



# Data Center Innovation Day





# Journey to the Multicloud

Jarut Nakaramaleerat  
Data Center, Sales Manager  
Cisco Systems

# 3 trends that dominate our world today



Data

Everywhere



Applications

Everywhere



Intelligence

Everywhere



# Data Everywhere

By 2022, as a result of digital business projects, **75% of enterprise-generated data will be created and processed outside the traditional, centralized data center or cloud.**

Gartner: Digital Business Will Push Infrastructures to the Edge



IoT devices



Video Surveillance



Sensors



Edge Computing

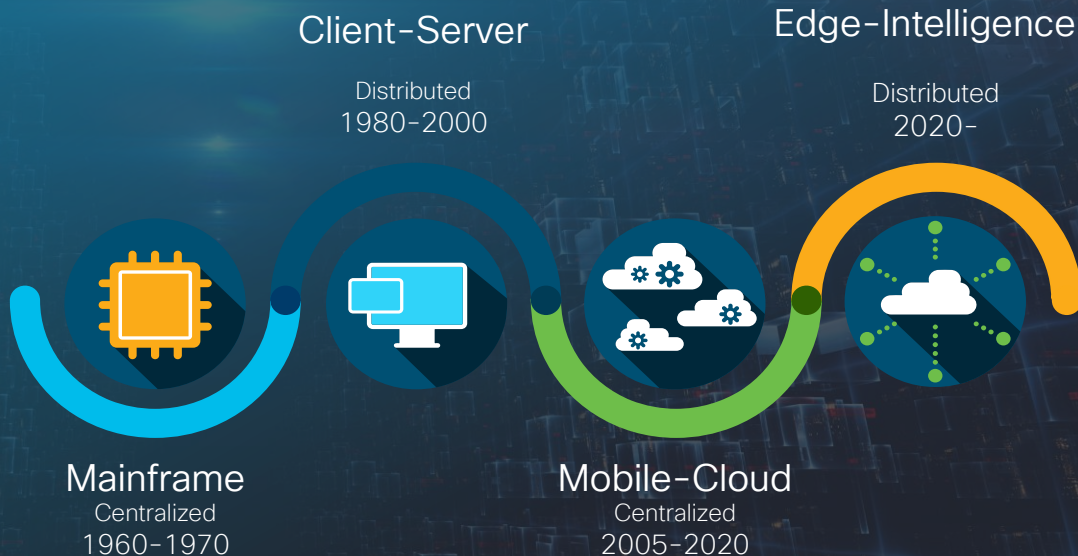


Autonomous Vehicles



# A Brief history of Application Architecture

By 2021, installed and in use container instances will amount to more than **3.5 billion**, with **over 20% of them running in distributed locations serving edge and IoT workloads.**



# AI is Re-defining EVERY Businesses Today

75%

executives say AI will allow them to move into new businesses and ventures.

84%

executives say AI will enable them to obtain or sustain a competitive advantage.

amazon

Lock-in  
Customer Loyalty

★ macy's

Customer  
Support

PayPal


Secure  
Enterprise

NETFLIX


Content.  
Optimization

# Food Service Industry

“Represents 2.1% of the US GDP” – USDA, 2016



**Domino's  
Pizza**



Voice Assistant w/  
user preferences



**MISO ROBOTICS**  
KITCHEN ASSISTANTS



Cameras and  
Heat Sensors



**KFC**



Facial Recognition



**telspec**  
Reimagine your health up



Molecular  
Composition



Every Application will be ML-Powered and AI-Enabled



Developers will demand Multicloud flexibility

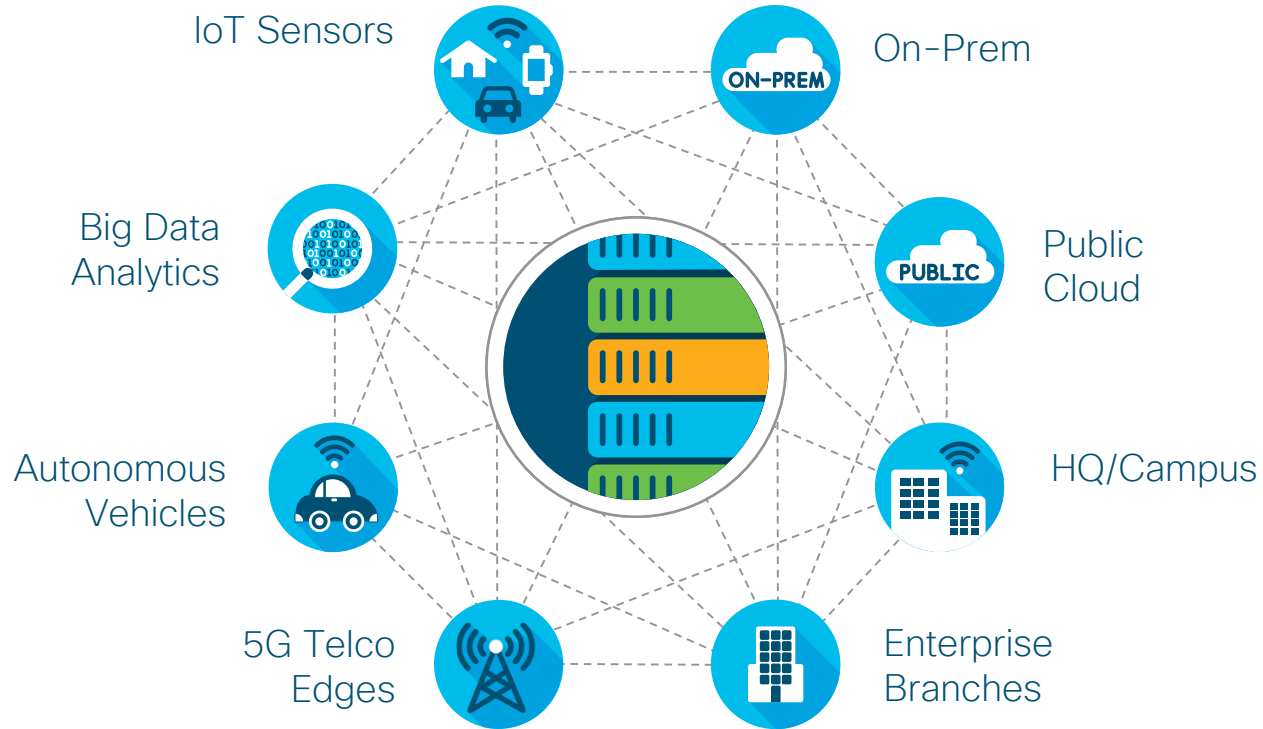


Data will continue to be more distributed

**Data Center is where the data is**



# Data Center. Everywhere





## People

Role of IT is becoming more critical, yet more complex



## Technology

Massive disruptions in Data, Apps, Security

# Customer Journey with Cisco DC



Automation



Multicloud



Security

# Cisco's Two Prong Approach for Automation



Open Interfaces

# BYO Automation



Open

- Standard APIs across portfolio
- Programmable hardware
- Developer Friendly
- Extensible for homegrown tools



ANSIBLE



openstack®



CANONICAL

CFEngine



python™

splunk>



redhat.

vmware®

# Automate the Entire Application Lifecycle



Interoperable



Open

- No Silos between Network, compute, storage, security
- 150+ Eco-System Partners
- Policy based management

ACI | AppD | Tetration

Network Assurance Engine

Intersight | HyperFlex | CWOM



Cisco HyperFlex  
Systems with  
Intel® Xeon®  
Platinum  
processors

# Cisco Data Center Automation Summary



Compute

Cloud-managed

Intersight | UCS | HyperFlex



Network

Intent-Based

ACI | Tetration | NAE | Nexus



Workloads

Closed-Loop Systems

AppDynamics | Tetration | CWOM

# Customer Journey with Cisco DC



Automation

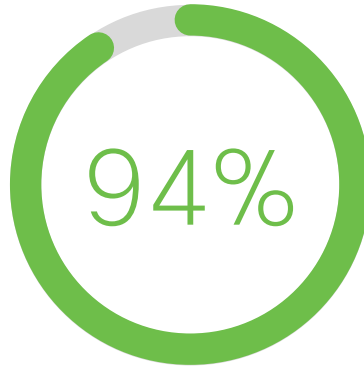


Multicloud

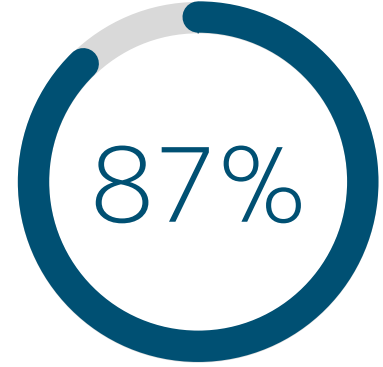
# It's a Multicloud World



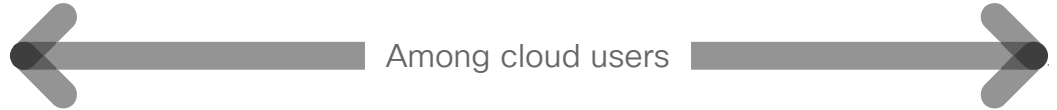
Evaluating or using  
public cloud



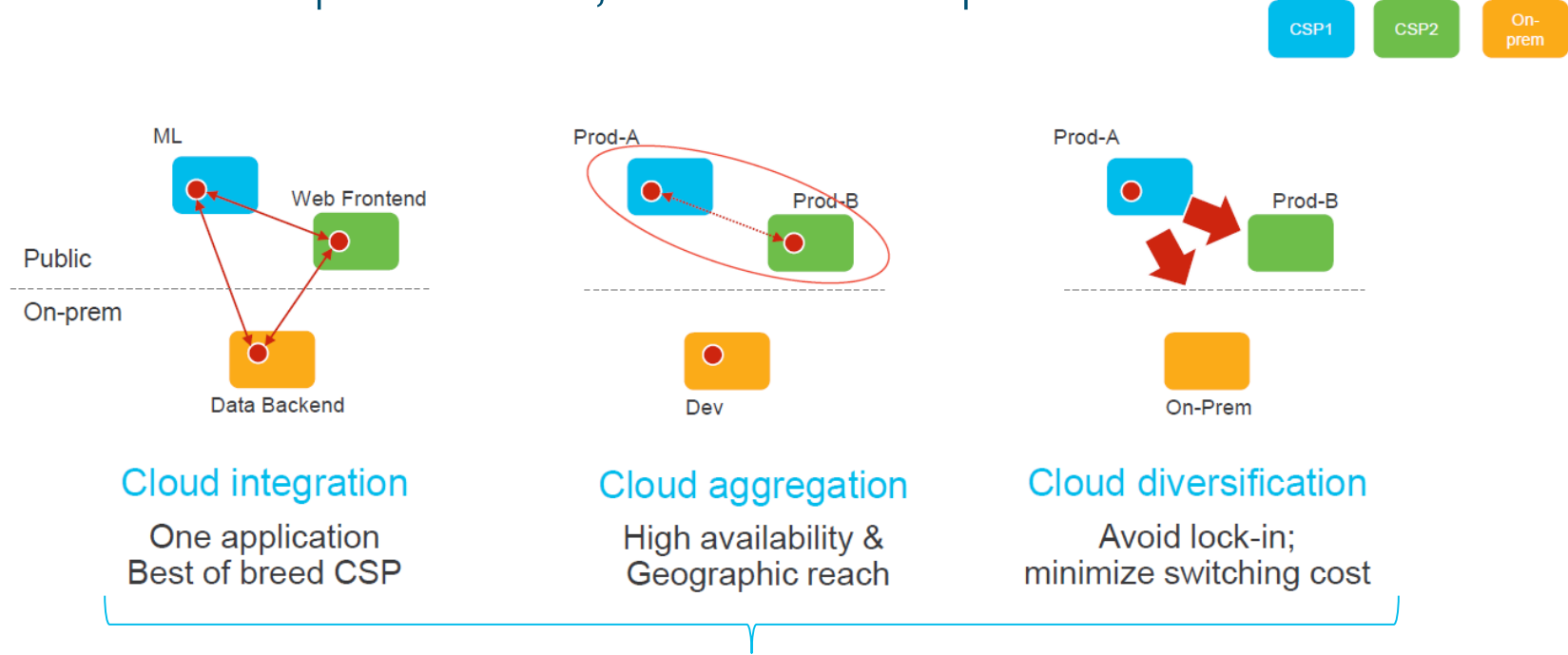
Plan to use  
multiple clouds



Taken steps towards a  
hybrid cloud strategy



# Multicloud...multiple clouds, at least 1 is public



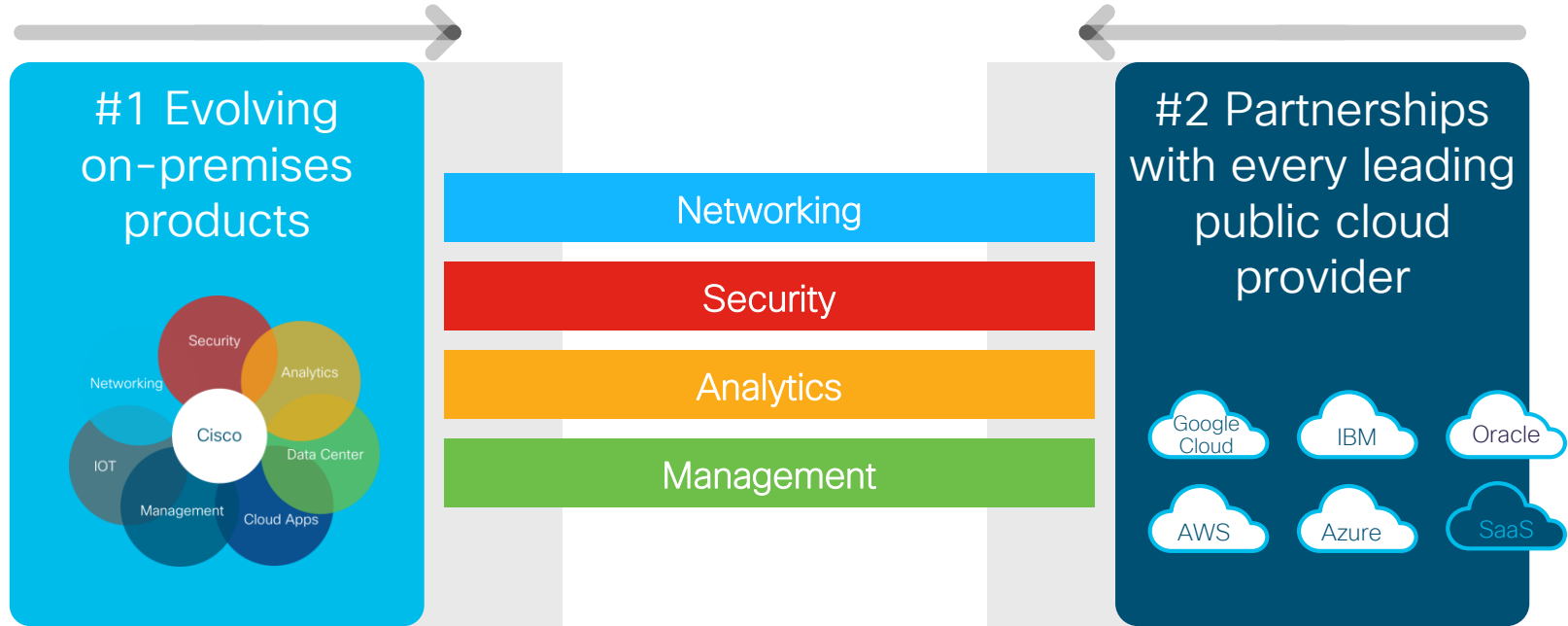
Common capabilities:  
Security, Connectivity, Sourcing, Management & Operations

# Top 3 concerns for co-Existence with Public Cloud



# Powering a multicloud world

Helping you to connect, protect, and consume clouds

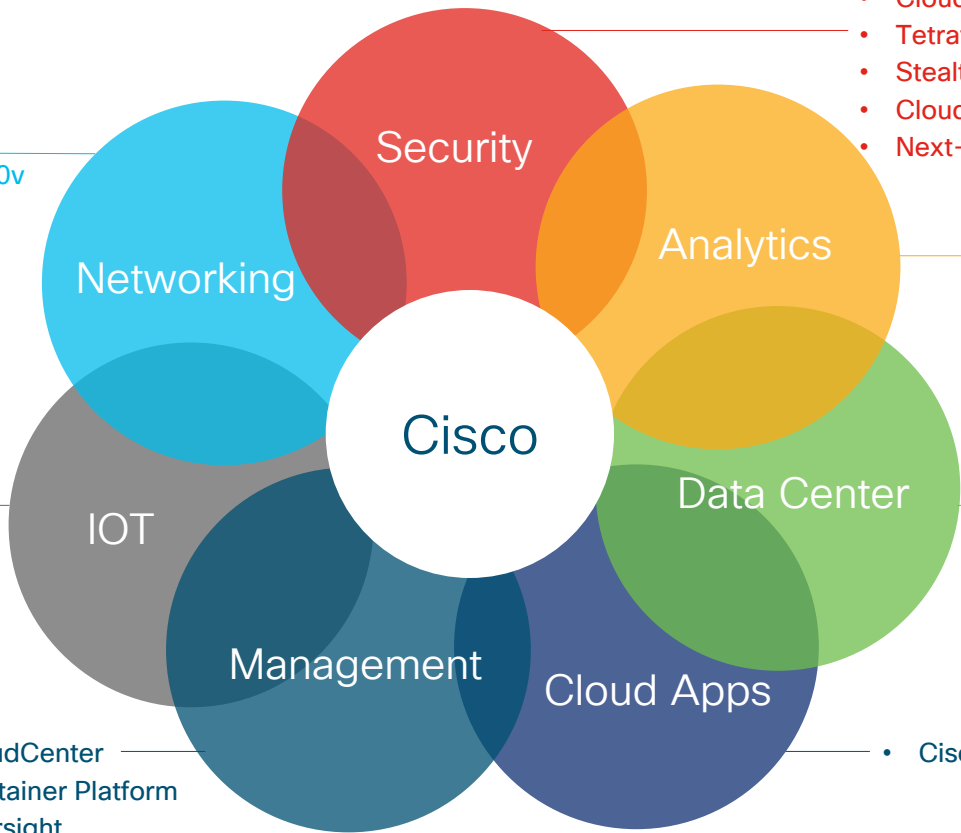


# Cisco Cloud Portfolio

- vEdge
- Meraki vMX
- Cloud Services Router 1000v
- Secure Agile Exchange

- Kinetic

- CloudCenter
- Container Platform
- Intersight



- Duo
- Umbrella
- Cloudlock
- Tetration SaaS
- Stealthwatch Cloud
- Cloud Email Security
- Next-Generation Firewall

- AppDynamics

- Intersight
- Tetration
- Nexus
- ACI
- NAE

- Cisco Webex



# Cisco Multicloud Data Center Summary



Hybrid Cloud  
Application Mobility

CloudCenter  
Tetration | ACI



On-Prem  
Cloud Efficiency

HyperFlex  
Cisco Container Platform



Public Cloud  
w/o Lock-in

ACI Anywhere  
Multicloud Software



# Customer Journey with Cisco DC



Automation



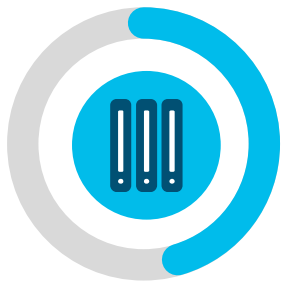
Multicloud



Security

# 76% of the Security Team's Time is Spent on Security in the Data Center

Percentage of Security Team's Time



47%  
Servers



29%  
Customer Data



24%  
Endpoints

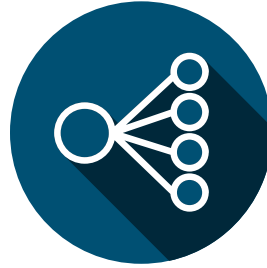
# Cisco Data Center Security Strategy



#1 Visibility

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Stealthwatch |  
Tetration



#2 Segmentation

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ACI | AppDynamics  
Tetration



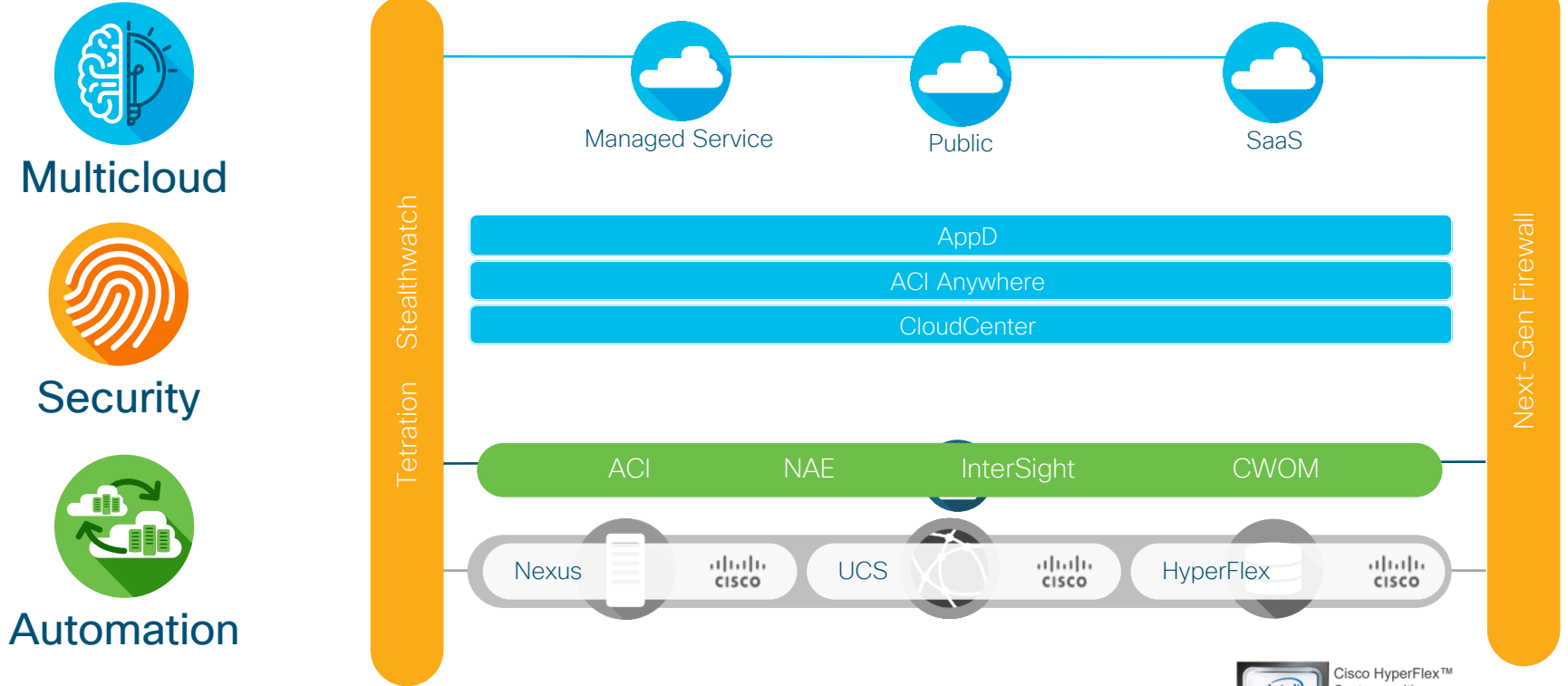
#3 Threat Protection

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Nexus | UCS  
Hyperflex | Tetration



# Cisco Data Center



# Your Multicloud. YOUR way!

Private

IaaS

Colo

SaaS

