PROMETHEUS™
SECURITY GROUP GLOBAL

Solutions

Markets

COMMAND AND CONTROL
C2 - IDS - ACS - Video

ZERO TRUST ARCHITECTURE
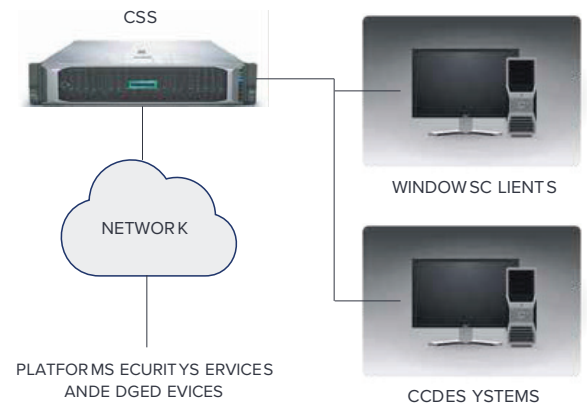Cyber Secure from Sensor to C2

DOD

DOE

CRITICAL INFRASTRUCTURE

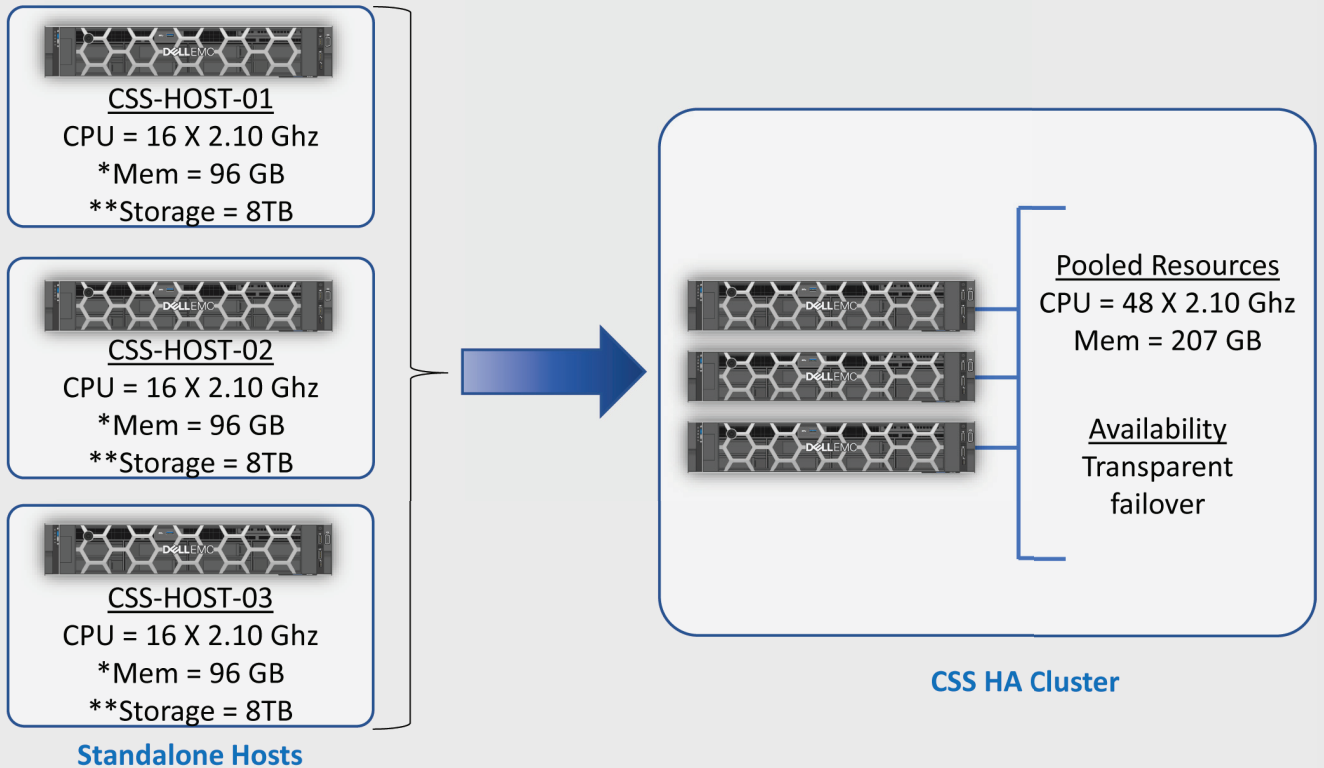# CYBER SECURITY SOLUTION

SAFE | SECURE | RELIABLE

Product Overview

Cyber Security is a rapidly evolving threat and versatility is key to addressing this growing concern. Our Centralized Cyber Security Solution (CSS) provides a hosting platform for IT deployments designed for an integrated suite of tools managing cyber compliance in the local environment. Information Security is a dynamic process and requires a thorough approach to the continuous monitoring and management of evolving threats and vulnerabilities. A holistic and agile approach allows organizations to effectively maintain the confidentiality, integrity, and availability of mission critical information. The system is designed for high-reliability and minimal downtime applications. Options include full redundancy and regionalized hardware configurations for mission critical applications.
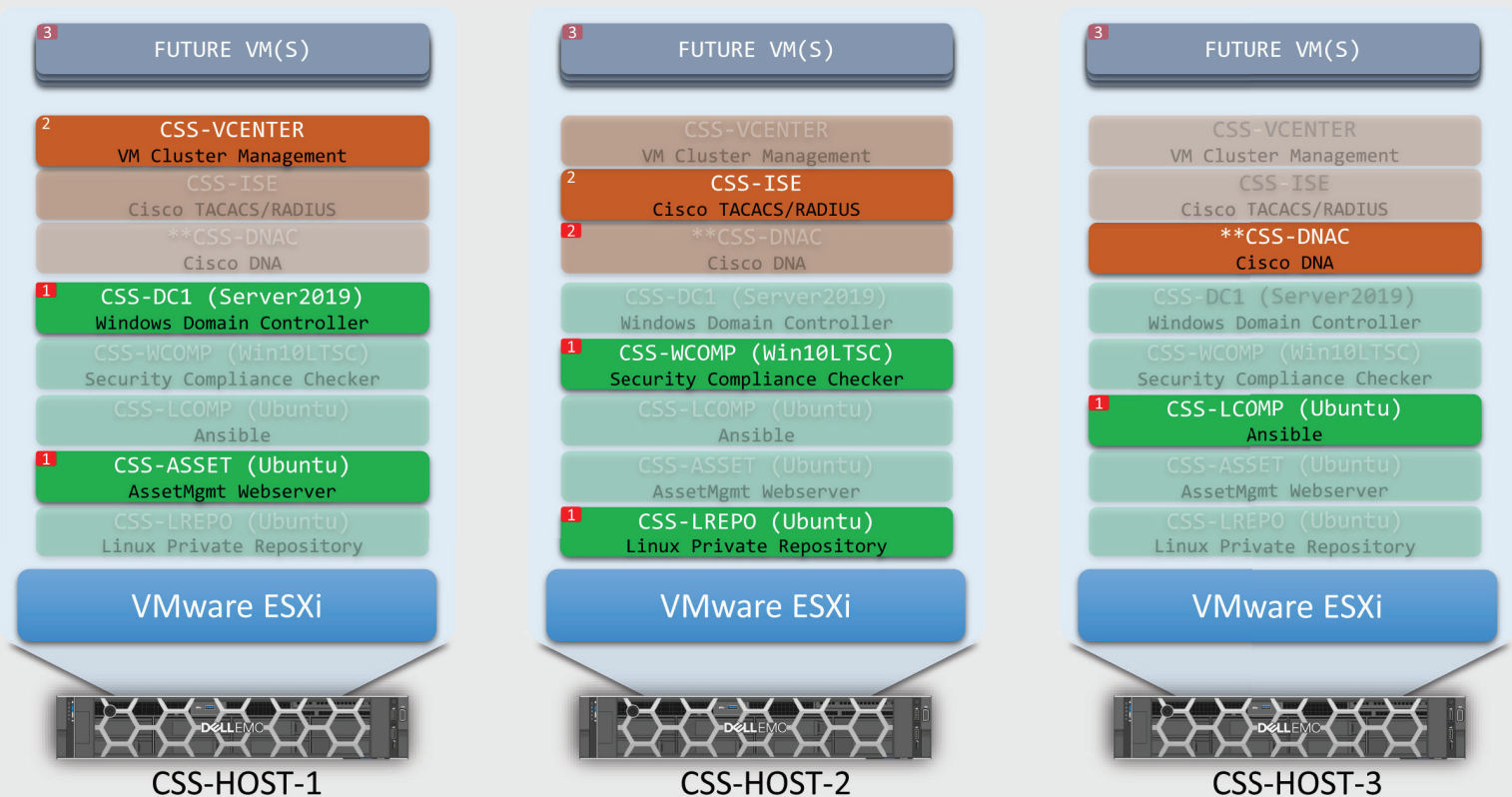
CSS

NETWORK

WINDOWS CLIENTS

PLATFORM SECURITY SERVICES
AND EDGED EVICES

CCDE SYSTEMS

Features	Benefits
CSS Solution	Saves time, money and increases productivity Reduces downtime Provides continuous scanning and updates
Domain Controller	Centralized management (Windows Systems) DISA STIG Implementation via group policy Strong authentication and encryption
Inventory Management	Improved inventory data visibility and reporting Easier auditing Check in/out equipment (new/maintenance)
Linux Compliance System	Centralized management (Linux system) Centralized configuration enforcement and Auditing Ansible configuration management tool
Windows Compliance System	Centralized information assurance compliance Identify gaps in protection Identify areas of insider threat vulnerability
Windows System Update Server	Centralized and controlled updates (Windows Systems) Timely deployment of essential updates Unauthorized update auditing and tracking
Network Configuration and Management	Centralized configuration and monitoring Visual real time network topology Reduces network downtime
System Logging Server	Centralized logging Reduces time-to-resolution Quickly identify non-failure events
Linux Repository System	Centralized and controlled updates (Linux Systems) Centralized deployment of mission critical updates Timely deployment of essential updates

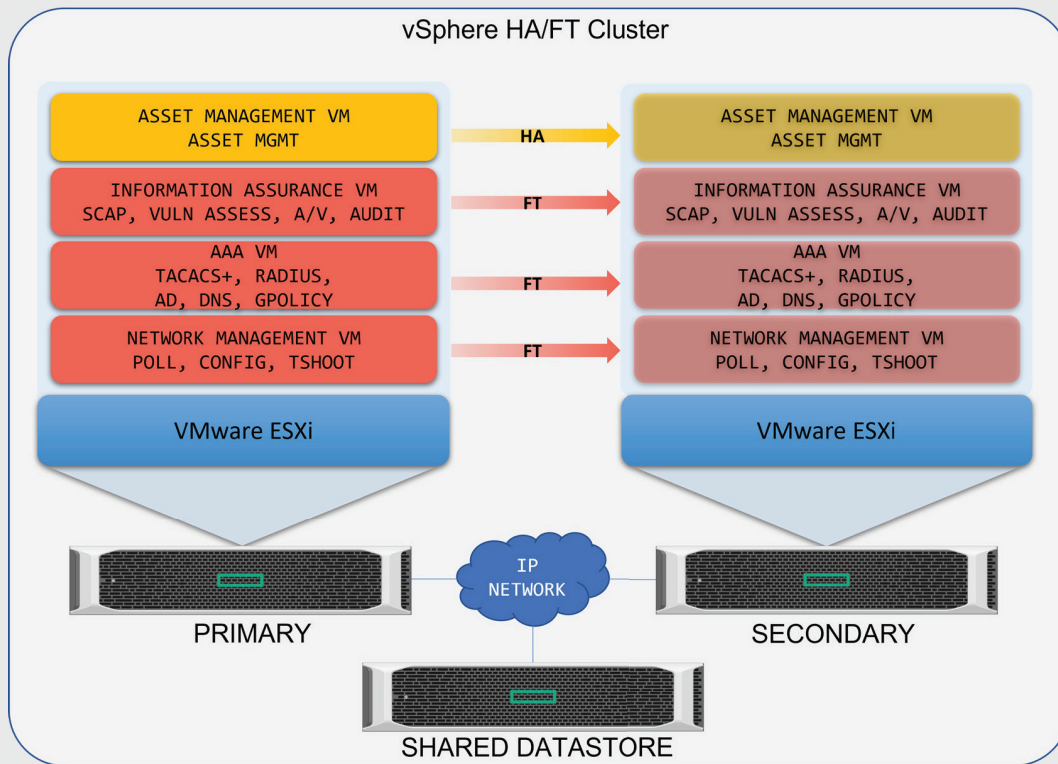# PSG Cyber Security Solution - High Availability Cluster Model *

CSS-HOST-01
CPU = 16 X 2.10 Ghz
*Mem = 96 GB
**Storage = 8TB

CSS-HOST-02
CPU = 16 X 2.10 Ghz
*Mem = 96 GB
**Storage = 8TB

CSS-HOST-03
CPU = 16 X 2.10 Ghz
*Mem = 96 GB
**Storage = 8TB

Standalone Hosts

Pooled Resources
CPU = 48 X 2.10 Ghz
Mem = 207 GB

Availability
Transparent failover

CSS HA Cluster

*   Base model RAM is 96GB. Expandable to 1536GB
** Base model storage = 8TB Raid10. Expandable

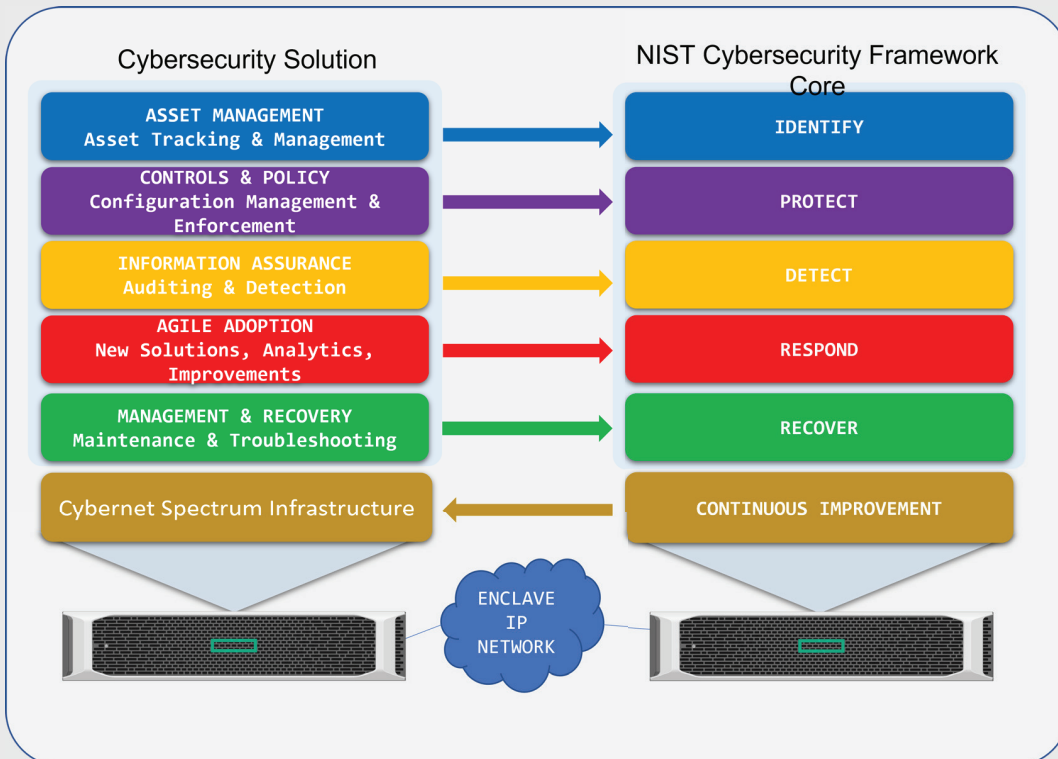| [3] FUTURE VM(S)	[3] FUTURE VM(S)	[3] FUTURE VM(S)
[2] **CSS-VCENTER** VM Cluster Management	CSS-VCENTER VM Cluster Management	CSS-VCENTER VM Cluster Management
CSS-ISE Cisco TACACS/RADIUS	[2] **CSS-ISE** Cisco TACACS/RADIUS	CSS-ISE Cisco TACACS/RADIUS
**CSS-DNAC Cisco DNA	[2] **CSS-DNAC Cisco DNA	[2] **CSS-DNAC** Cisco DNA
[1] **CSS-DC1 (Server2019)** Windows Domain Controller	CSS-DC1 (Server2019) Windows Domain Controller	CSS-DC1 (Server2019) Windows Domain Controller
CSS-WCOMP (Win10LTSC) Security Compliance Checker	[1] **CSS-WCOMP (Win10LTSC)** Security Compliance Checker	CSS-WCOMP (Win10LTSC) Security Compliance Checker
CSS-LCOMP (Ubuntu) Ansible	CSS-LCOMP (Ubuntu) Ansible	[1] **CSS-LCOMP (Ubuntu)** Ansible
[1] **CSS-ASSET (Ubuntu)** AssetMgmt Webserver	CSS-ASSET (Ubuntu) AssetMgmt Webserver	CSS-ASSET (Ubuntu) AssetMgmt Webserver
CSS-LREPO (Ubuntu) Linux Private Repository	[1] **CSS-LREPO (Ubuntu)** Linux Private Repository	CSS-LREPO (Ubuntu) Linux Private Repository
VMware ESXi	**VMware ESXi**	**VMware ESXi**

CSS-HOST-1   **CSS-HOST-2**   **CSS-HOST-3**

* VMs depicted as load balanced. Cluster designed to handle (n-1) host failure.
** If available in VM packaged from Cisco
1. CSS Base VM included
2. CSS Guest VM (optional or customer provided)
3. VM Expansion
Note: Dell servers depicted. HP server option is available

vSphere High Availability (HA)/FaultTolerance (FT) Cluster

vSphere HA/FT Cluster

ASSET MANAGEMENT VM ASSET MGMT		HA →		ASSET MANAGEMENT VM ASSET MGMT
INFORMATION ASSURANCE VM SCAP, VULN ASSESS, A/V, AUDIT		FT →		INFORMATION ASSURANCE VM SCAP, VULN ASSESS, A/V, AUDIT
AAA VM TACACS+, RADIUS, AD, DNS, GPOLICY		FT →		AAA VM TACACS+, RADIUS, AD, DNS, GPOLICY
NETWORK MANAGEMENT VM POLL, CONFIG, TSHOOT		FT →		NETWORK MANAGEMENT VM POLL, CONFIG, TSHOOT

VMware ESXi   **VMware ESXi**

PRIMARY   IP NETWORK   SECONDARY

SHARED DATASTORE

NIST Requirement

Cybersecurity Solution

NIST Cybersecurity Framework Core

Cybersecurity Solution		NIST Cybersecurity Framework Core
ASSET MANAGEMENT Asset Tracking & Management	→	**IDENTIFY**
CONTROLS & POLICY Configuration Management & Enforcement	→	**PROTECT**
INFORMATION ASSURANCE Auditing & Detection	→	**DETECT**
AGILE ADOPTION New Solutions, Analytics, Improvements	→	**RESPOND**
MANAGEMENT & RECOVERY Maintenance & Troubleshooting	→	**RECOVER**
Cybernet Spectrum Infrastructure	←	CONTINUOUS IMPROVEMENT

ENCLAVE IP NETWORK

HARDWARE SPECIFICATIONS

SPECIFICATION	DESCRIPTION	NOTES
Operating System	VMware vSphere Standard, 2 processors	NVMe PCIe3, OS Boot Device
RAID Controller	RAID P408i-a w/ Smart Storage Battery	RAID 0,1,5,6,10
Storage	4- 4TB SAS 12G Midline 7.2K Drives	RAID 10, Virtual Storage, 8LFF chassis
Memory	4- 32GB PC4-3200	128GB RAM
Processor	2- AMD EPYC 7302	Dual Processors, 3.0Ghz/16C
Network	4- 1GbE network interfaces	RJ-45, Optional 10/25GbE dual port available
Power Supply	2- 500W Power Supply	Max: 4A @ 120VAC / 2A @ 240VAC Per Supply
Peripherals	2- 1.83 m (6') 10A US, DVD-RW	U.S. AC Power Cords
Form Factor	2- RU (3.5")	With lockable front bezel & dust cover
Warranty	3-year standard, 5-year optional	Limited
Hardware Part Numbers	Varies[1] 10-80001-000	Cyber Security Solution Bundle, HP
Software Part Numbers	Varies[1]	

PERFORMANCE SPECIFICATIONS

SPECIFICATION	DESCRIPTION
# of Servers	1 rackmount server with 2U footprint. 2 servers + datastore server for redundant HA/FT configuration[1]
# of Virtual Machines	Up to 8 virtual machines can be run concurrently, more can be stored in the hardware with additional HD capacity
# of Hosts	Unlimited
# of Scans	Unlimited
# of Network ports	4- 1GbE, optional 2-SFP+ supporting10/25Gb
# of Expansion Bays	2 – for additional VM storage
Device Management	Integrated HP Lights Out (iLO)
Auditing and Compliance	Provides full auditing support for major server and client operating systems
Active Directory Integration	Yes; with Kerberos security for user authentication
Configuration Interface	Web SSL, SSH CLI, Remote Console Client,
Supported Guest OS	Supports multiple guest OS(Windows, Mac , Linux)

ENVIRONMENTAL SPECIFICATIONS

NOMENCLATURE	TEMPERATURE HUMIDITY & ALTITUDE[2] (NON-OPERATING)	TEMPERATURE & HUMIDITY & ALTITUDE[2] (OPERATING)	ESTIMATE BTU LOAD[3] (PER SERVER)
VICADS Cyber Security Solution	-30°C to 60°C (-22°F to 140°F) 5-95% (non-condensing) 9144 m (30,000 ft)	10°C to 35°C (50°F to 95°F) 8–90% (non-condensing) 3050 m (10,000 ft)	1979 BTU/hr (maximum)

DIMENSIONAL SPECIFICATIONS

NOMENCLATURE	HEIGHT (H)	WIDTH (W)	DEPTH (D)	CLEARANCE (REAR)[6]	WEIGHT[7]
Cyber Security Solution, DL385HP	3.44"	17.54"	28.75"	4"	19.5kg (43lbs)

[1] Requires a shared datastore capability. Contact the factory for design and configuration support.
[2] Altitude deratings against operating temperature are 1.0°C per 305m (1.8°F per 1000ft).
[3] Heat dissipation (BTU/hr) data is based on 120VAC power input and is provided as an estimate for reference only.
[4] Allow an additional 1 RU (1.75") Air Gap between each racked component.
[5] Clearance is a recommended space budget in addition to machine dimensions to allow for cables & routing.
[6] Exact weight depends upon configuration
[+] Specifications are subject to change without notice. PSG is not responsible for customer use of this data.