

The background is a vibrant, abstract graphic. It features a series of overlapping, wavy bands of color in shades of red, orange, yellow, green, and blue, creating a sense of movement and energy. On the right side, there is a bright, multi-colored sunburst or starburst effect that radiates outwards, adding to the dynamic feel of the image.

cisco *Live!*

Let's go

#CiscoLive



The bridge to possible

Cisco's Vision to Hybrid Cloud

Use Cases, Strategy, Design Best Practices

SVijendi, SD-WAN Solutions Architect
BRKCLD-2017

CISCO *Live!*

#CiscoLive

Cisco Webex App

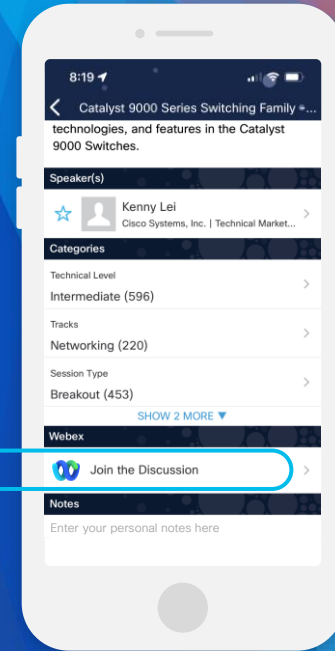
Questions?

Use Cisco Webex App to chat with the speaker after the session

How

- 1 Find this session in the Cisco Live Mobile App
- 2 Click “Join the Discussion”
- 3 Install the Webex App or go directly to the Webex space
- 4 Enter messages/questions in the Webex space

Webex spaces will be moderated by the speaker until June 9, 2023.



<https://ciscolive.ciscoevents.com/ciscolivebot/#BRKCLD-2017>

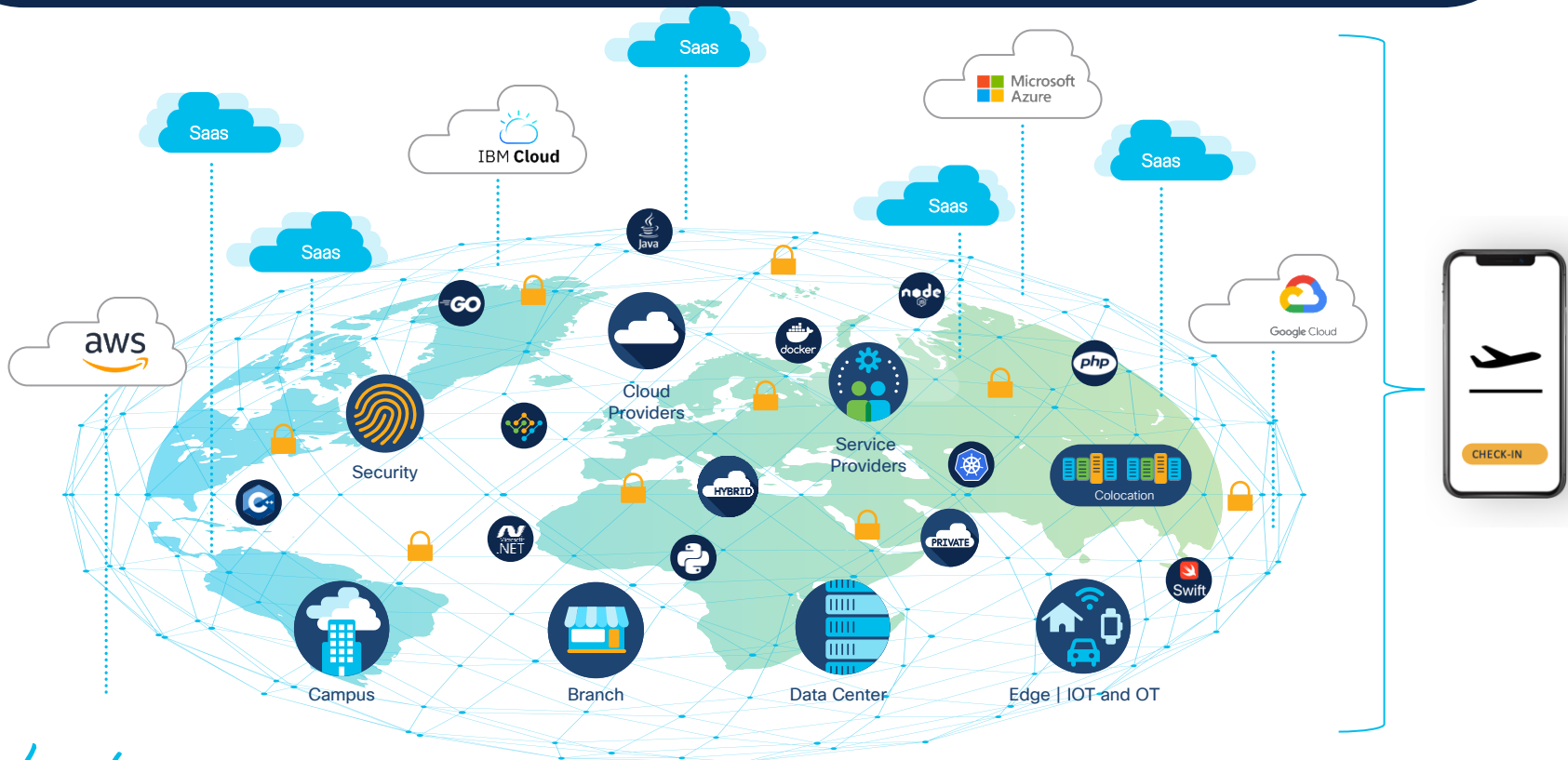
Agenda

- Cisco Cloud Vision and Strategy
- Cloud Connect
- Cloud Protect
- Cloud Consume
- It is a Hybrid Cloud World

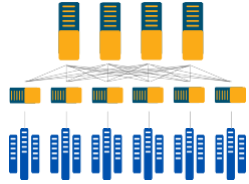
The world is changing.

Organizations are moving their Applications into the “Cloud” and It’s not just one Cloud....But Many ...Private, Public...It’s Hybrid Cloud today and that’s making the concept of hybrid cloud a reality.

The new normal is a hyper-distributed, extremely diverse IT landscape



Hybrid Cloud – A Note on Terminology



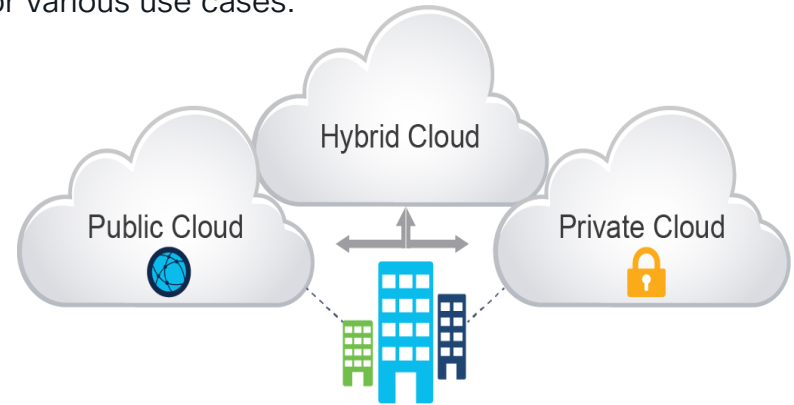
Azure



Google Cloud

Hybrid clouds are infrastructure combinations of two or more clouds, such as on-premises private, hosted private, or public, that can be centrally managed to enable interoperability for various use cases.

- Private Cloud – On- prem Data Center
- Public Cloud – AWS, Azure, GCP
- Hybrid Cloud – Private Cloud + Public Cloud
- Hybrid Multi Cloud – Private Cloud + 2 or more Public Clouds
- Multi Cloud – Public Cloud + Public Cloud

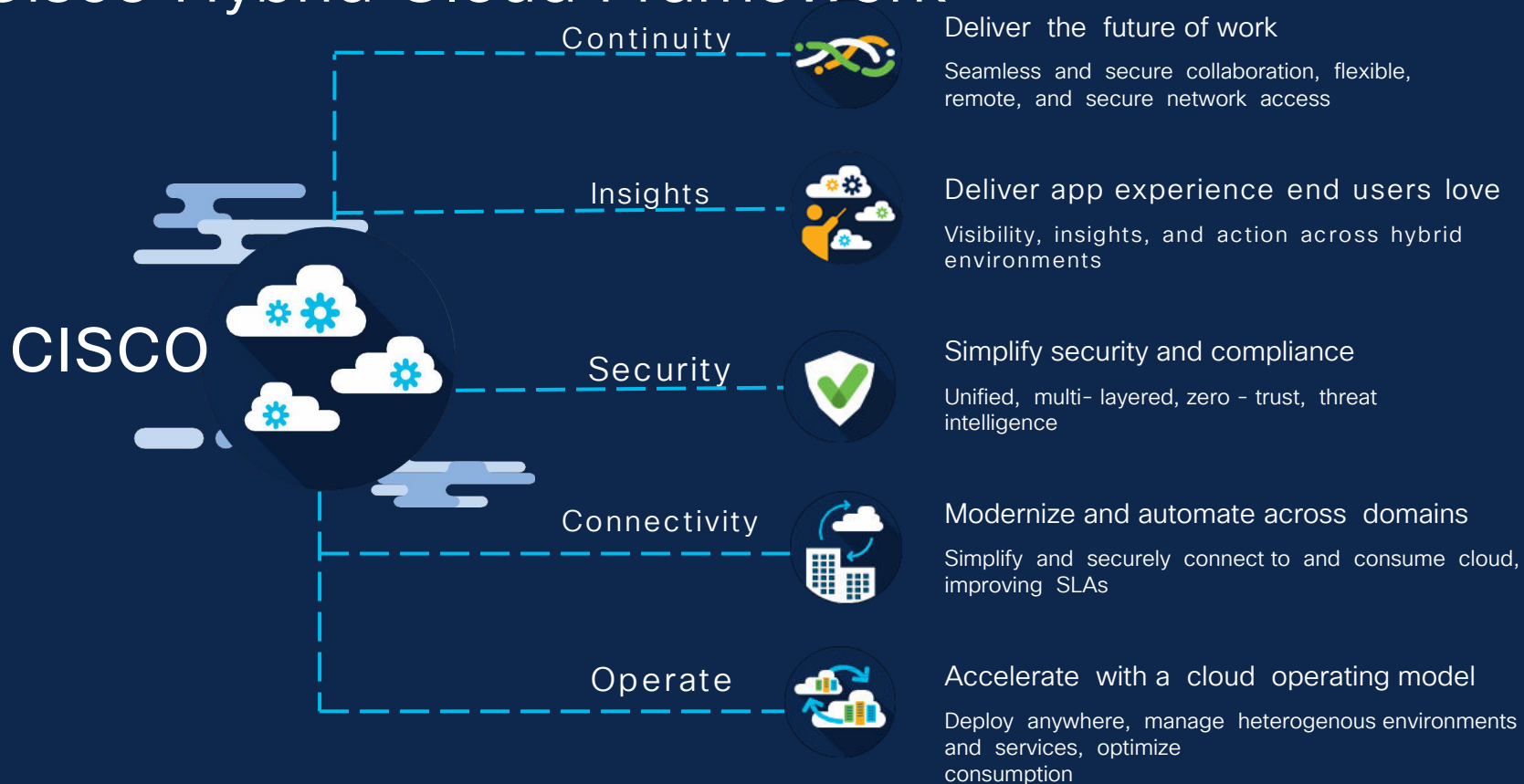


Cisco Cloud Vision and Strategy for Hybrid Cloud

Cisco Vision is to normalize the cloud operational model Anywhere!



Cisco Hybrid Cloud Framework



Key Hybrid Cloud Use Cases with Cisco Solutions

Cloud Connectivity

Cisco Connect Solutions

Secure Cloud Connect



Cisco Catalyst C8000v
Edge Software

SDWAN



Cisco Catalyst SD-WAN/
Meraki SD-WAN

Cloud Security

Cisco Protect Solutions

Cloud Security



Secure Firewall

Secure
Service Edge
(SSE)



Umbrella

Extended Threat
Detection & Response



Cisco XDR

Cloud Analytics



Cisco Secure
Cloud Analytics

Cloud Consume

Cisco Observability Solutions

Full Stack
Observability



AppDynamics

Cloud
Optimization



IWO

End User Monitoring &
WAN Insights



ThousandEyes

CISCO

Software
Solutions

aws

Azure

Google Cloud

Cloud Service Providers

Cloud Connect

Seamless connection using
Private and SD-WAN Transport



Different Clouds, Different Requirements

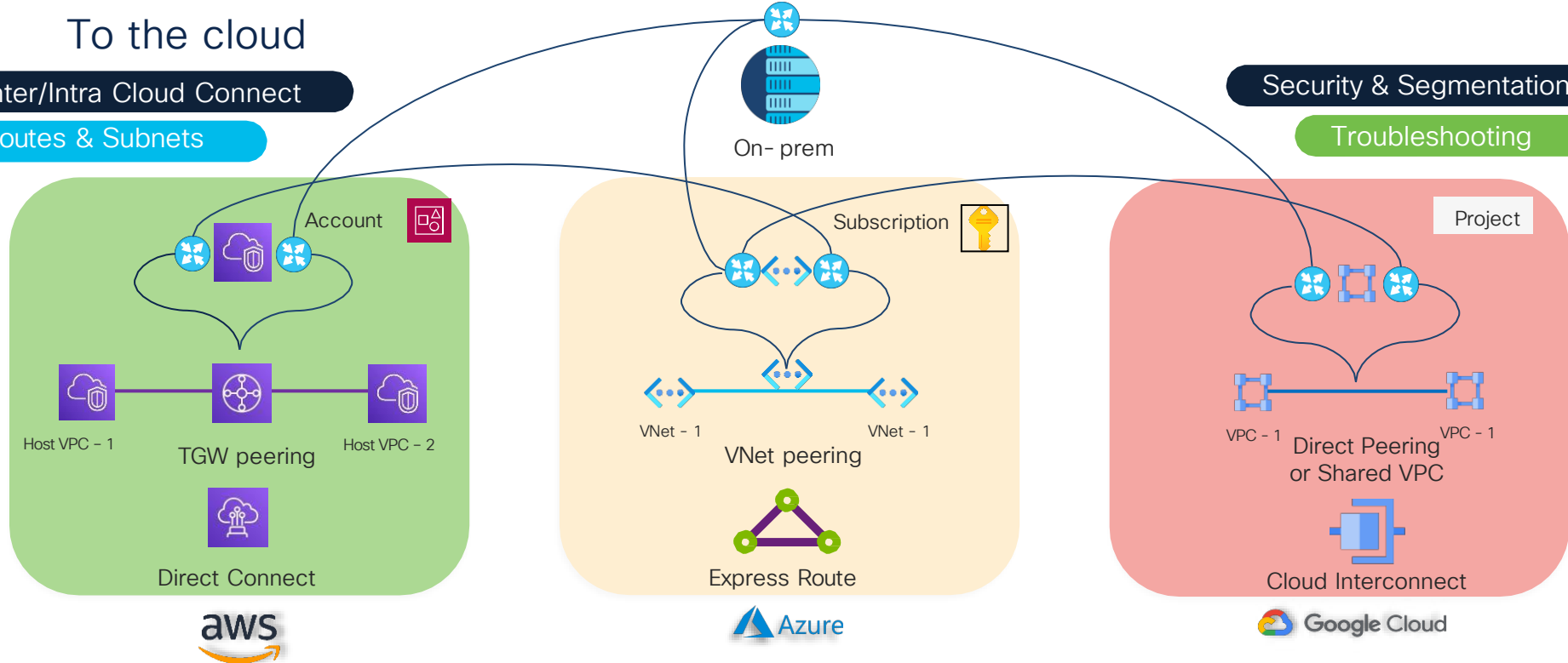
To the cloud

Inter/Intra Cloud Connect

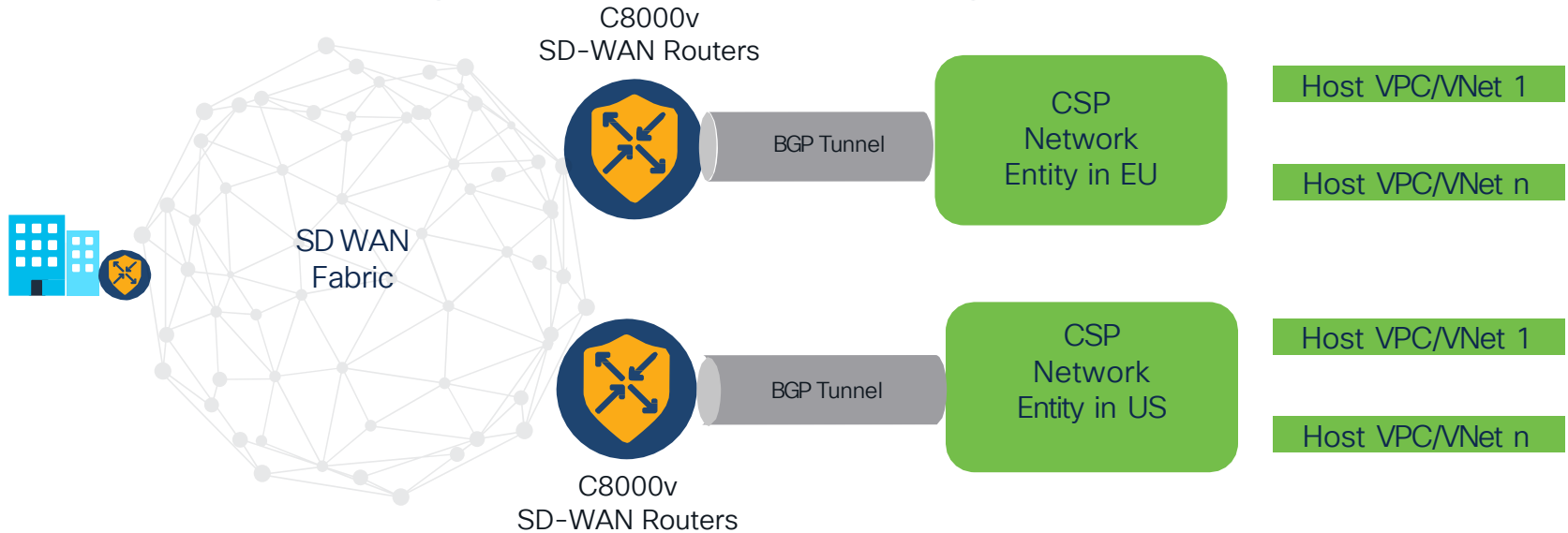
Routes & Subnets

Security & Segmentation

Troubleshooting



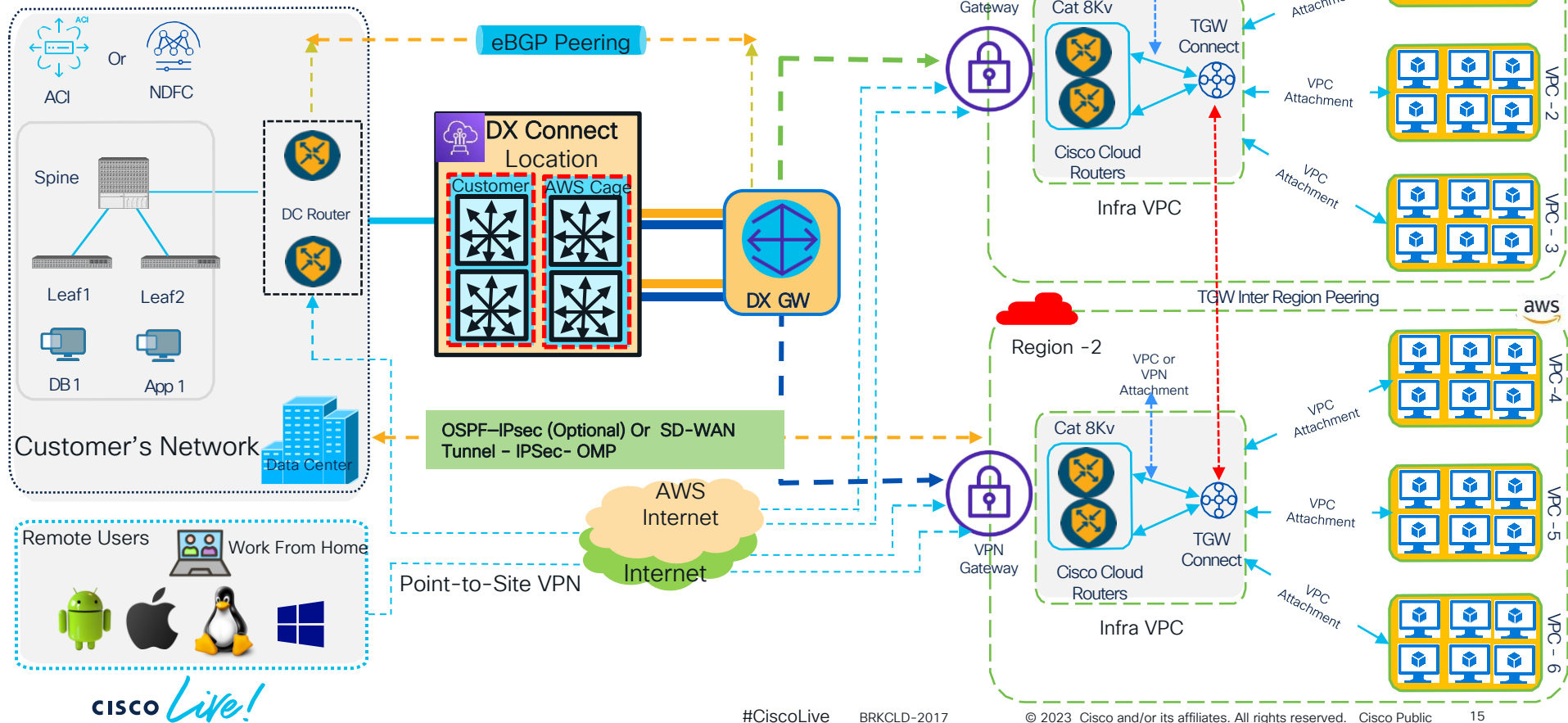
Generic Design for Connecting all CSPs



- Establish IPsec or GRE tunnel between c8kv and Cloud
- Learn cloud routes via BGP
- Mutually Redistribute OMP <- > BGP

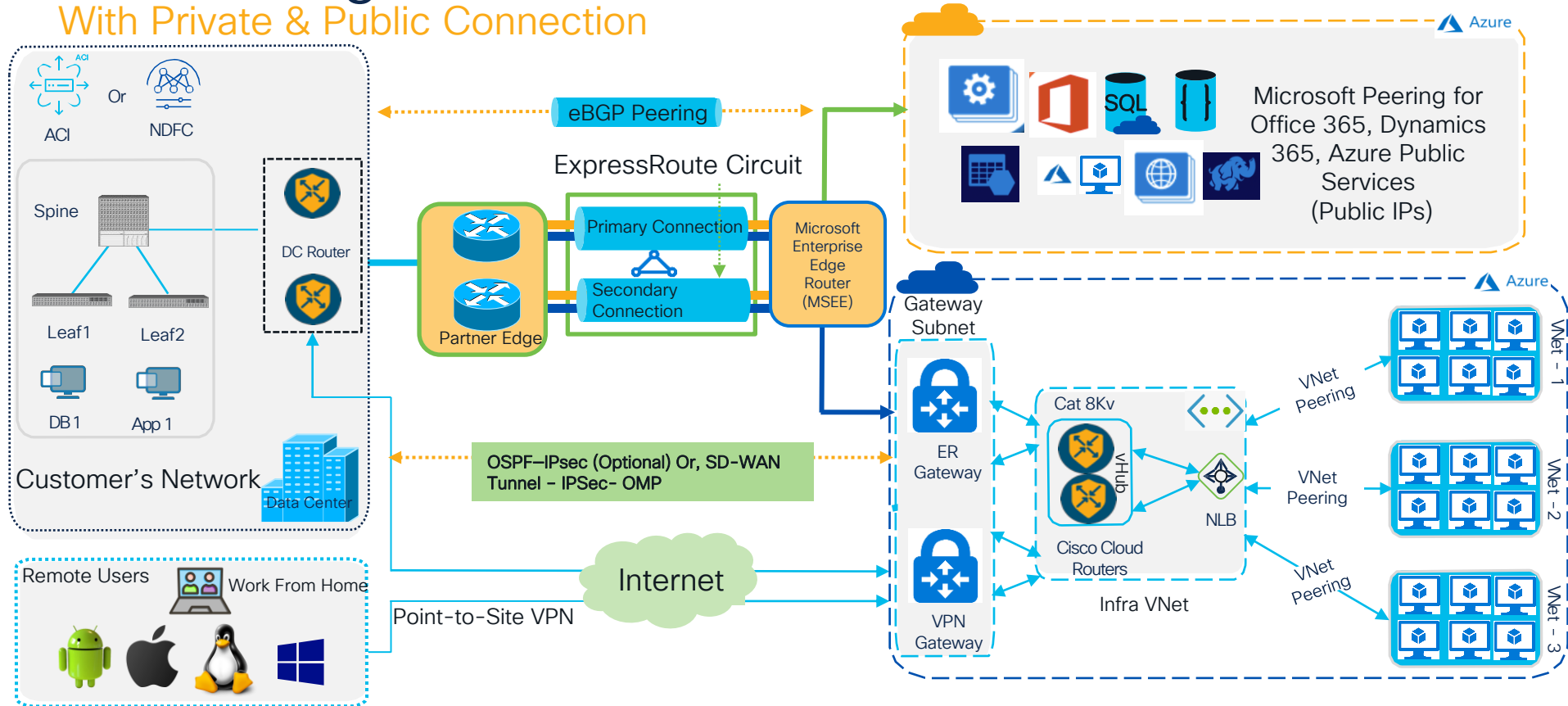
Connecting AWS Cloud

With Private & Public Connection

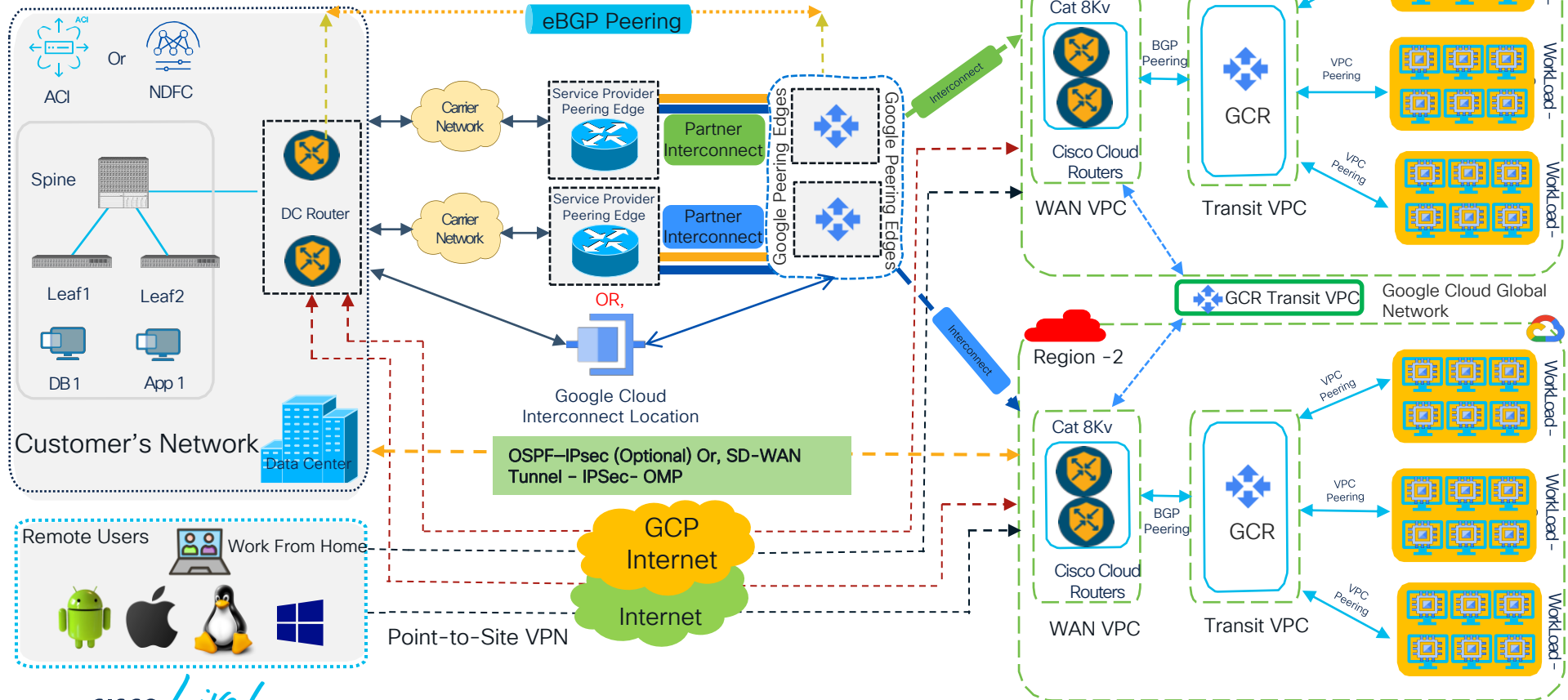


Connecting Azure Cloud

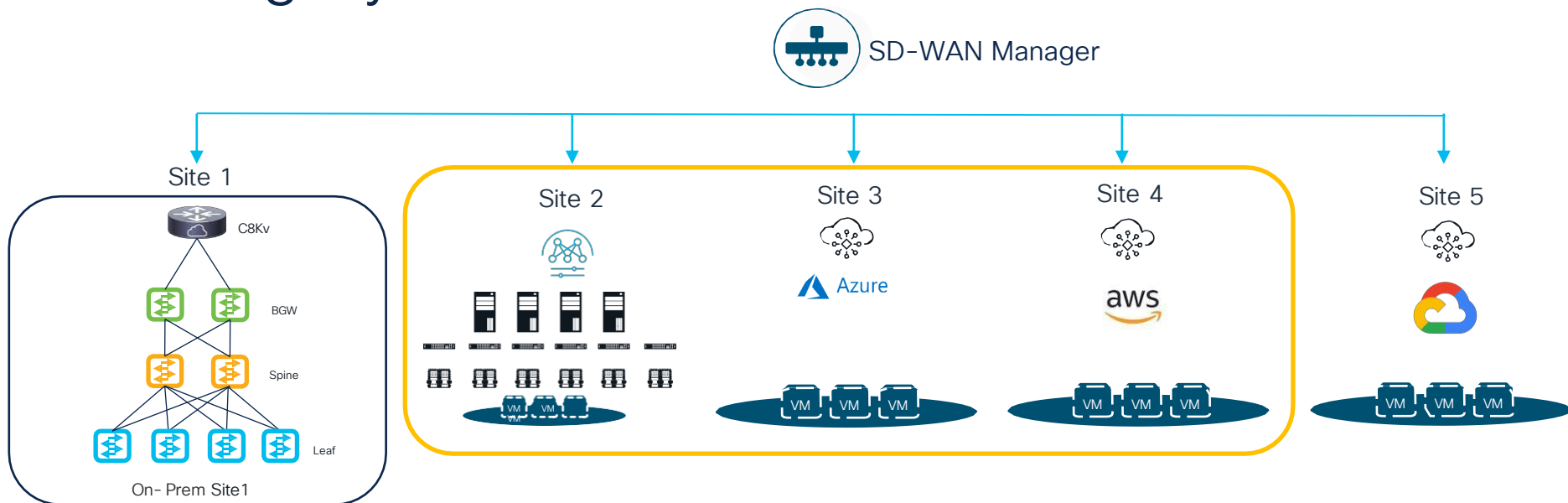
With Private & Public Connection



Connecting Google Cloud With Private & Public Connection



Building Hybrid MultiCloud



Consistent
Network
and Policy



Secure
Communication



Single Point of
Orchestration



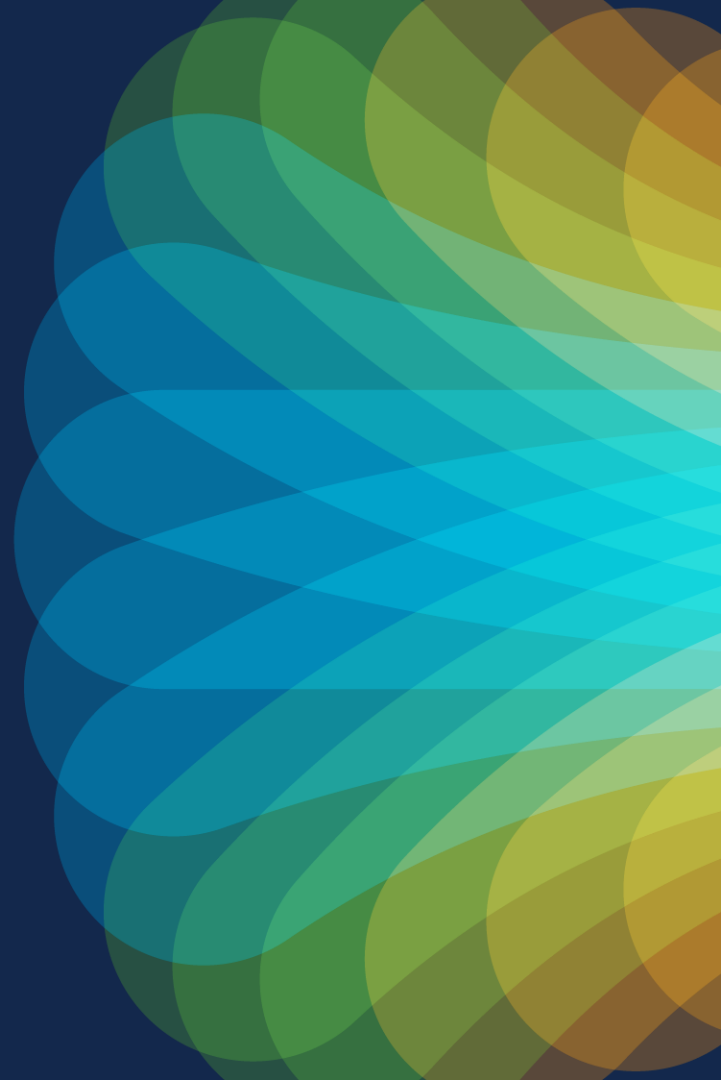
Secure
Automated
Connectivity



Cloud Only
(Multi-Cloud)

Cloud Protect

Security across all aspects of Hybrid Cloud, including data transfer to and from the cloud.



Cloud Security Concerns

“Threat detection in the cloud is more relevant than ever.”



Is my data Safe ?



What are my Security Gaps ?



Is My application vulnerable ?

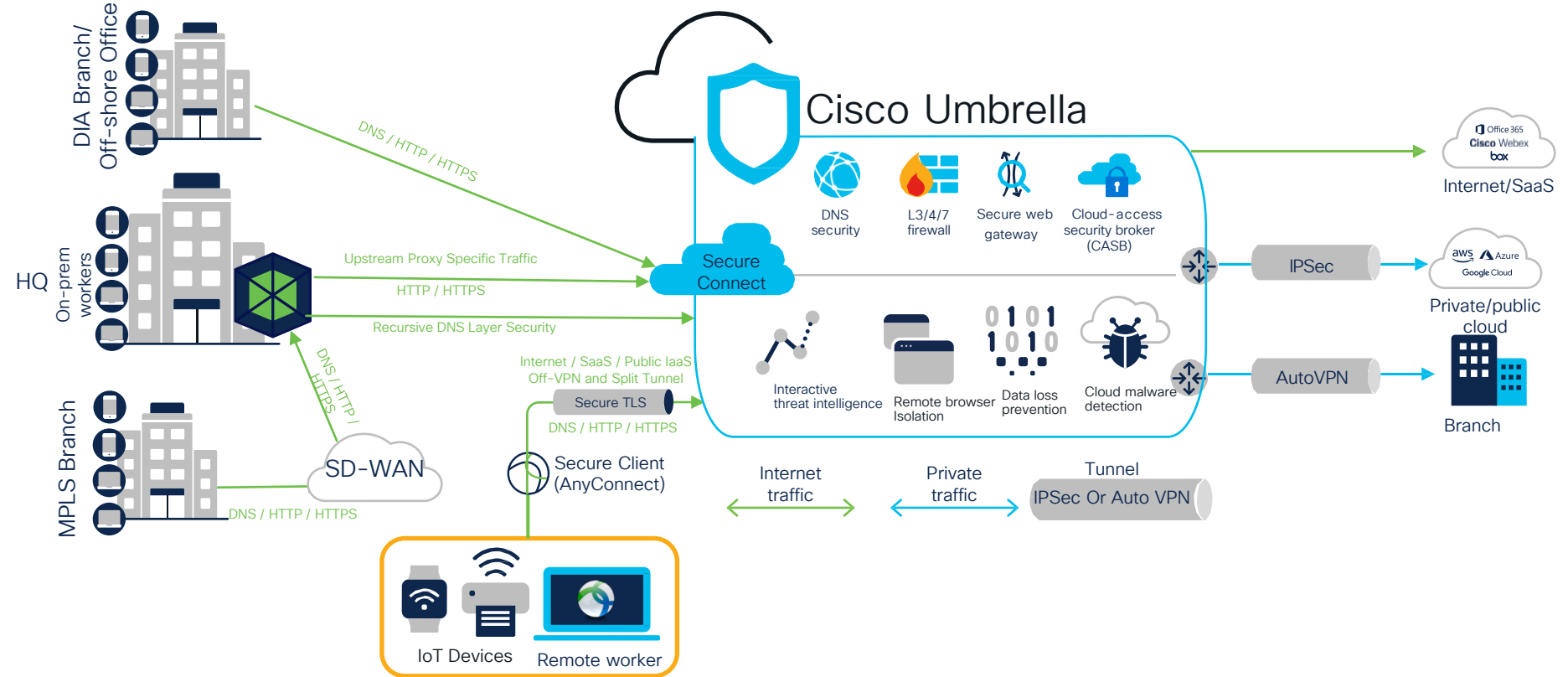


Am I compliant ?



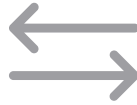
What are users doing in the accounts?

Cisco Umbrella



Cloud-delivered Firewall Management Center

Now the new cloud-delivered Firewall Management Center boosts your productivity even further.



Eliminate change management and update overhead



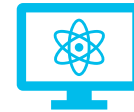
Support at least 25% more firewalls per tenant



No rack space and utility bill, lowering operational cost







Cisco ensures uptime, increasing resiliency

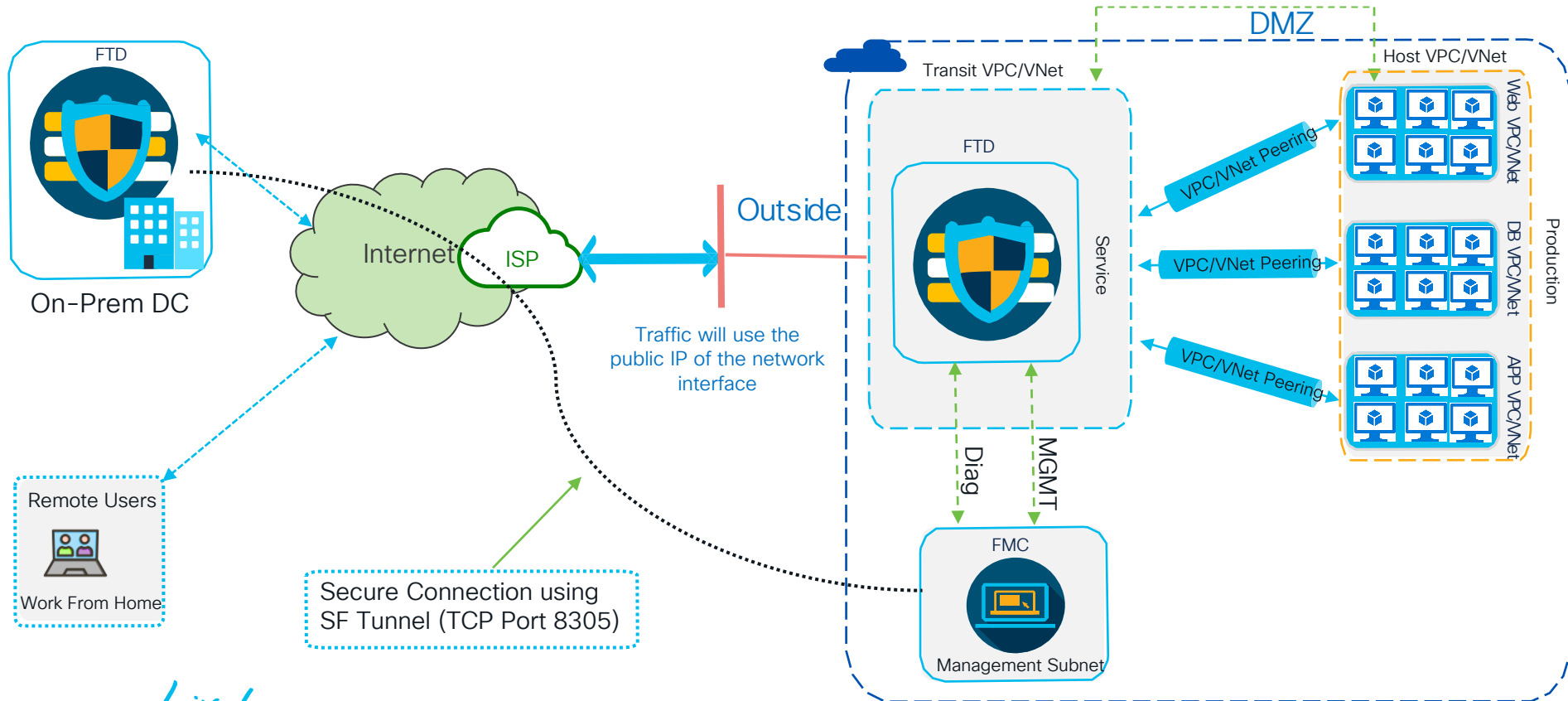


Same look and feel, no learning curve for existing users

Cisco Firewall Offerings in Public Clouds

   			
NGFWv	NGFWv	NGFWv	NGFWv
FMCv	FMCv	FMCv	FMCv
ASAv	ASAv	ASAv	ASAv
* AWS Gov, AWS China	* Azure Gov, Azure China		

Cisco Virtual NGFW – FTD and FMC in the Public Cloud

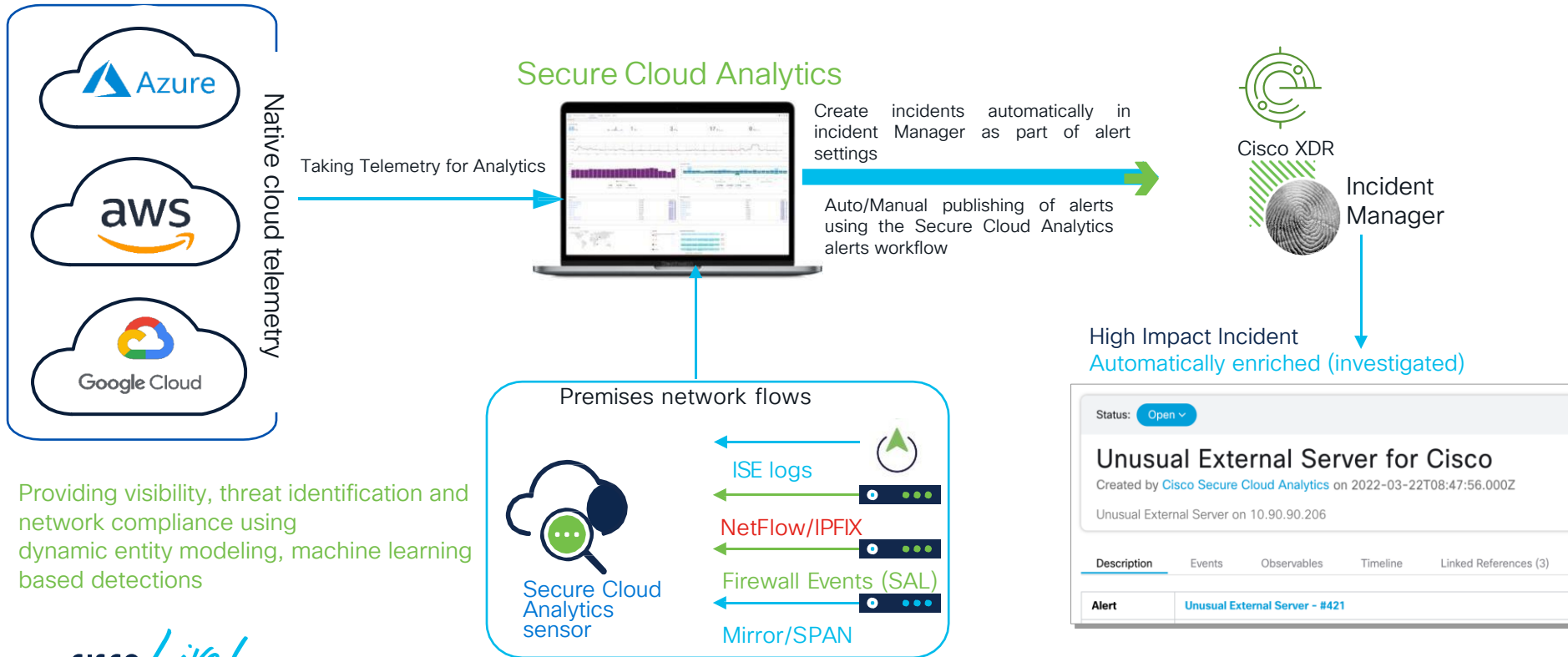


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Cisco Secure Cloud Analytics – Hybrid Cloud Visibility

Natively integrate with multiple infrastructures in the public and private cloud as well as on-premises to get a unified view of the entire workload framework



Cloud Consume

Visibility & Observability

When Issues Arise, So Do Questions



Is this a
NETWORK
Issue?



Is this an
APPLICATION/
CODE
Issue?

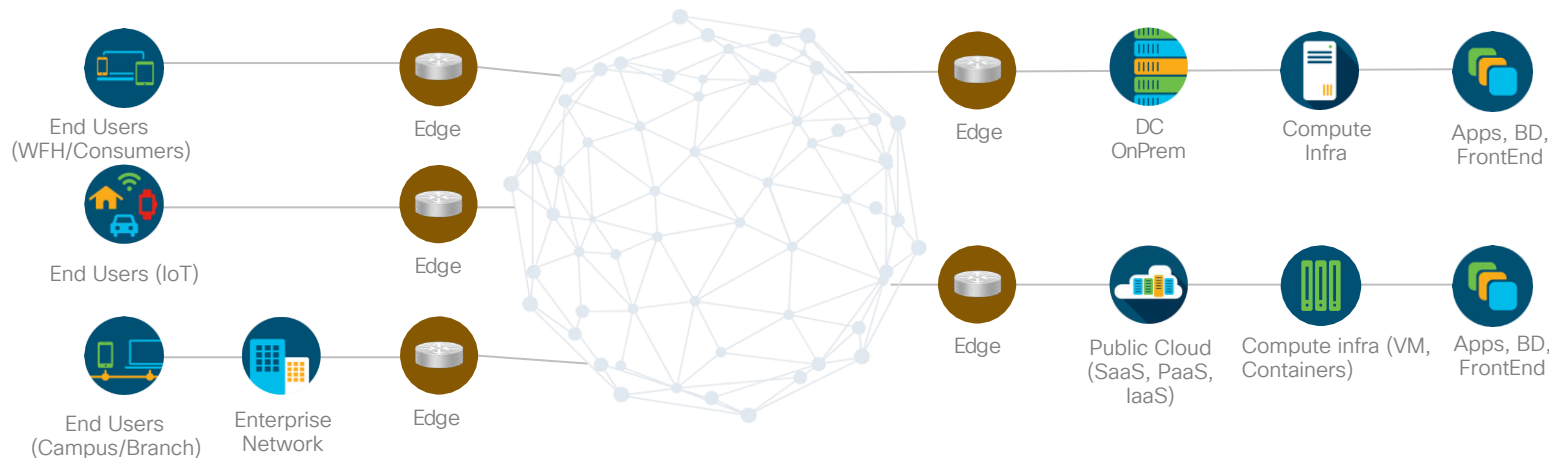
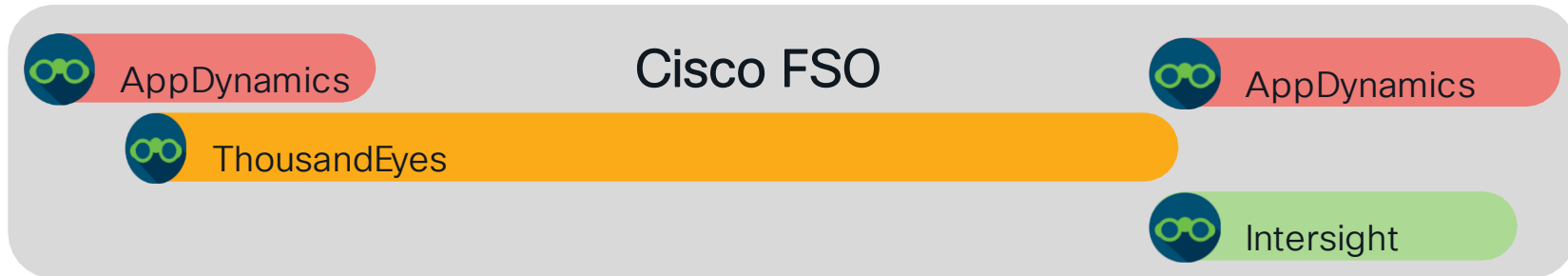


Is this a
RESOURCE/
HARDWARE
Issue?

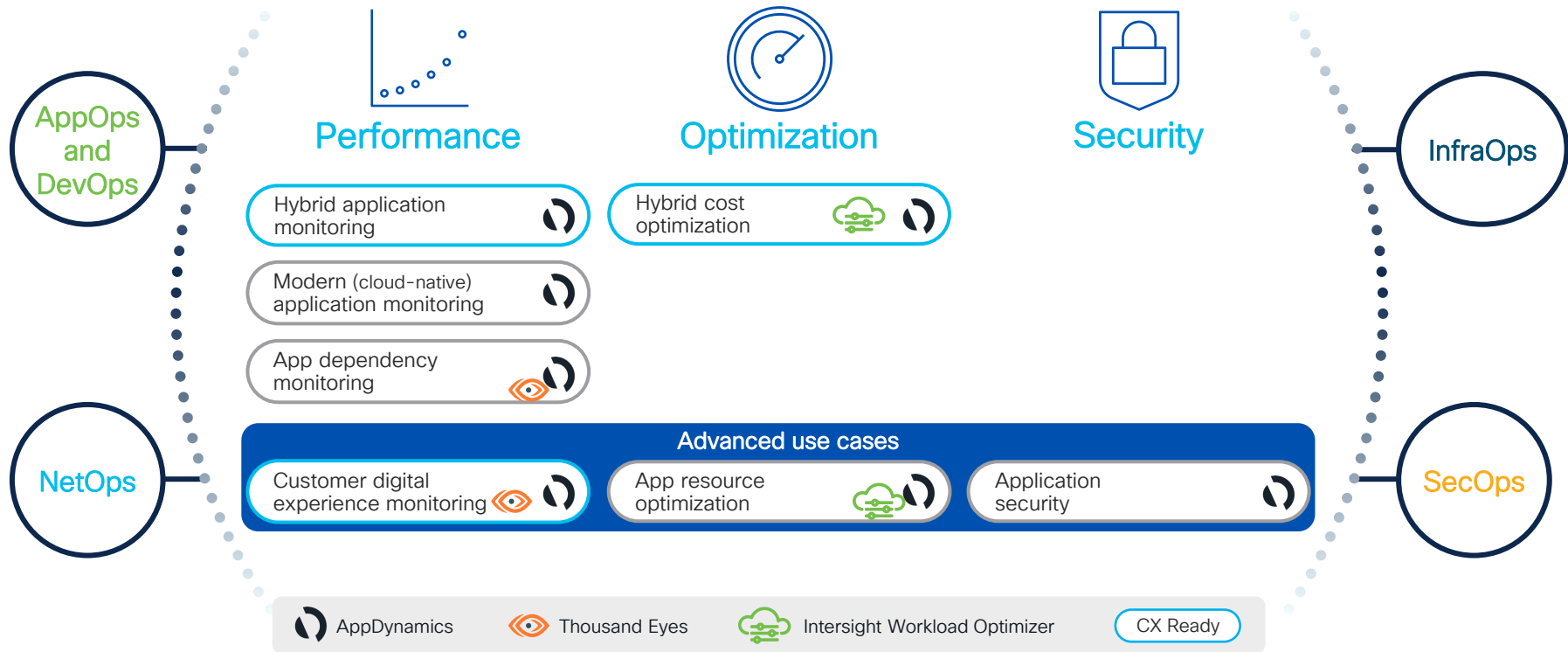


Is this a
USER
Issue?

Cisco Full Stack Observability



Full-Stack Observability use cases & control points



Better together FSO Solution

Internet and Multi-Cloud Visibility

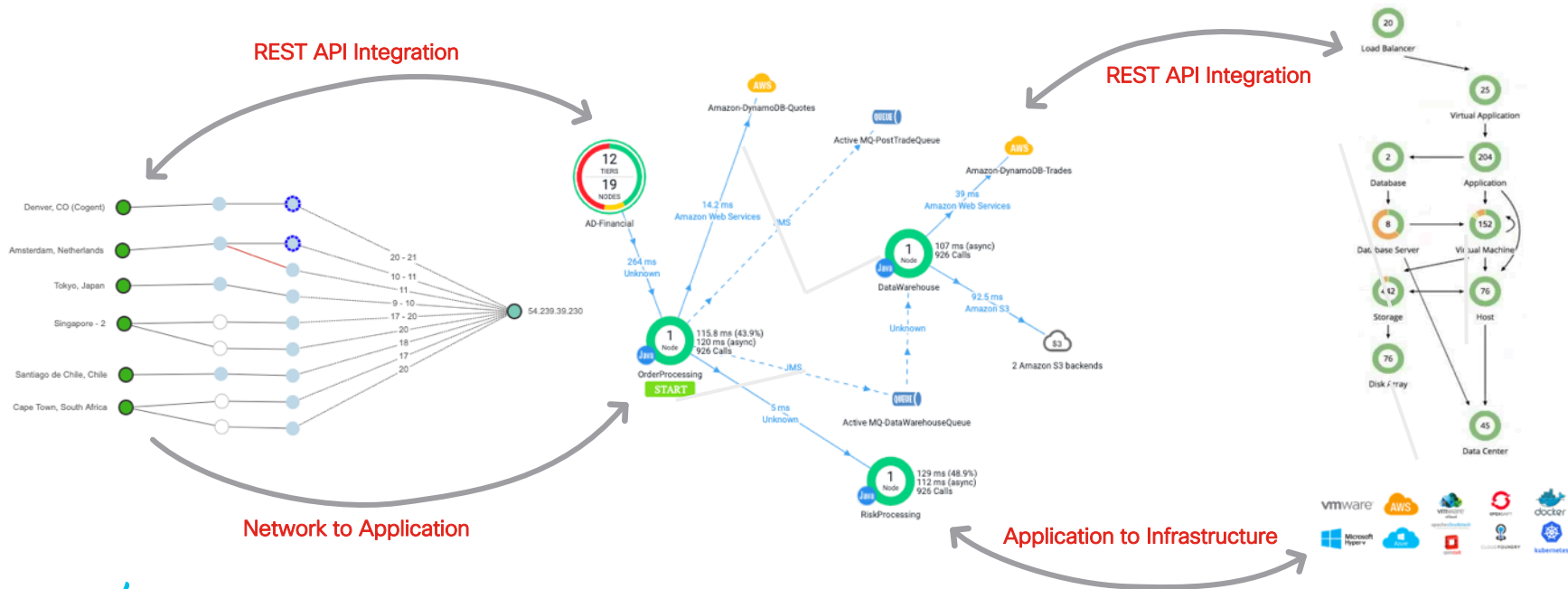
Internet | DNS and RGP | Path visibility | Cloud and SaaS | API and synthetics

Application Performance Monitoring

App and Code | Server and Data Center | Cloud Native

Intersight Workload Optimizer

Full-Stack Observability Intelligent automation AI assisted analytics Hybrid Cloud optimization

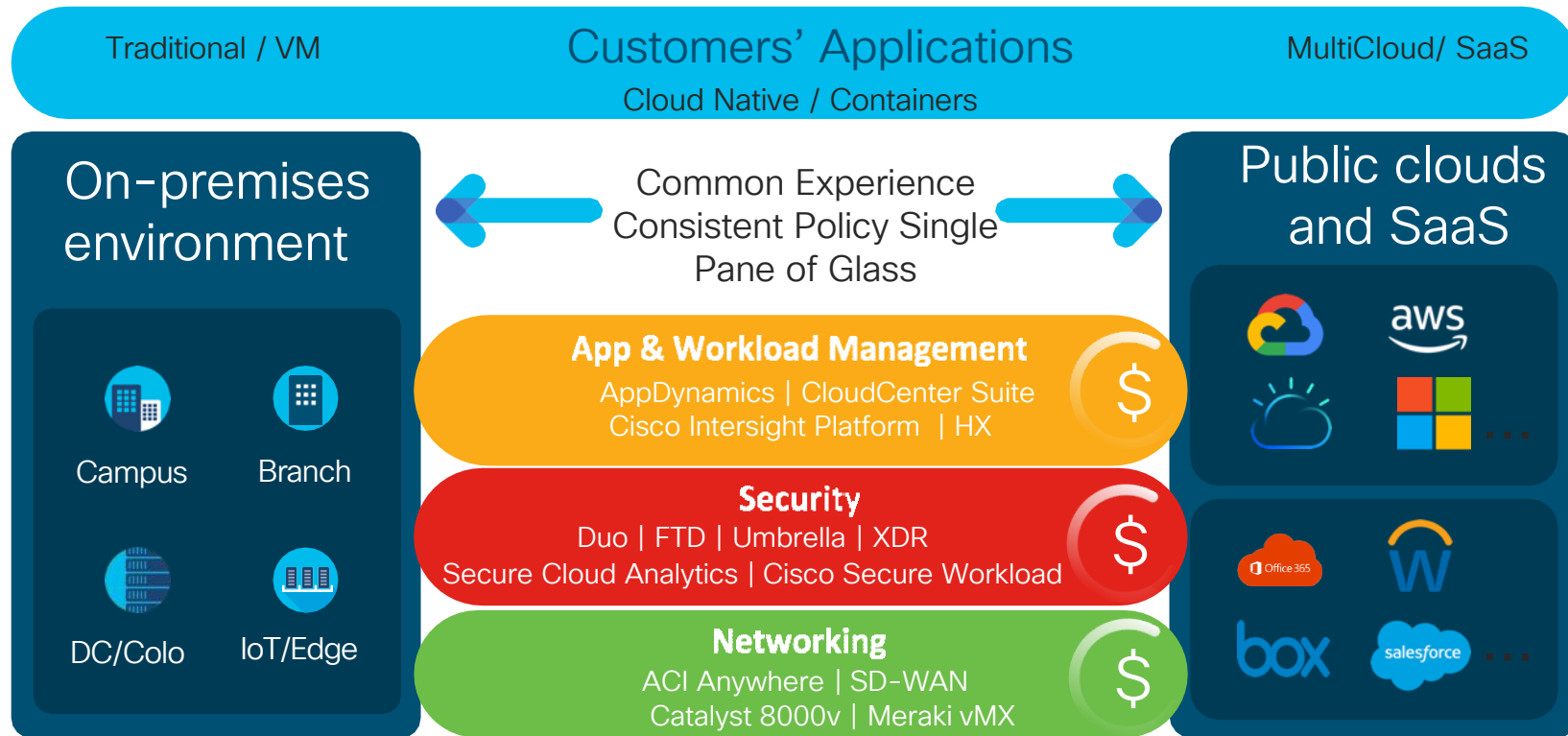


Conclusion

HybridCloud is a journey, not a one-time thing



It is a Hybrid Cloud World



Fill out your session surveys!



Attendees who fill out a minimum of four session surveys and the overall event survey will get **Cisco Live-branded socks** (while supplies last)!



Attendees will also earn 100 points in the **Cisco Live Game** for every survey completed.



These points help you get on the leaderboard and increase your chances of winning daily and grand prizes

Continue your education



- Visit the Cisco Showcase for related demos
- 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



The bridge to possible

Thank you

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Cisco Live Challenge

Gamify your Cisco Live experience!
Get points for attending this session!

How:

- 1 Open the Cisco Events App.
- 2 Click on 'Cisco Live Challenge' in the side menu.
- 3 Click on View Your Badges at the top.
- 4 Click the + at the bottom of the screen and scan the QR code:

