# DISA

# DISCLAIMER

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# DISA Cloud Overview

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December 2020

# Elements of Cloud Offerings

**DISA**

## Infrastructure-as-a-Service

### "Foundation"

- Networking
- Storage
- Traditional and Advanced Compute
- Fully Customizable

## Platform-as-a-Service

### "Framework"

- Application Deployment
- Developer Operations
- Common Services
- Somewhat Customizable

## Software-as-a-Service
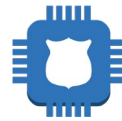
### "Move-in Ready"

- Enterprise Software
- Simple Installation and Configuration
- Flexible Licensing Models
- Limited Customization

# Operational Construct

**The DISA cloud office is strategically organized to support the discovery, adoption, and sustainment of commercial cloud environments across the DOD**

**Fundamental Cloud Characteristics:**

**Security Services**

**Utility Billing**

**Scalable**

**Real-time Elasticity**

**Self Management**

# Cloud Access and Security

**NIPRNet**

**Cyber Command; C2 Operations**

**AWS
Azure
IBM
JEDI
Oracle**

Impact Level 4/5

**Commercial Meet-Me BCAP**

**milCloud** 2.0

**Data Center ICAP**

## 100Gb

Four boundary cloud access points: co-located at commercial meet-me points to maximize performance and scalability

## 10Gb

Two internal cloud access points located at DISA data centers protects DOD networks from on premises hosted commercial clouds

## Cloud Access Points

DISA developed and deployed enterprise cloud access points connect mission partners to approved on and off premises Impact Level 4/5 commercial clouds.

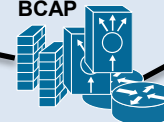**422,838** Total threats blocked/month

**69,100** Brute force access attempts/month

**99.96%** BCAP Uptime / 12 month period

## Application and Managed Services

DISA's enterprise offering includes DOD mandated security services, which protect applications and data hosted in the cloud. Mission partners may obtain these services from DISA or acquire their own.

- Virtual Data Center Security Stack: Protects applications and data hosted in the cloud

- Virtual Data Center Managed Services: Application host security and privileged user access

**TRUST IN DISA: MISSION FIRST, PEOPLE ALWAYS!**

# milCloud 2.0 Capability Overview

**Integrated**

**Scalable**

**Real-time**

**Utility billing:** solely pay for actual usage

**Workload transition:** workloads into and out of commercial IaaS environments

**Accreditation**: based on Cloud Computing Security Requirement Guide (CC SRG) controls for impact level five

**Business management portal:** supports service contracting, billing, metering, and automated provisioning
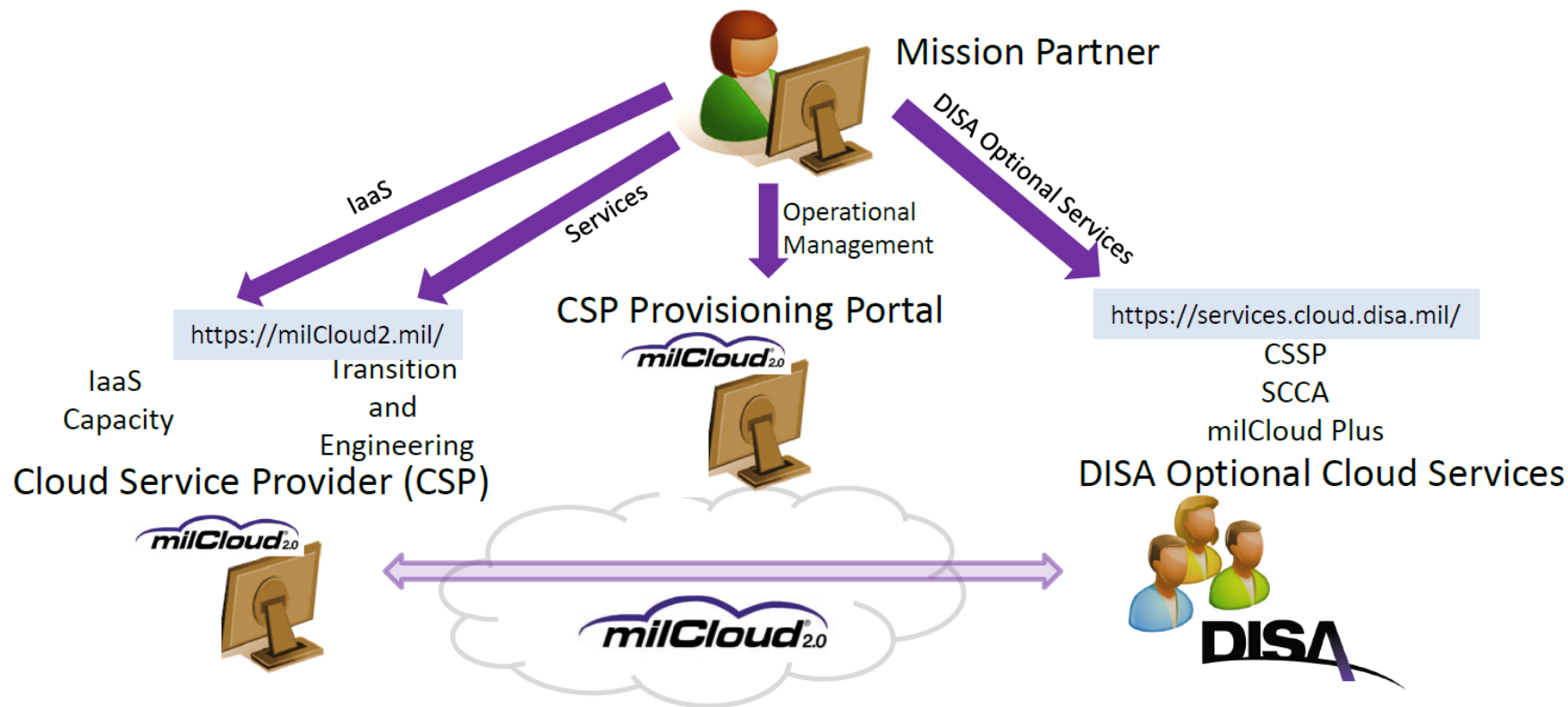
**Cost calculator:** Estimate and forecast the amount of financial commitments for consumer-defined use cases.

**Deployment:** full replication between two DISA data centers

**VPC separation:** Segmented compute for core, management, and customer virtual private clouds

# Online Ordering, Provisioning, and Sustainment

# Lessons Learned

**Establish** dedicated migration teams: assess, select, configure, migrate, and sustain

**Invest**

Dedicated cloud resource allocations and training

License Management

*Carefully review existing licensing agreements and transfer requirements*

Resource Scaling: Elastically Manage Applications

start small... **win early**

Manage realistic migration plans to validated processes and procedures

Performance versus Projections

*Compare legacy systems and hosting to cloud-based environments. Adjust future sustainment and migration projects.*

**Cloud may not = cheaper**

Define your vision and intended outcomes; measure the impact and adjust migrations and sustainment

**Assess and Refine**

Business processes should evolve to support the flexibility and real-time nature of cloud computing

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