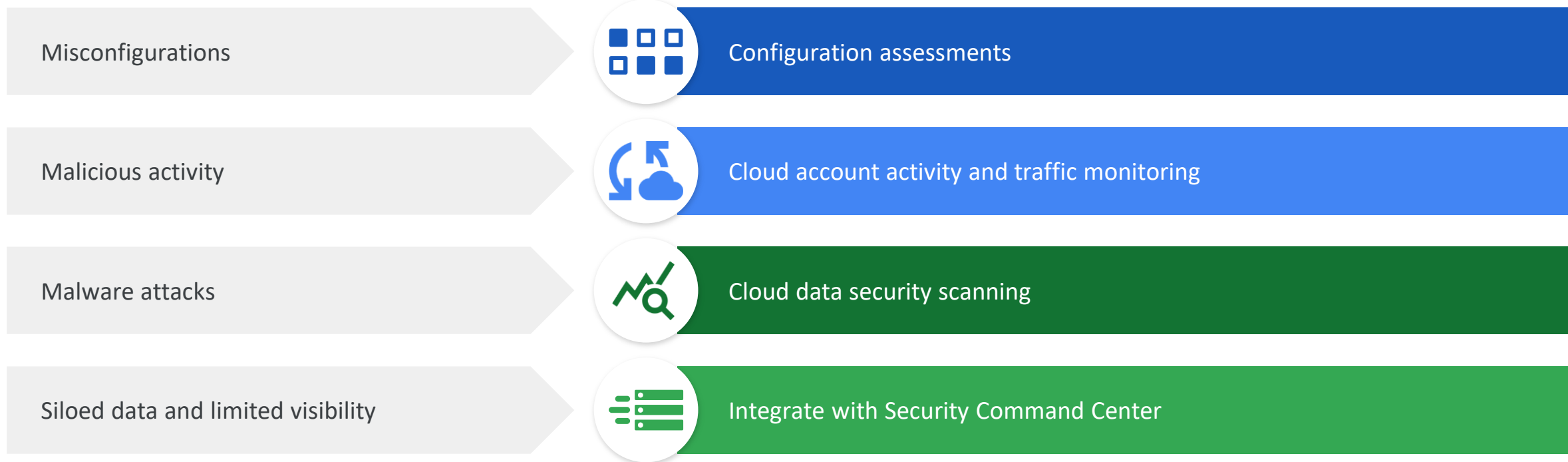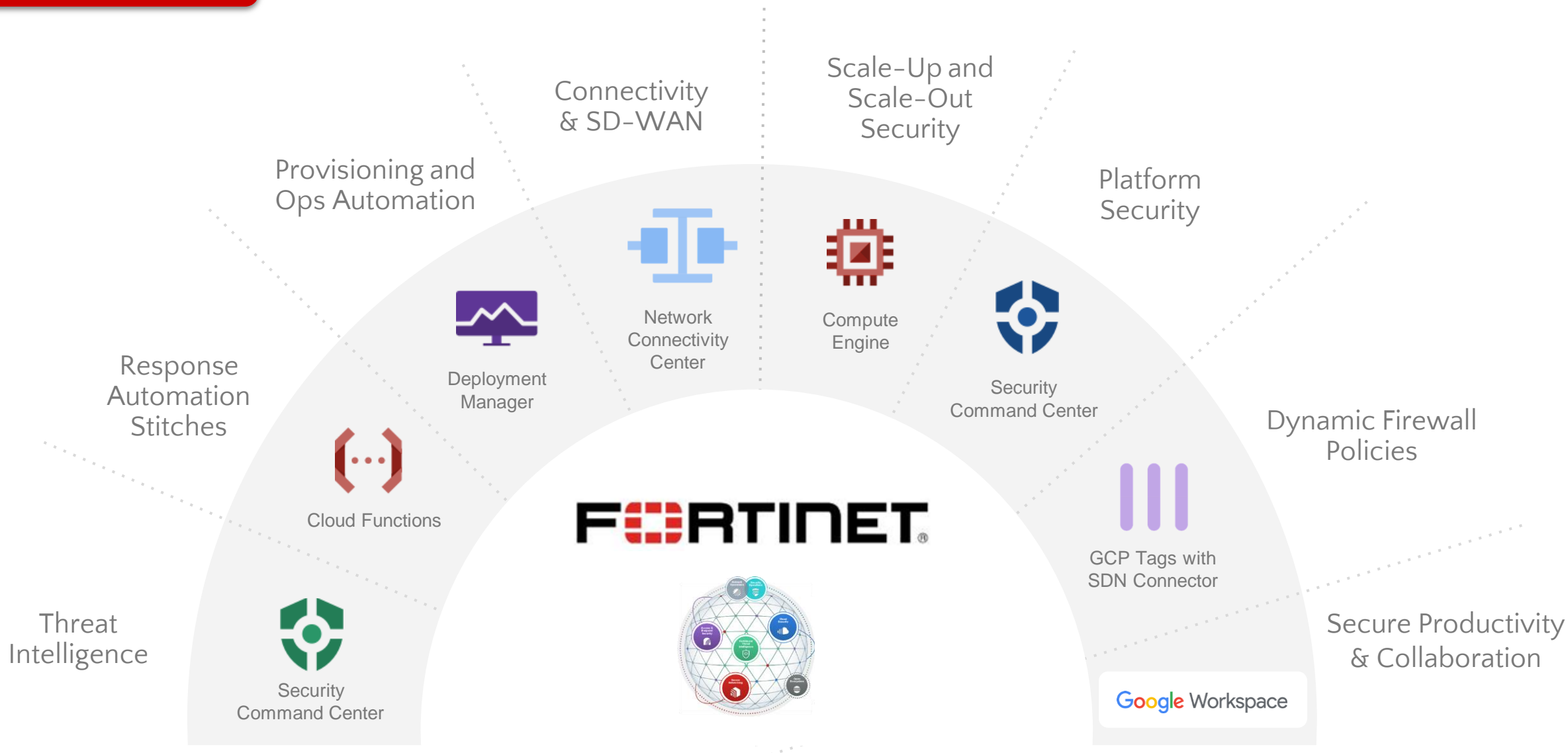
Google Cloud

Google Cloud Use cases

Architecture
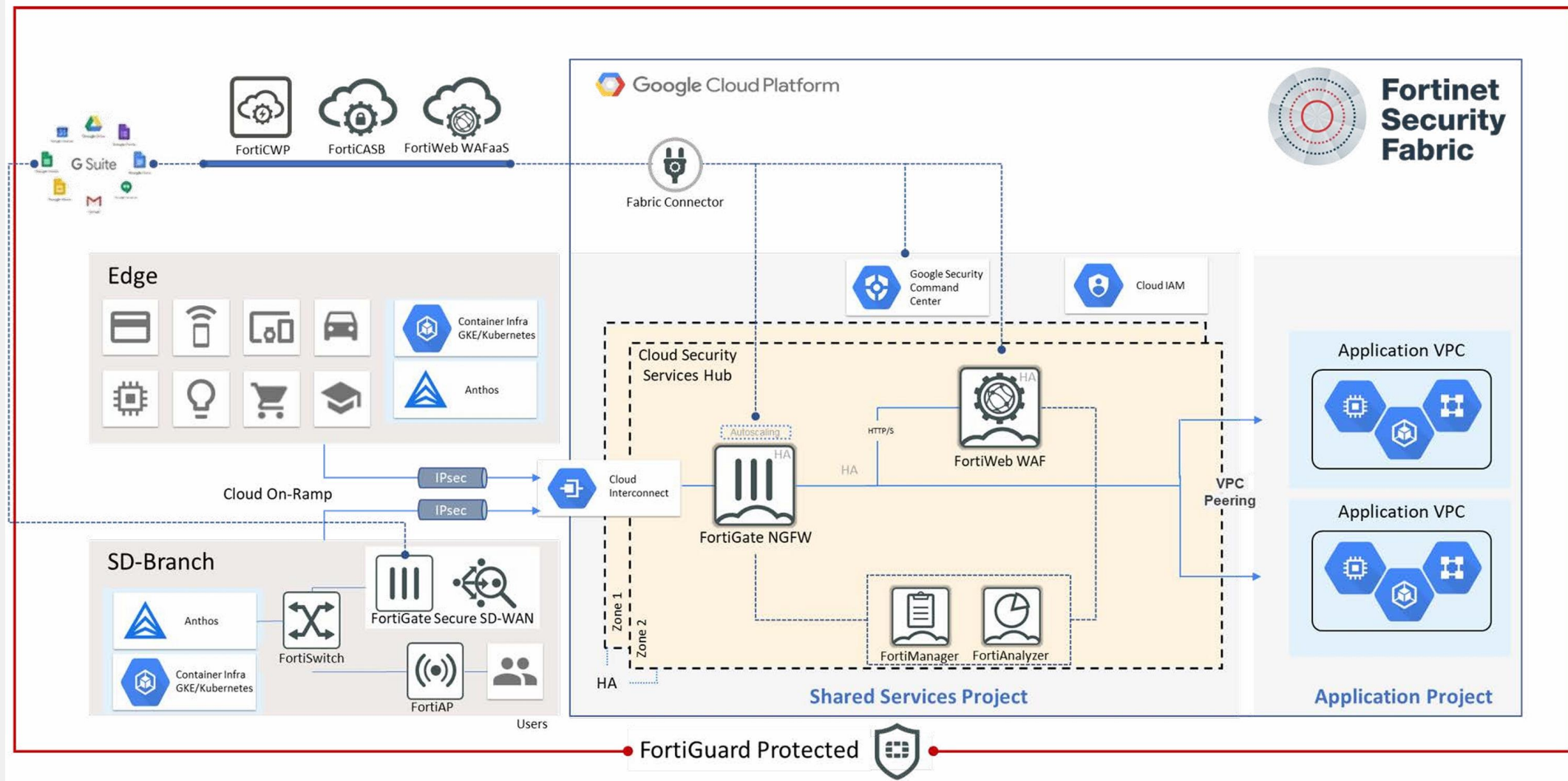
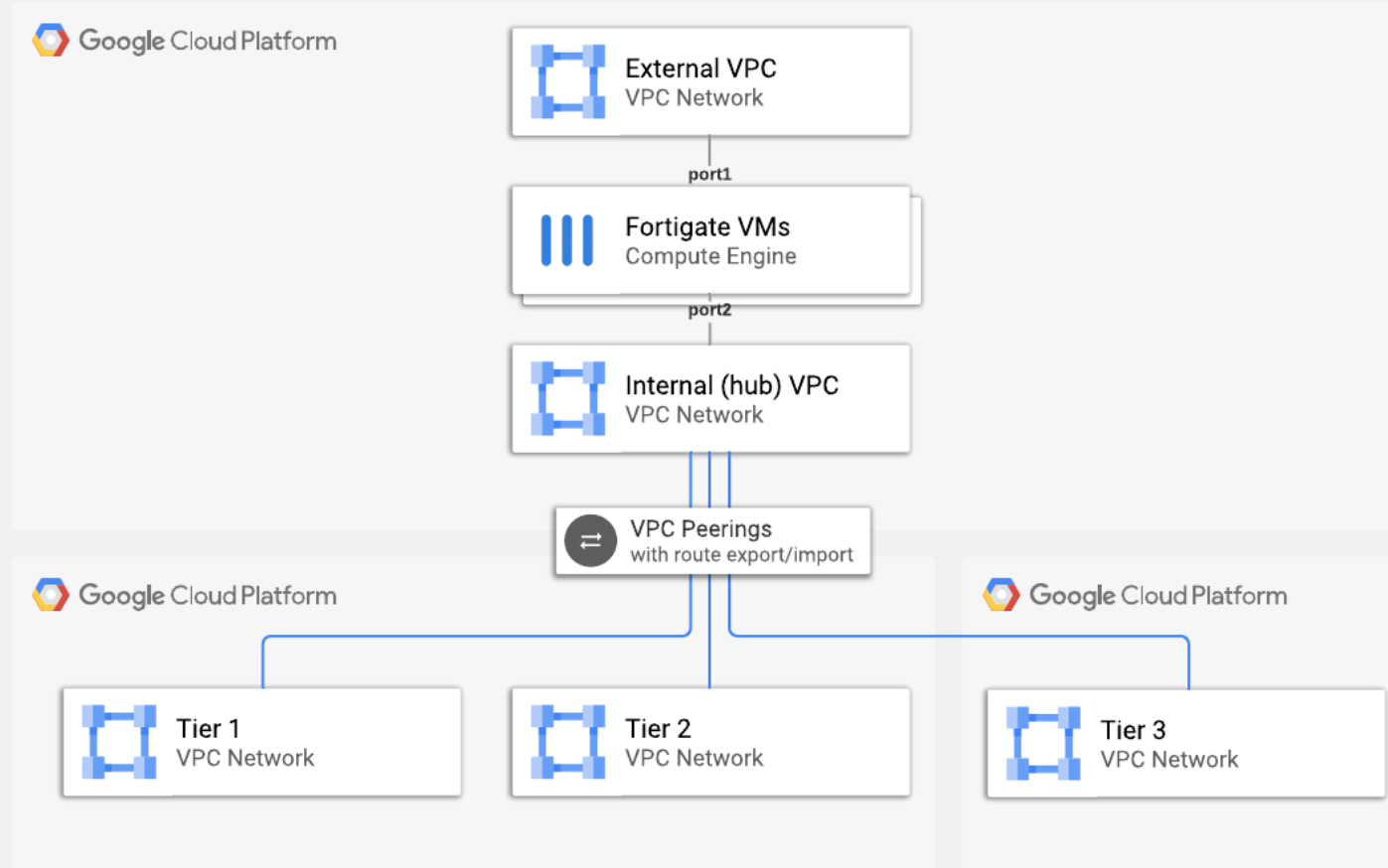# Active-Passive HA Cluster with SDN Connector Failover
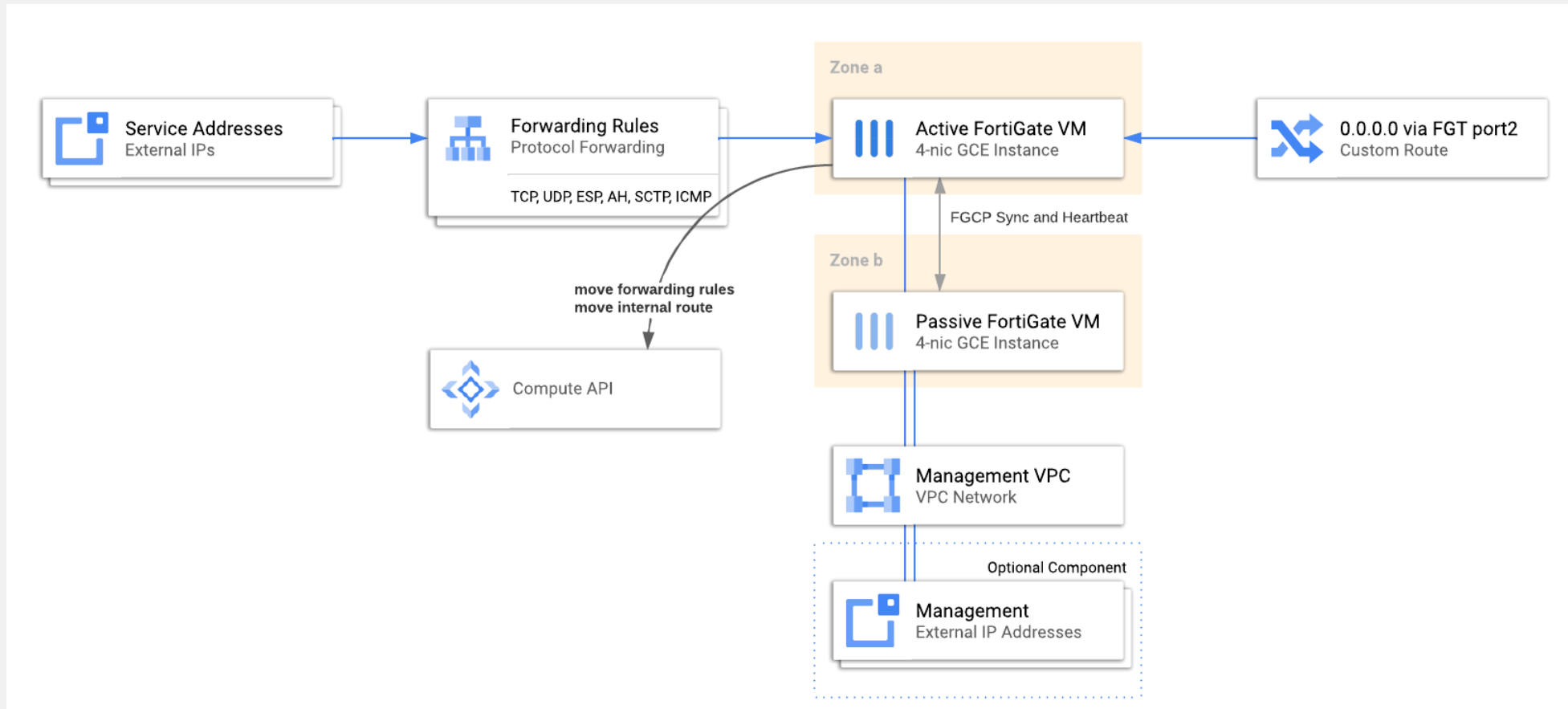
HA Active-Passive FGCP in LB Sandwich

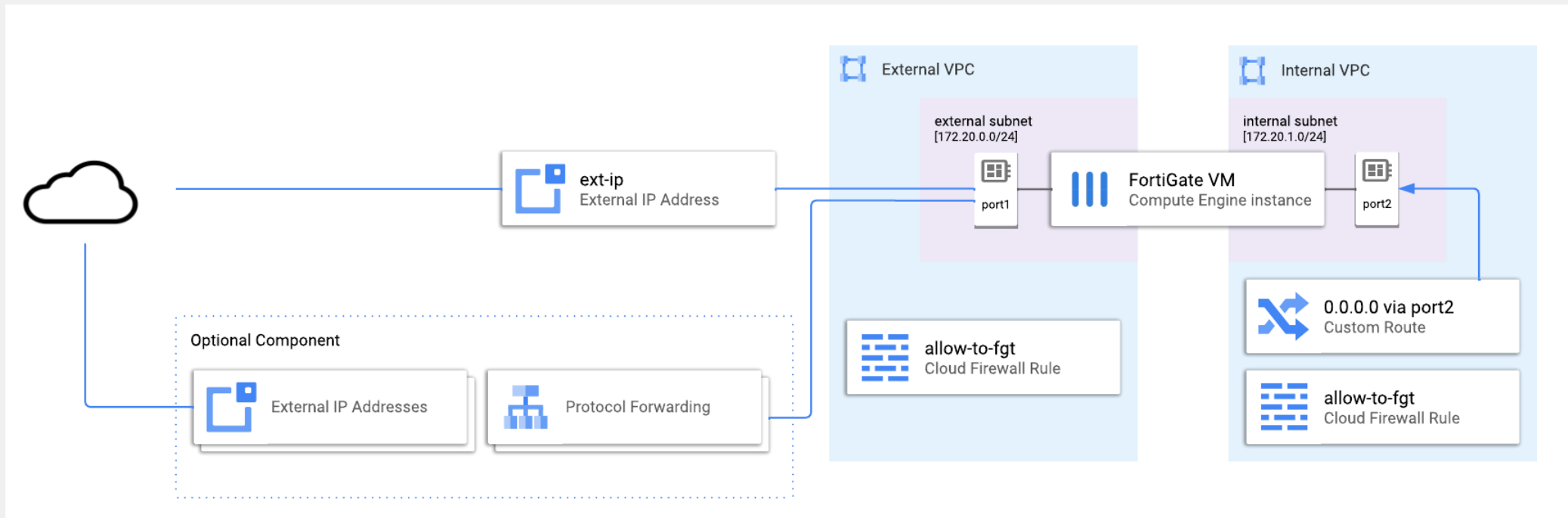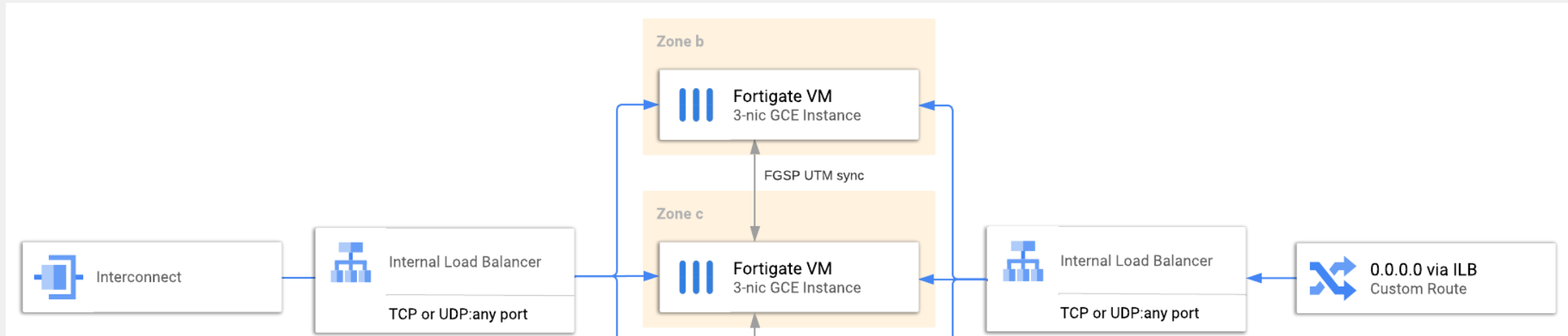Load Balancer Sandwich
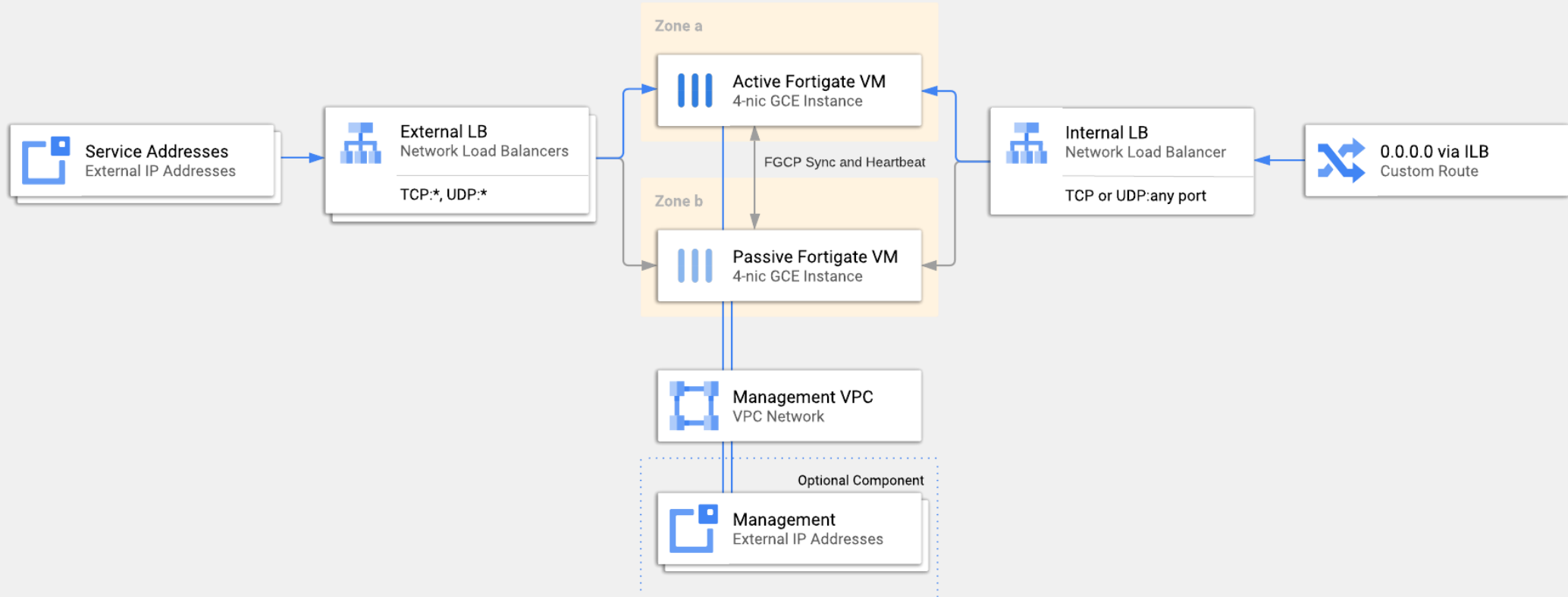
Peered Hub and Spoke

Single VM

Active-Active FGSP group

Google Network Connectivity Center (NCC)

Global SD-WAN over Google Network