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Unify Multicloud networking with Infrastructure security

With the principle of Catalyst SD-WAN

Prashant Tripathi, Principal/Chief Architect Cisco SD-WAN & Multi-Cloud

@prashant_tri
BRKENT-2702



Cisco Webex App

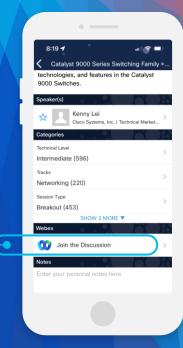
Questions?

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Webex spaces will be moderated by the speaker until December 22, 2023.

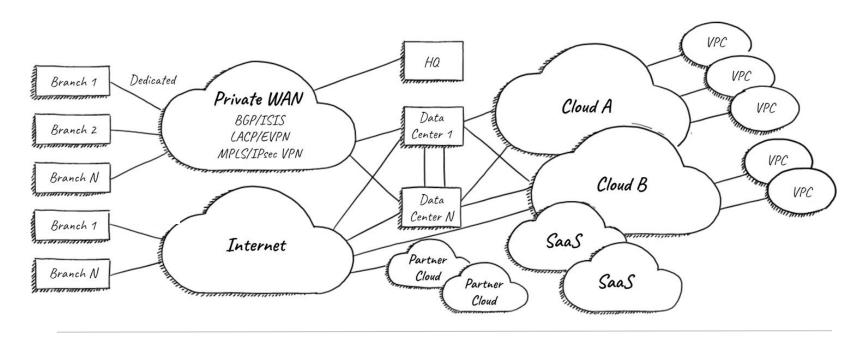


https://ciscolive.ciscoevents.com/ciscolivebot/#BRKENT-2702



- Infrastructure transformation
- Normalizing operations across Multi-Cloud
- SD-WAN Multi-Cloud Integration & **Use Cases**
 - AWS
 - Azure
 - GCP
- Network security insertion

Managing enterprise networks is increasingly complex



Months to build topology & capacity

Multiple control, data & management planes

Complex hybrid & multicloud networks



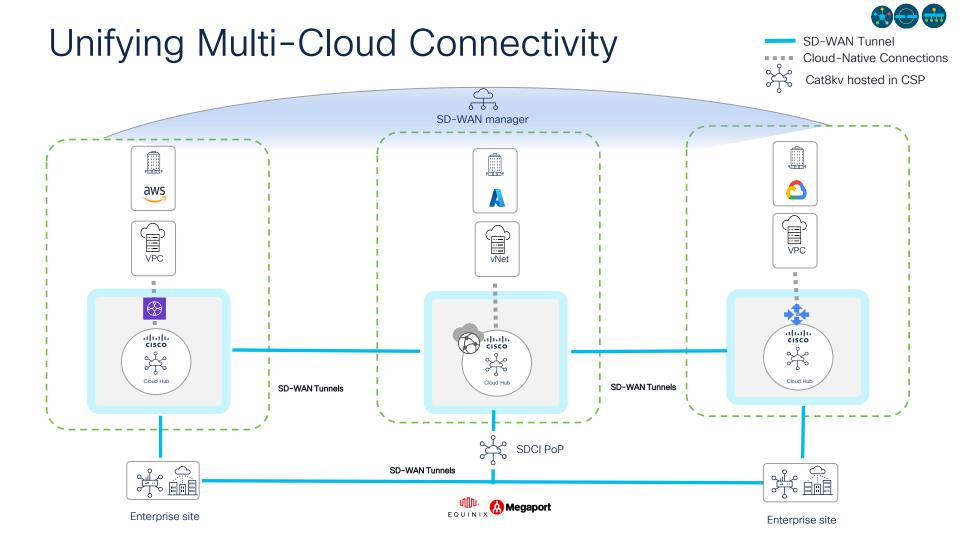




Normalizing operations

Across Multi-Cloud





Cisco SD-WAN Multi-Cloud

Integrations & Use Cases



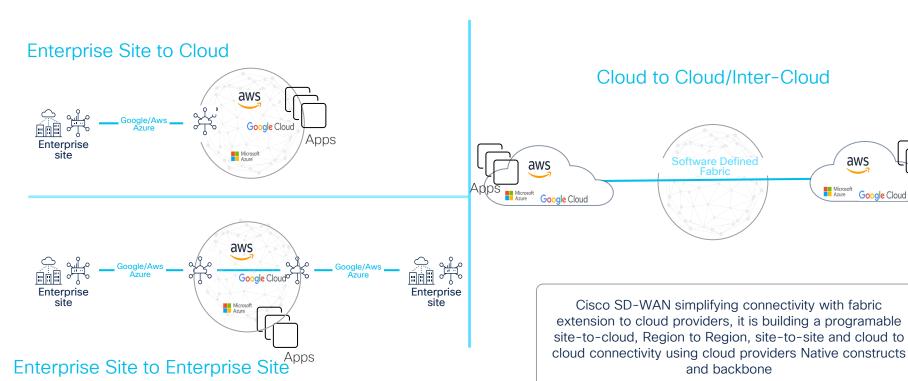
Cisco SD-WAN Cloud Hub- Use Cases



Cisco SD-WAN virtual outer hosted at Cloud Service rovider POP



= Cisco SD-WAN router onpremises

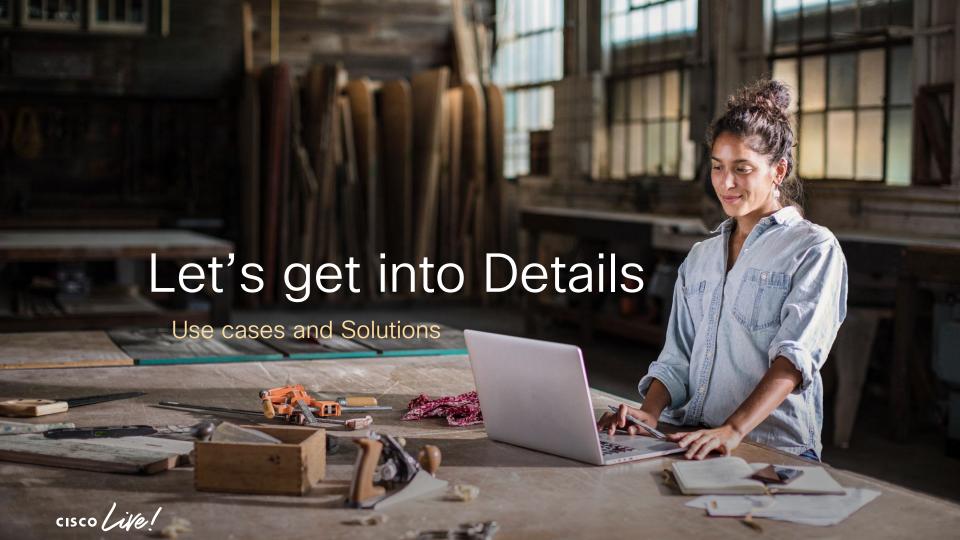


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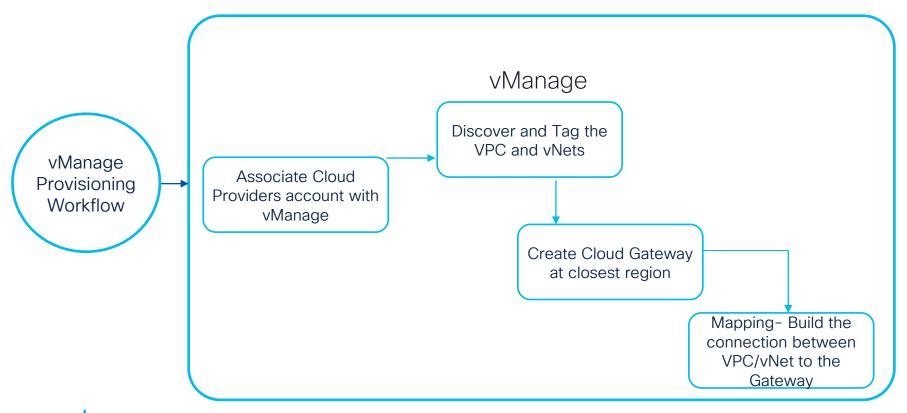
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Just a few steps to connect Multi-cloud

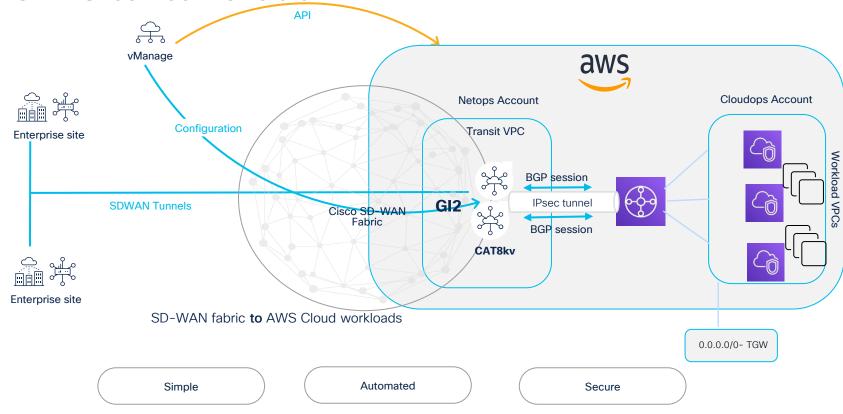


Integration and connectivity to AWS With TGW



SD-WAN Native Integration using **Ike IPSEC** between c8kvs within Transit VPC and Transit Gateway

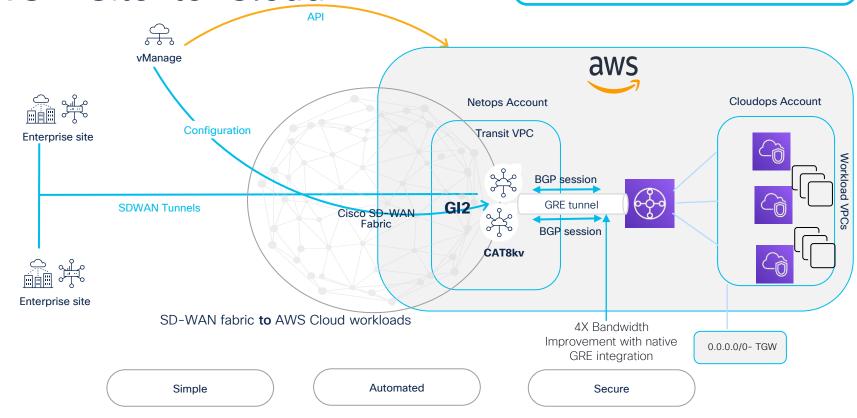
AWS - Site-to-Cloud





AWS - Site-to-Cloud

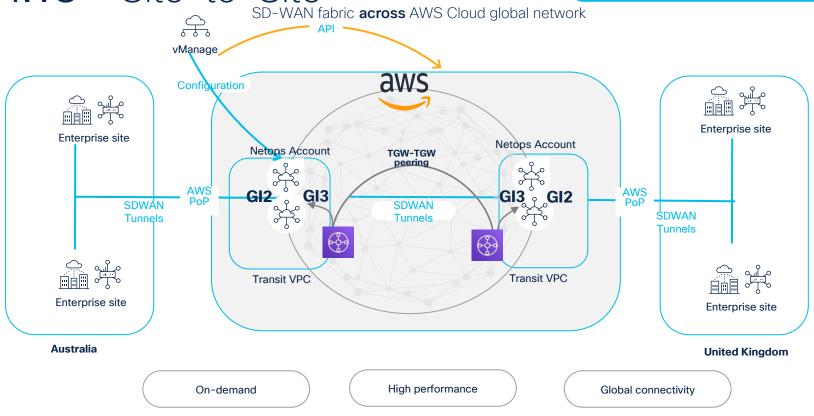
SD-WAN Native Integration using **GRE** (TGW Connect) between c8kvs within Transit VPC and Transit Gateway





TGW-TGW peering to build Backbone. Control policy or Multi region Fabric required for traffic redirection

AWS - Site-to-Site



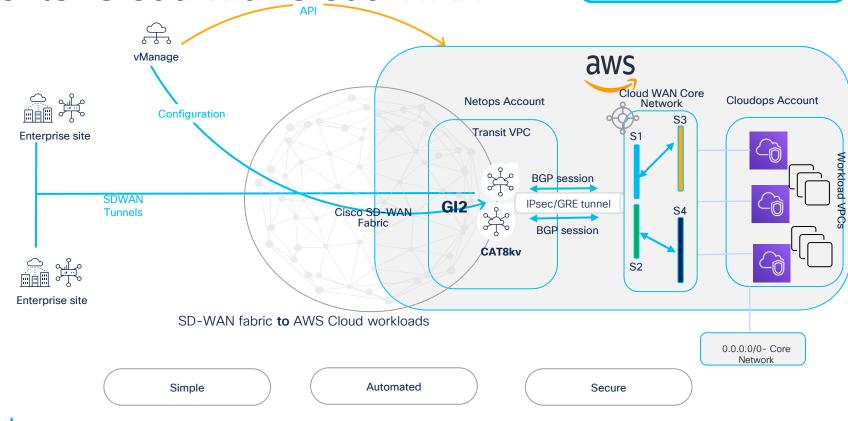


Integration and connectivity to AWS With Cloud WAN



Site-to-Cloud with Cloud WAN

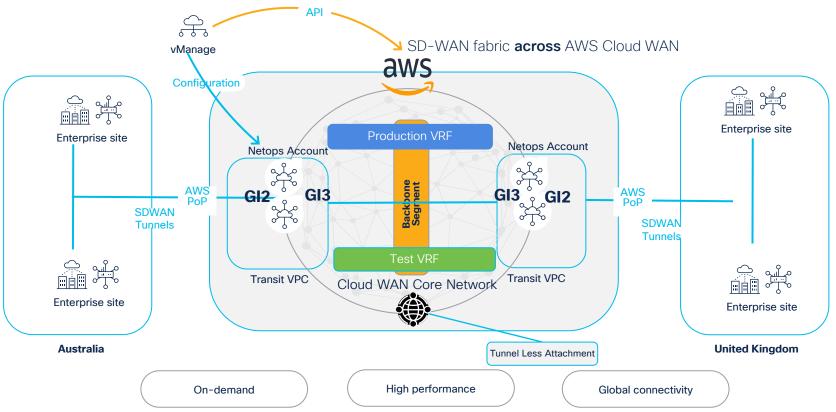
SD-WAN Native Integration using Ike IPSEC or CONNECT (GRE) between C8Kvs and Cloud WAN Segments.





Site-to-Site with Cloud WAN

High performance dynamic architecture that is uniquely co-innovated by Cisco and AWS



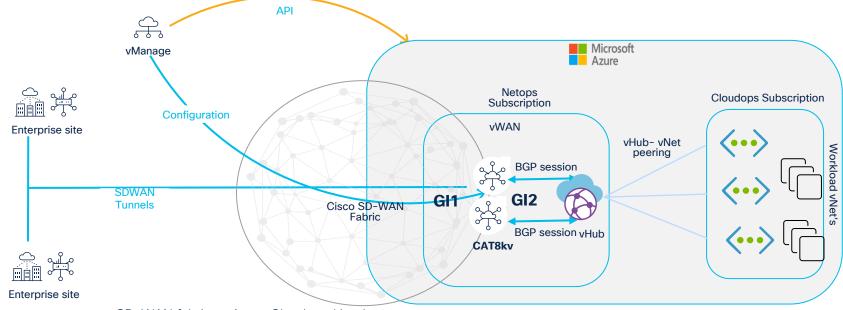


Integration and connectivity to Azure Cloud



CAT8k Network virtual appliances are hosted in vHub, running BGP to vHub control plane to learn vNet mappings

Azure - Site-to-Cloud



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SD-WAN fabric to Azure Cloud workloads

Simple

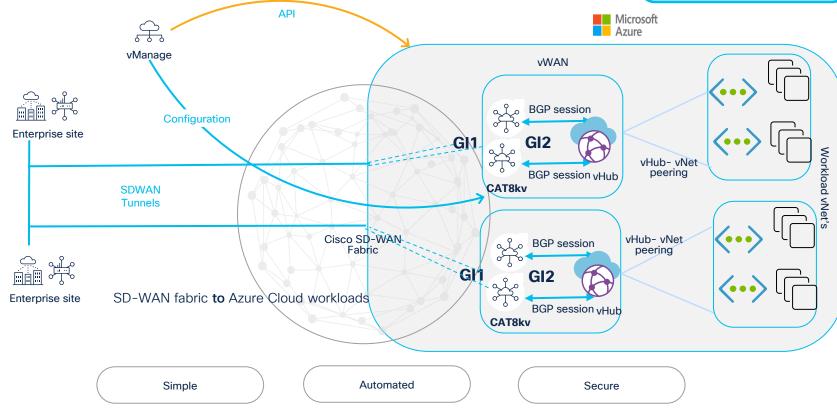
Automated

Secure



Azure - Site-to-Cloud with Multi vHUBs

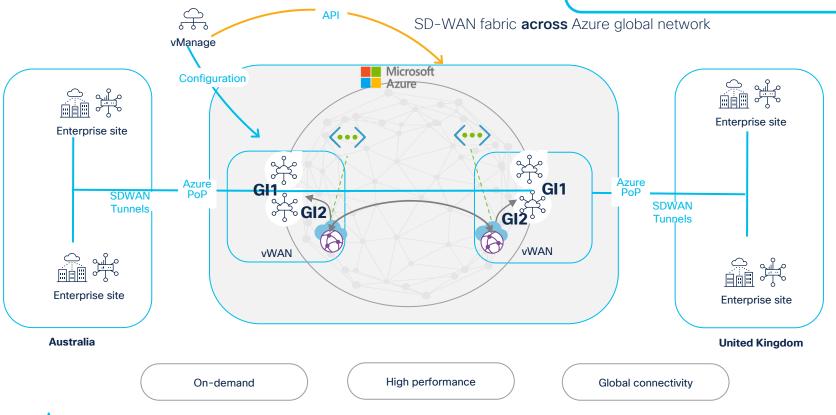
CAT8k Network virtual appliances are hosted in Multiple vHub withing the same Azure Region and subscription





Azure - Site-to-Site

SDWAN tunnels with Azure Public IPs on NVAs go through Azure Backbone, Azure vHub to vHub used for Intra-Vnet traffic. Control policy or Multi region Fabric required for traffic redirection



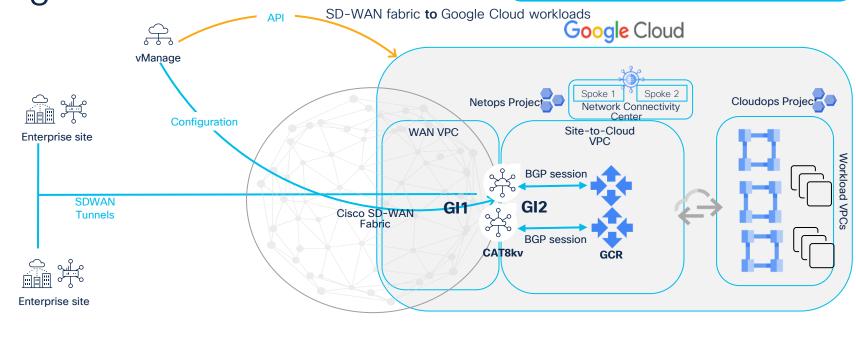
Integration and connectivity to GCP

Network Connectivity Center



Google Cloud - Site-to-Cloud

Cisco SD-WAN Cloud Hub will be hosted on Google cloud, it runs BGP from service VPN to Google cloud routers to learn and advertise routes



Simple

Automated

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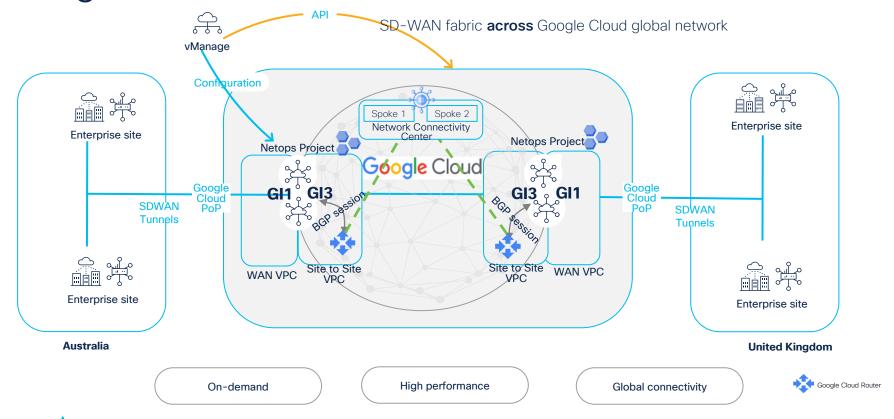
Secure





Google Cloud - Site-to-Site

SD-WAN will leverage cloud service provider's backbone (Google NCC) to extend SD-WAN fabric from any site to Site, Control policy or Multi region Fabric required for traffic redirection

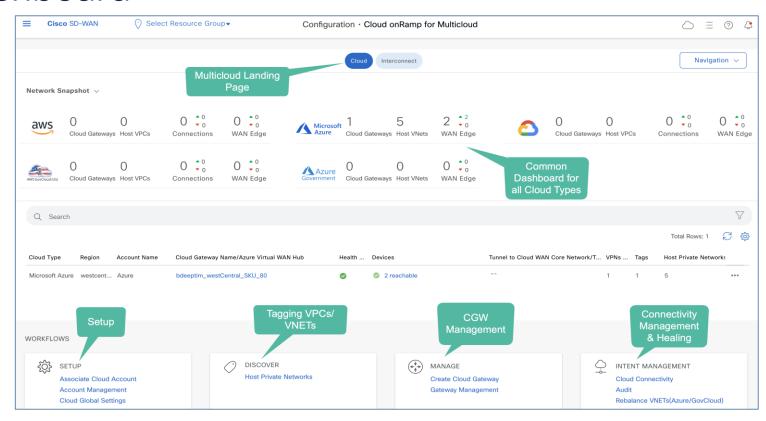






Dashboard

A Unified Dashboard to manage and monitor all Cloud connectivity

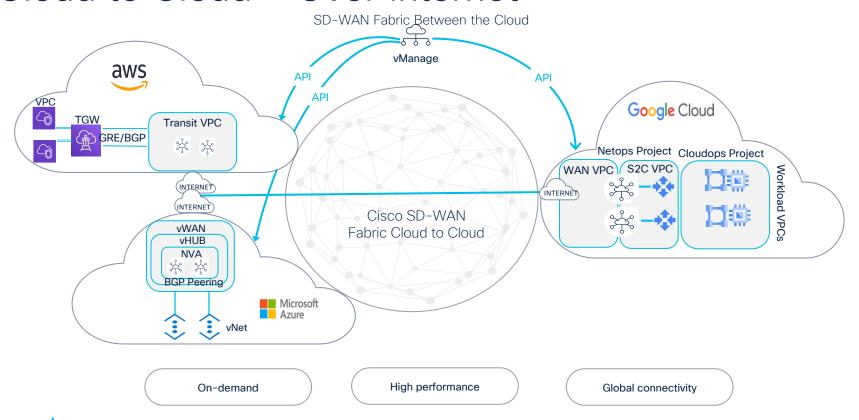




Cloud to Cloud Connectivity

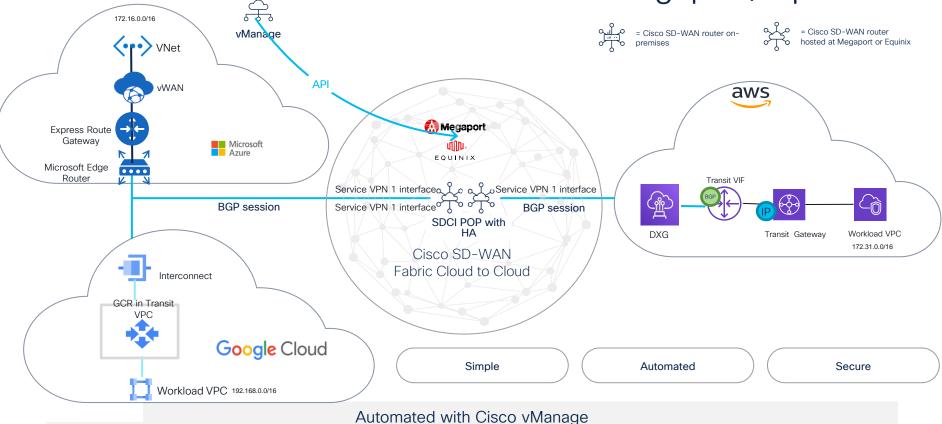


Cloud to Cloud - Over Internet





Cloud to Cloud - Private connect from Megaport/Equinix

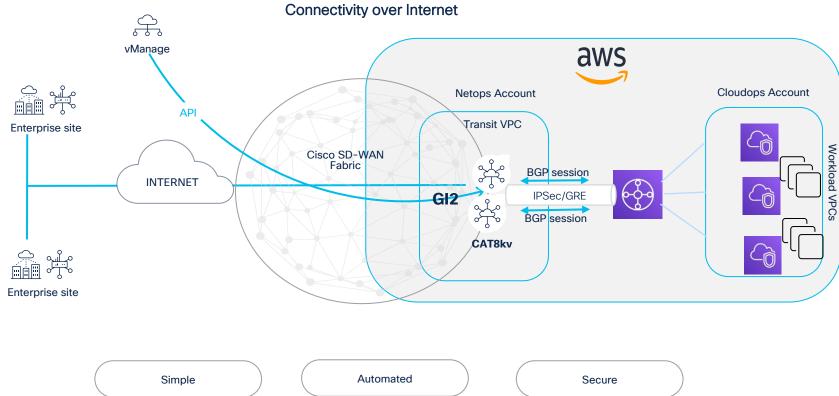




Transport Connectivity options



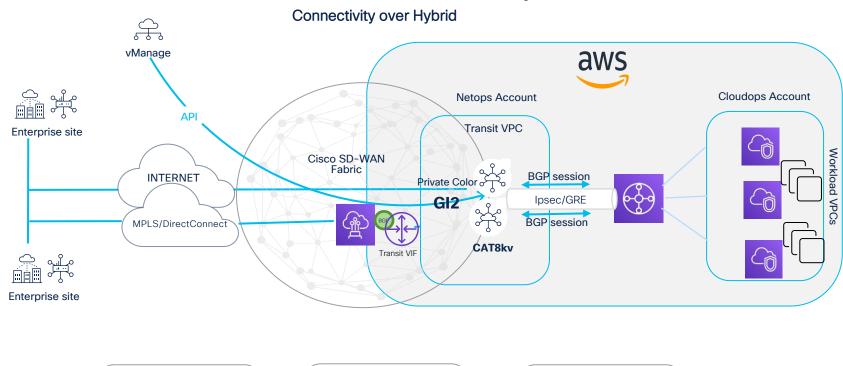
On-Prem to AWS connectivity - Over single Transport





On-Prem to AWS- Resilient connectivity

Simple

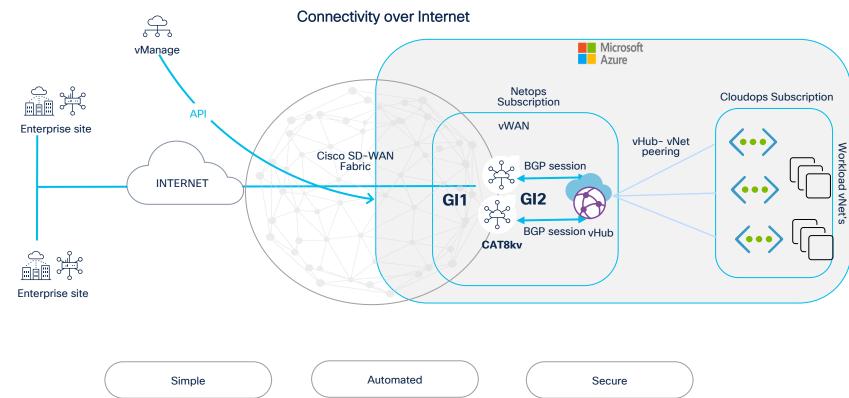




Automated

Secure

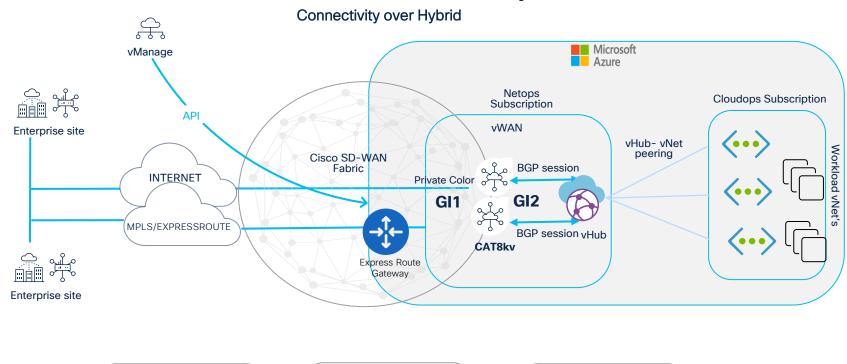
On-Prem to Azure connectivity - Over single Transport





On-Prem to Azure Resilient connectivity

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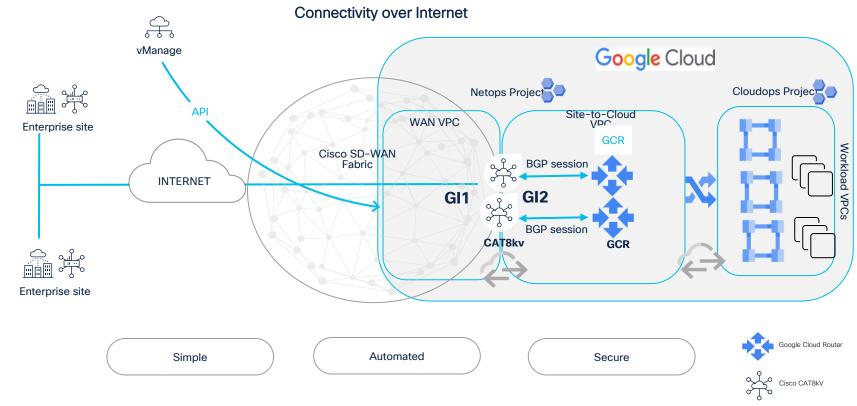


Automated

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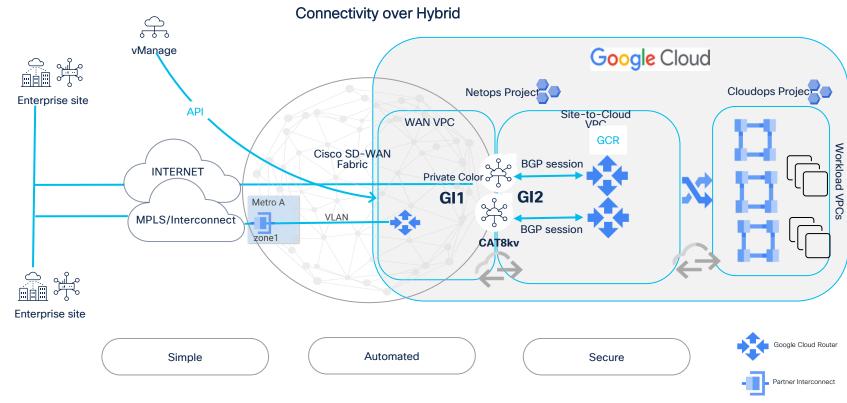
Secure

On-Prem to Google connectivity - Over single Transport



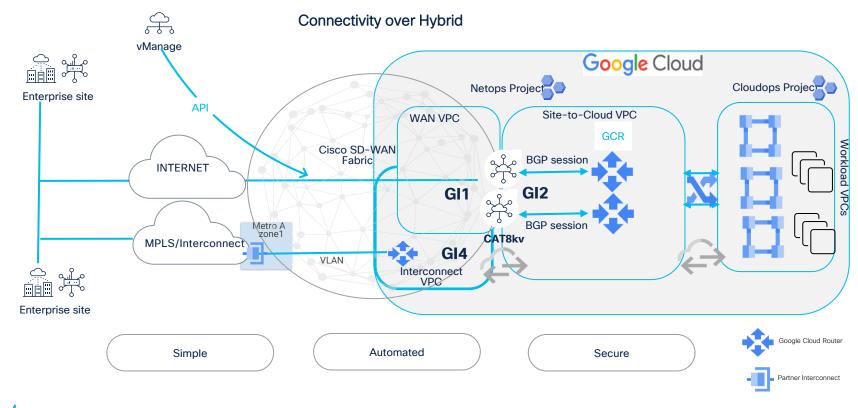


On-Prem to AWS- Resilient connectivity-1





On-Prem to AWS- Resilient connectivity-2



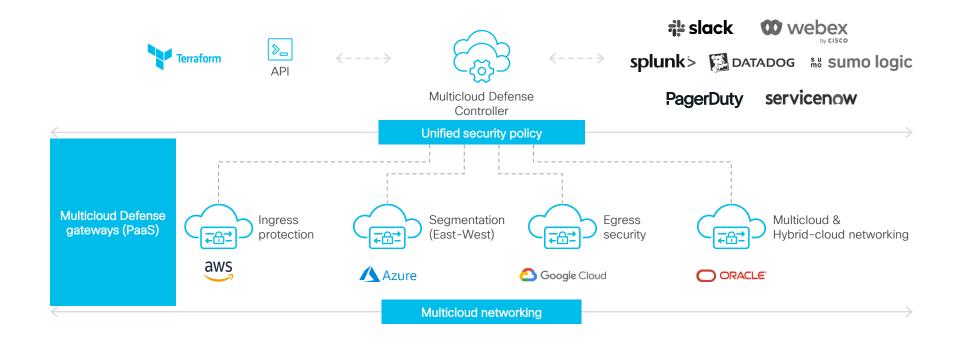


Simple Security Insertion

Cisco Multicloud Defense

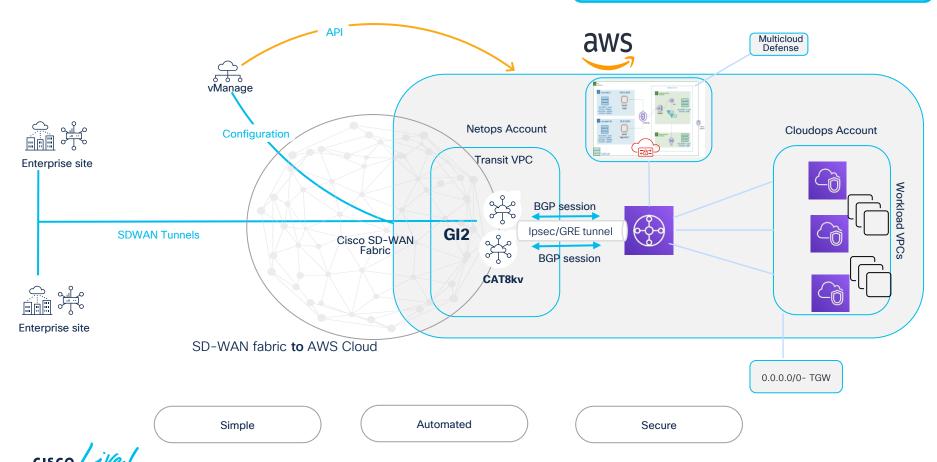


Cisco Multicloud Defense



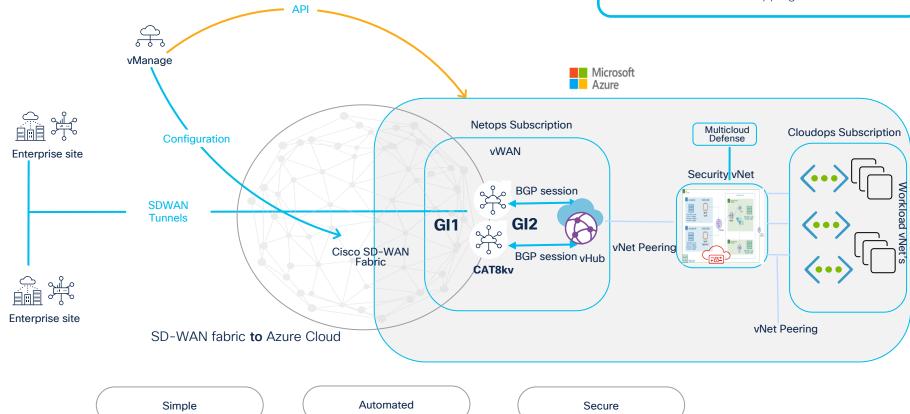
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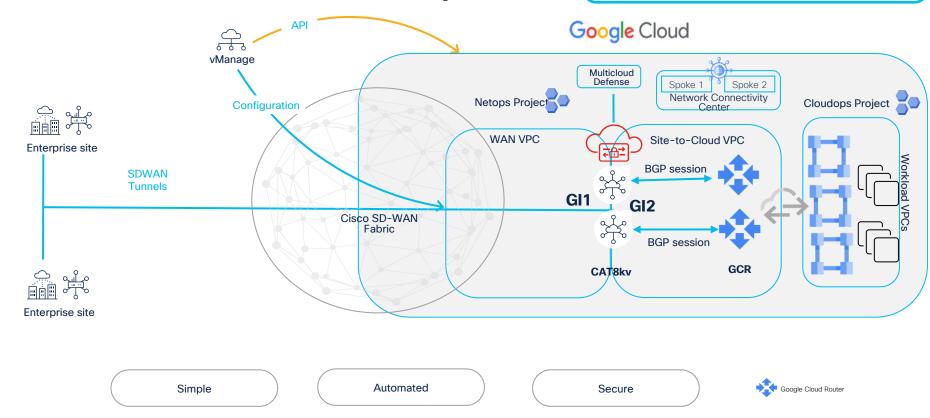


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Google Cloud - Site-to-Cloud

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"Connectivity and security to Multicloud has been unified."

Prashant Tripathi Cisco







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