

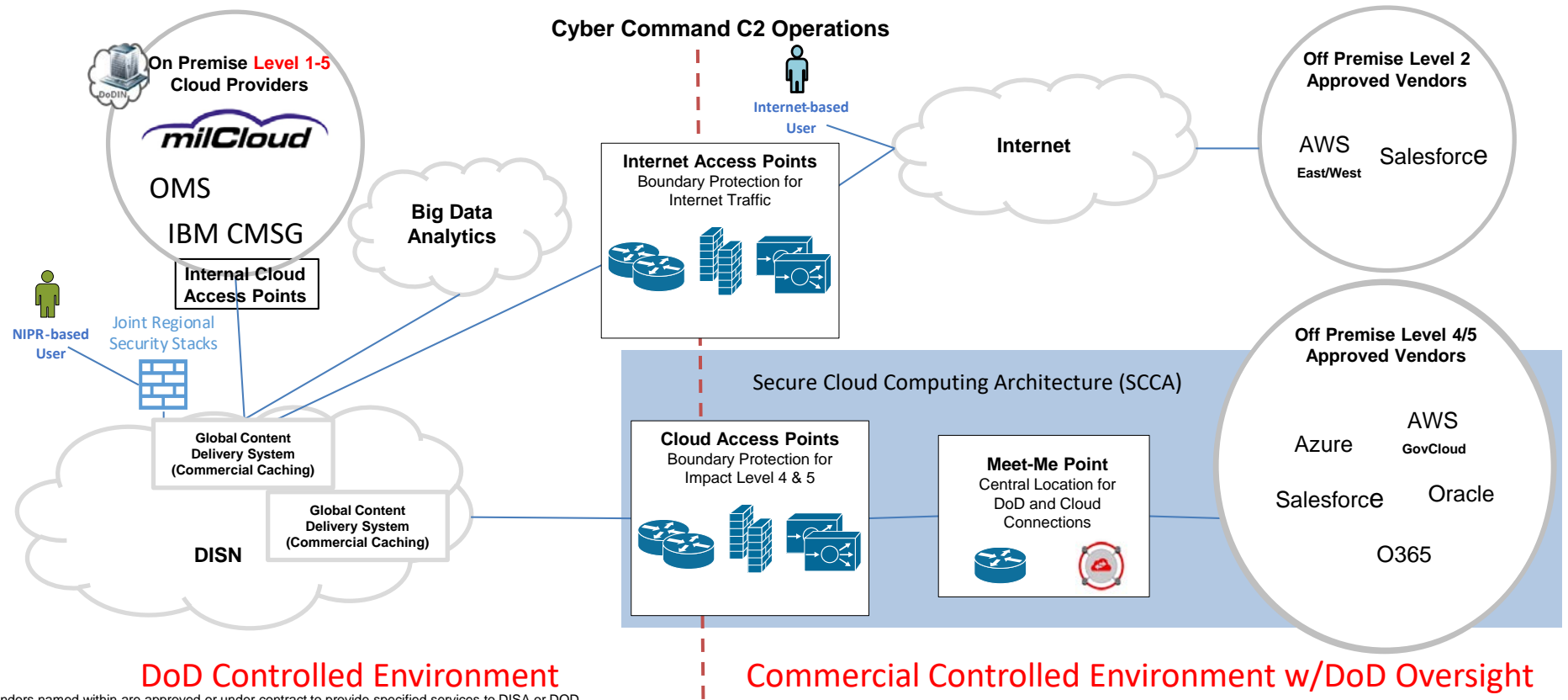


Secure Cloud Computing Architecture (SCCA)

Susan Casson
PM, SCCA
December 12, 2017



Unclassified DoD Commercial Cloud Deployment Approach

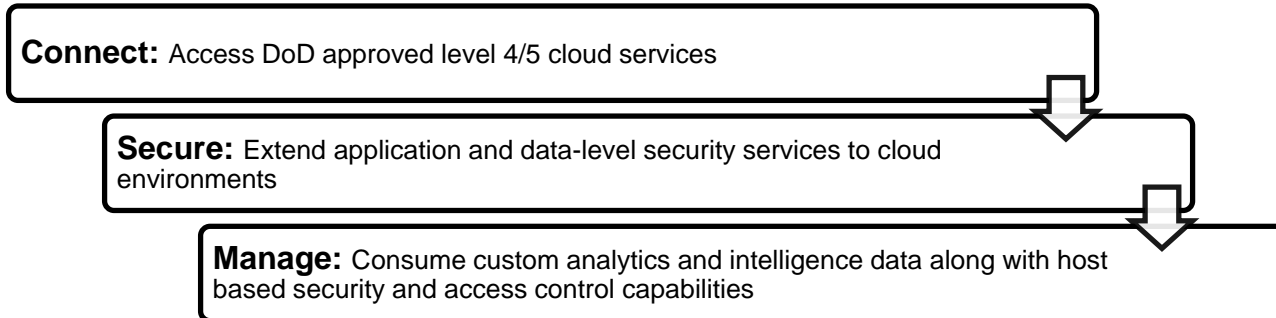


Vendors named within are approved or under contract to provide specified services to DISA or DOD



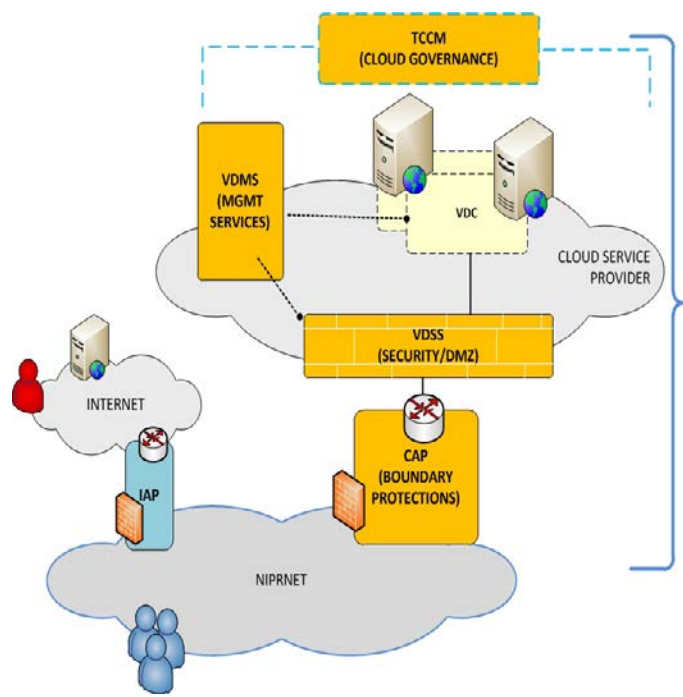
Secure Cloud Computing Architecture (SCCA)

- **Session Objectives**
 - **Define the SCCA portfolio and requirements to obtain services**
 - **Outline how SCCA can enable cloud migration**
 - **Connect attendees with technical and functional DISA experts**
 - **Collect attendee feedback to influence future roadmap priorities**





Capability Overview



- **Cloud Access Points:** Provides connectivity to approved cloud providers, and protects the DISN from cloud originating attacks
- **Virtual Data Center Security Stack:** Virtual Network Enclave Security to protect application and data
- **Virtual Data Center Managed Services:** Application Host Security, including HBSS/ACAS, patching, configuration, and management
- **Trusted Cloud Credential Manager:** Cloud Credential Manager for Role Based Access Control (RBAC) and least privileged access

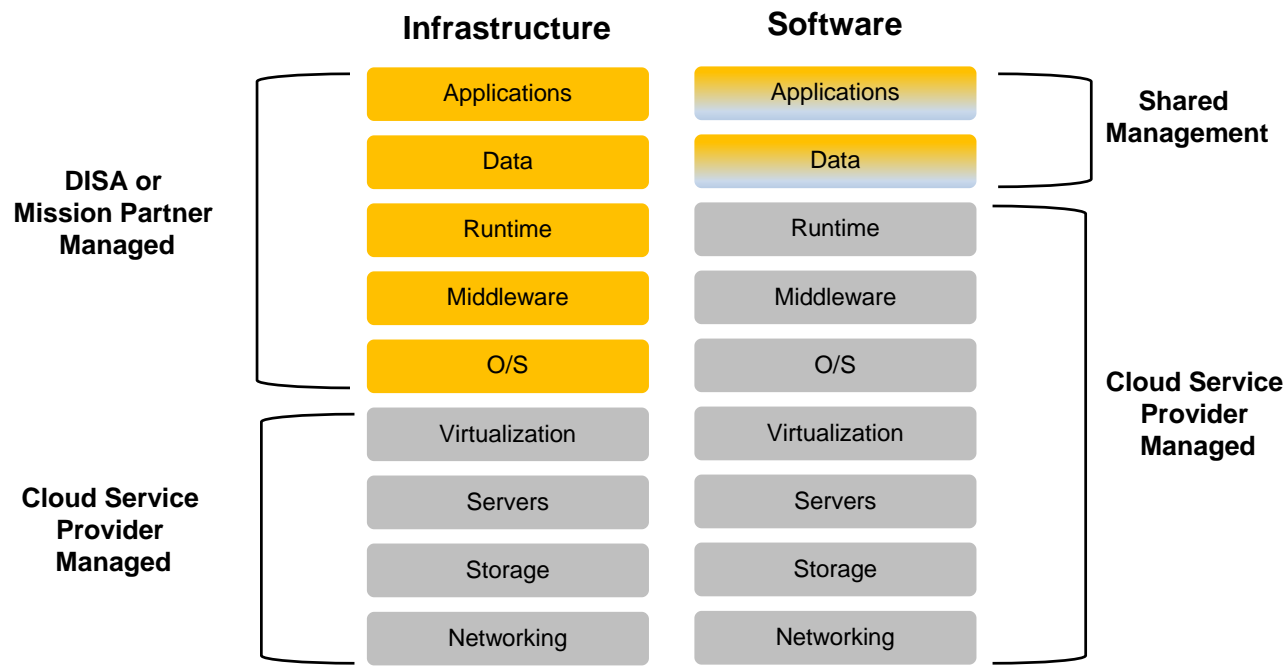
Vendors named within are approved or under contract to provide specified services to DISA or DOD



Cloud Management Roles and Responsibilities

DISA Cloud Connection Approval Onboarding Checklist

- ✓ Approved cloud vendor
- ✓ System Network Approval Process (SNAP) Registration
- ✓ Internet Protocol Registration
- ✓ Cybersecurity Service Provider
- ✓ Authority to Operate



Vendors named within are approved or under contract to provide specified services to DISA or DOD



Cloud Access Points; Accessibility Versus Application Security

- **SCCA Boundary CAP (BCAP)**
 - ✓ Support IaaS and SaaS clouds
 - ✓ Protect DoD Networks from cloud originated attacks
 - ✓ Scale up to 10G capacity per site
 - ✓ Strategically located
 - ✓ Included in DISN subscription rate

- **BCAPs Do Not**
 - Break and inspect
 - Provide application level security



Cloud Security and Managed Services

VDSS

- ✓ Traditional network security features for public facing web applications
- ✓ Next Generation Firewall for protecting cloud hosted workloads
- Web Application Firewall
- Next Generation Firewall

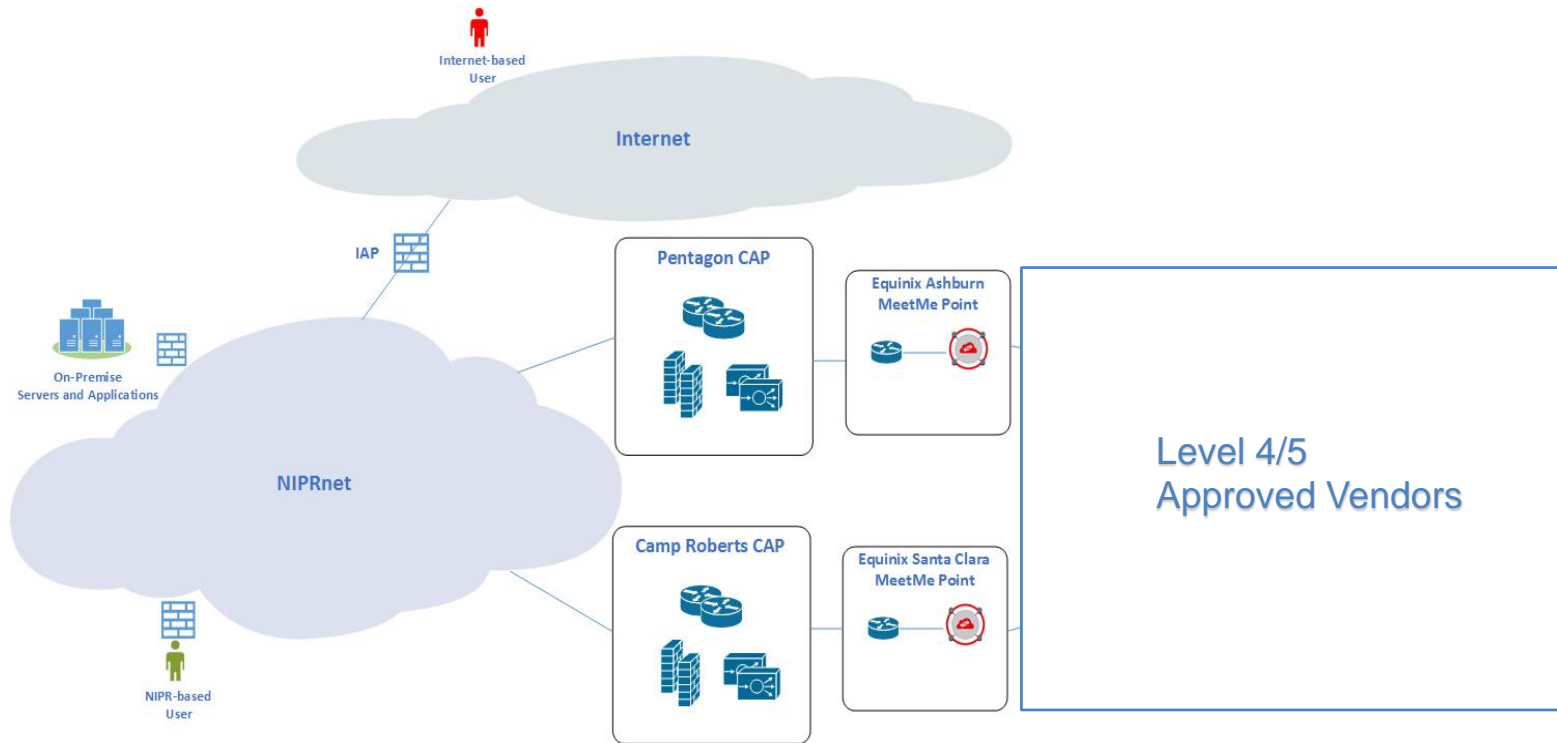
VDMS

- ✓ Cloud connected management and security tools
- ✓ Cloud privileged user access and account management
- ✓ Central search and display of CAP and Cloud logs via Splunk
- HBSS
- ACAS
- Operating System Patching
- Recursive DNS Caching
- Cloud Visibility

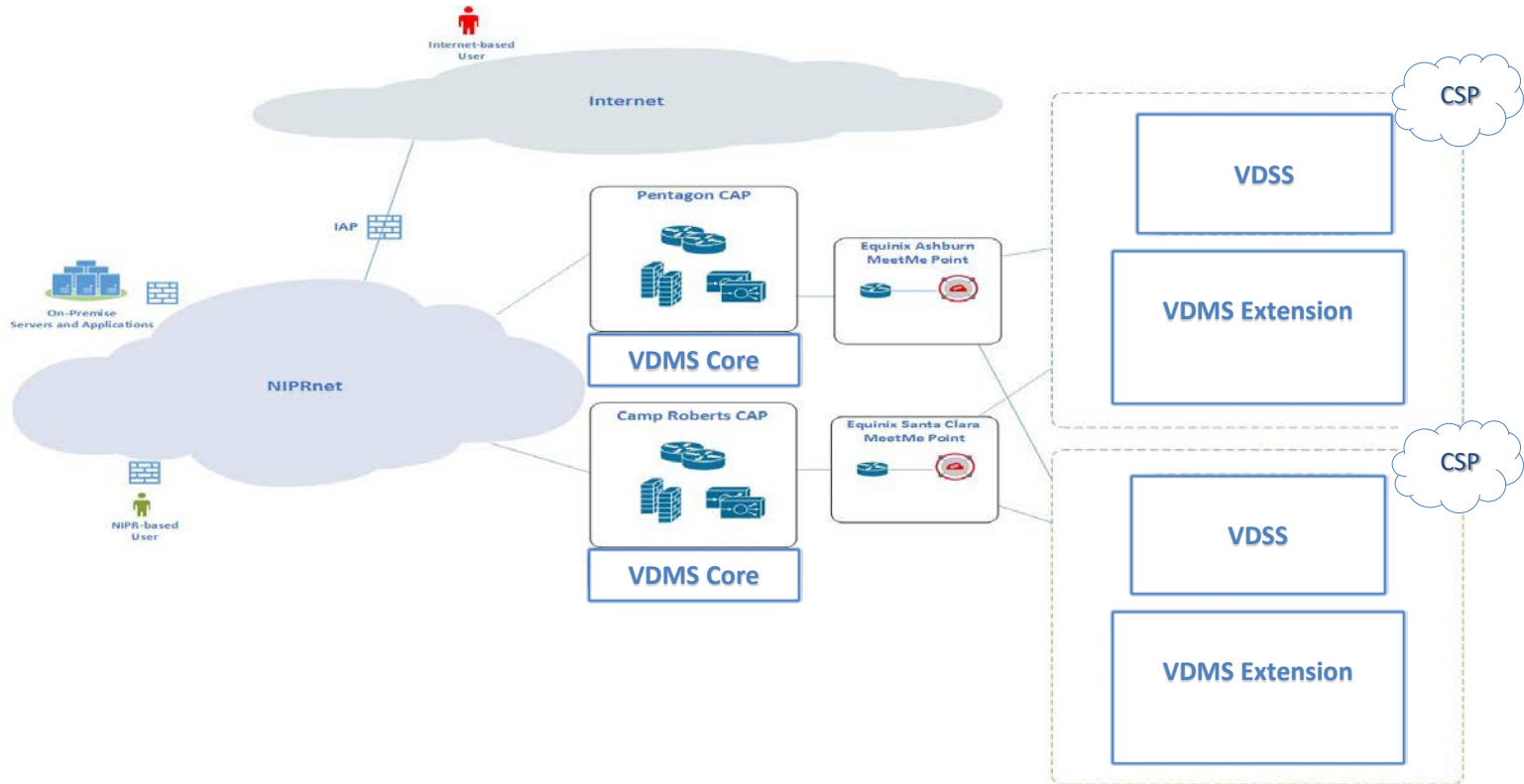
Vendors named within are approved or under contract to provide specified services to DISA or DOD



Boundary CAP (BCAP) 1.0 Overview



Vendors named within are approved or under contract to provide specified services to DISA or DOD

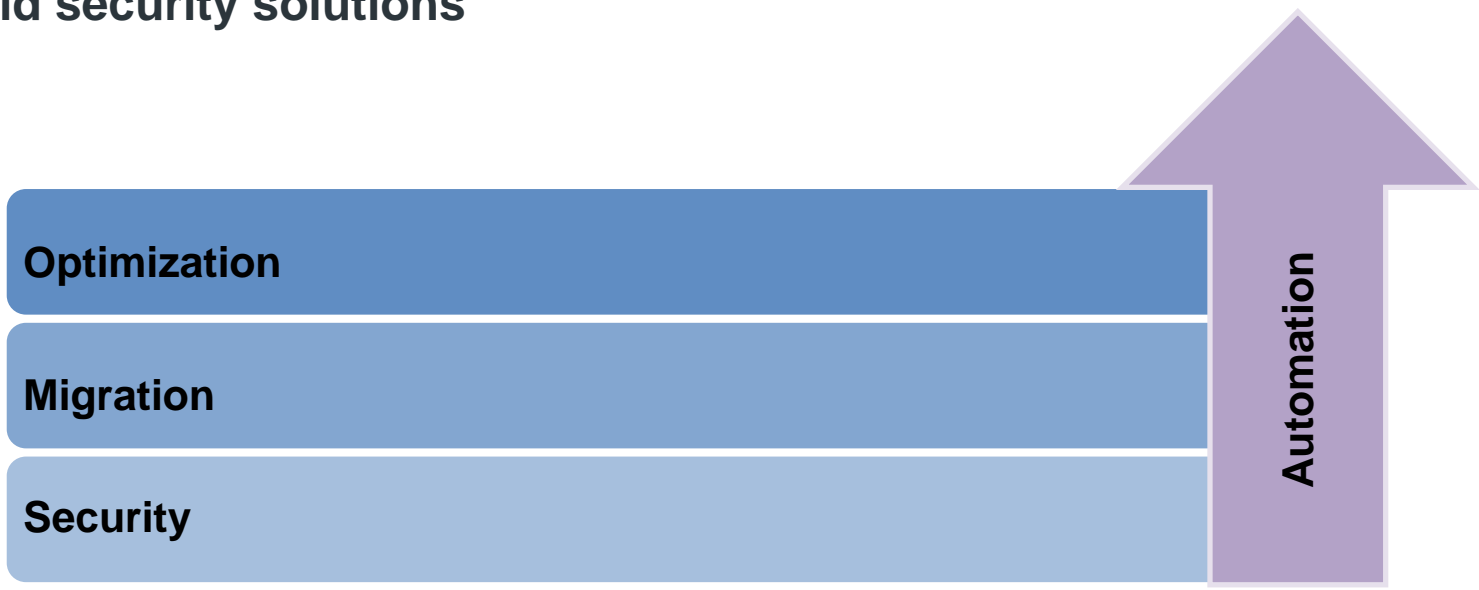


Vendors named within are approved or under contract to provide specified services to DISA or DOD



Our Evolution of Cloud Security Does Not End With SCCA

- **Leaner and faster**
- **Templates, tools, and integration points**
- **Hybrid security solutions**



Vendors named within are approved or under contract to provide specified services to DISA or DOD



DEFENSE INFORMATION SYSTEMS AGENCY
The IT Combat Support Agency

UNITED IN SERVICE TO OUR NATION