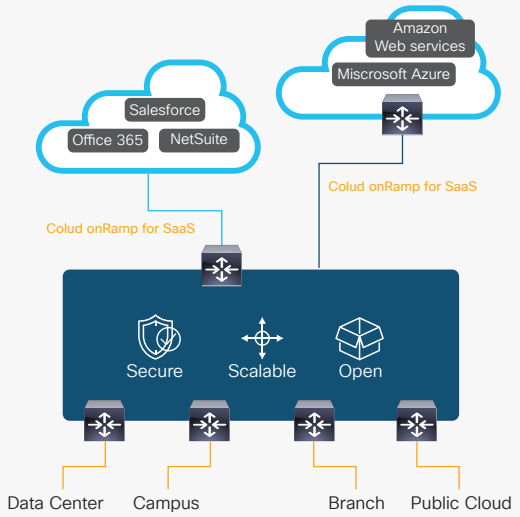
Cisco SD-WAN Cloud onRamp

Overview

Traditional WAN infrastructure is not designed for the Cloud. As enterprises aggressively adopt SaaS applications like Office 365 and Public Cloud infrastructure like AWS and Azure, current network infrastructure poses major problems related to complexity and user experience.

How it works

The Cloud onRamp feature built on Cisco SD-WAN fabric delivers wide-ranging capability for cloud transformation across both Saas and IaaS.



Saas/IaaS Challenges

Quality of experience
for SaaS applications like Office 365 and Salesforce

Scale
required for direct branch-to-cloud connectivity

Isolation and security
for workloads across lines of business

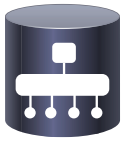
Inter-region peering between workloads
across multiple regions and multiple cloud providers

Resilient access
Resilient access across multiple DMZs and multiple transports

Cloud onRamp for IaaS

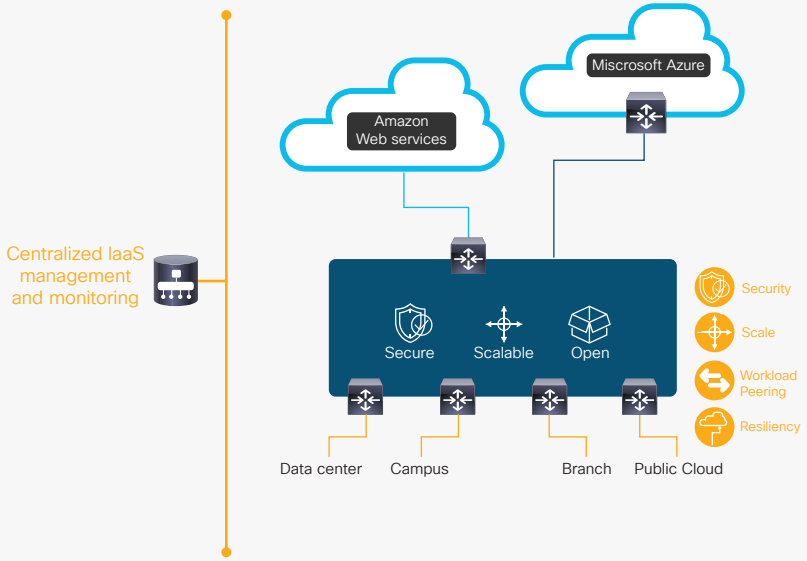
vEdge Cloud Router

A virtualized router that delivers all of the capability of vEdge router. vEdge Cloud is supported in most public cloud environments like AWS and Azure. It enables enterprises to simplify workflows for building cloud workloads with simplified management and superior performance.



vManage application

Developed on the vManage platform this new application orchestrates the bring-up of vEdge Cloud routers in an enterprise cloud environment. It works across multiple regions and multiple cloud providers, and securely connects IaaS instances to the desired branch and data center locations.



Benefits of Cloud onRamp

Cloud onRamp for IaaS

- **Direct branch to cloud connectivity** at scale across multiple cloud regions and cloud providers
- Cloud gateways deployed with **High Availability**
- **Extend all vFabric** capabilities (eg: application visibility and steering, and transport resilience) to IaaS/PaaS instances in AWS and Azure providers
- **Single solution** for policy management and configuration **across branch and cloud environments**

Cloud onRamp for SaaS

- **Improved SaaS Application Experience** for Enterprise branch users
- **Visibility** into SaaS application performance based on network characteristics through the vQoE score
- **Resilient access to SaaS application** by utilizing multiple DMZs/Internet Gateways

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Cloud onRamp for SaaS

Cloud onRamp SaaS gateways

These are Internet gateways that monitor performance and availability of the important SaaS applications. This performance data allows the enterprise to dynamically determine the best Internet exit from the branch towards popular SaaS applications. Internet gateways are designated vEdge routers that are part of the Cisco SD-WAN Fabric and located in branch, regional Colocation facilities and data centers.

Quality of Experience (QoE)

A score meant to provide visibility into application quality of experience based on underlying network characteristics. The score relies on real-time data utilizing probes sent from vEdge routers to popular SaaS applications.