Mass Open Cloud (MOC) Support

October 2018 workshop
Agenda

Past

Present

Future
Cisco Multi-cloud Portfolio

Cloud Advisory
Advisory Services
- Cloud Migration
- Cloud Connect
- Cloud Protect
- Cloud Consume

Cloud Connect
- vEdge and Umbrella
- CSR 1000v

Cloud Protect
- Umbrella
- AMP for Endpoints
- Meraki Systems Manager
- Cloudlock
- Tetration Cloud

Cloud Consume
- CloudCenter
- AppDynamics
Past

- Participating member 2016
- Sponsored by Cisco Cloud CTO and CTAO (Research Office)
- Donated equipment (UCS blade servers)
- 3 year commitment on funding
Present

- Renewed commitment 3 year with additional funding
- U.S. Public Sector Research and Education
- Additional hardware (UCS rack servers and N9K w/ ACI)
- Sustainable services (compliant storage, cloud management, workload automation, and cyber platform)
Services

Zadara

- Enterprise quality, resilient, compliant, highly available, consistent performance storage
- Consumed as a Service - flexible, dynamic and billable
- Scale out - grow to hundreds of Storage Nodes, thousands of drives and multi-Petabyte Storage
- True Multi-tenancy - End-user controlled privacy and security.
- Universal Storage - Supports all data services on one common infrastructure: Block, File, Object

Cloud Center

- Enforce multi-cloud governance by guiding user decisions to reduce risk
- Securely automate deployment to reduce manual effort and get consistent results
- Increase feature velocity via integration with developer tools to accelerate time to market
- Optimize cloud consumption to cut pay-per-use cloud costs
Services

Workload Optimization

- Designed for virtualized on-premise and public cloud infrastructures
- Supports multiple hypervisors, containers and cloud platforms
- Delivers elastic infrastructure at scale without disrupting workload performance
- Proactive scaling of resources before performance degradation occurs
- 1, 3, and 5 year subscriptions with per workload (VM) tiered pricing

Cyber range as a service

- Quickly and easily build an exact copy of any IT infrastructure
- Ability to re-use, share, and scale
- Ability to bridge physical and virtual environments
- INCS-CoE Capture the Flag Competition (11/1/2018)
- Members – Keio University, MIT, Harvard, Northeastern, Oxford University, Stanford, etc.
- https://ctf2018.hyperqube.io
Zadara – One Product, One Solution

- Elastic, scalable arrays in the public cloud and on-premises
- Provision as much and as many as you need, only pay for what you use
- All protocols and security included, AES 256 Encryption
- 100% Isolation between users and use cases
- Fully Managed with Backup, snapshots and DR built-in
- SSD Performance, SATA pricing to align with use cases
- HA with 99.999% Availability
- Hardware refreshes for OPaaS (Storage Immortality) with no downtime or added cost
- Competitive Pricing
Universal Storage that **Evolves** with your Business

**One Common Product**

**Any Location**
- Data Center
- Public/Private Cloud
- Hybrid cloud

**Any Data Type**
- Block
- File
- Object

**Any Protocol**
- FC-SCSI, iSCSI, iSER
- NFS, CIFS (AD)
- S3, Swift

**A Complete Storage Solution**
Future

• **AppDyanmics** - managing the performance and availability of applications across cloud computing environments.

• **Tetration** - holistic workload protection for multi-cloud data centers by enabling a zero-trust model using segmentation.

• **Kinetics IoT Platform** - extract, normalize, and securely move data from those devices to distributed applications (i.e., Transportation, Cities, Retail, etc.)
TOMORROW starts here.