ADDRESS CYBER THREATS WITH THE RED HAT READY CYBER DEFENSE PLATFORM
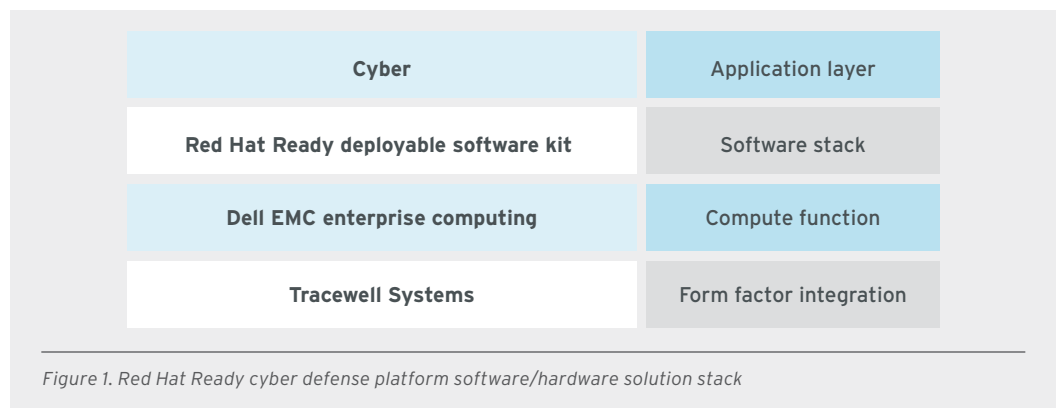
SOLUTION BRIEF

INTRODUCTION

Cyber protection teams require the ability to maneuver through cyberspace environments and react when threats arise. These teams need powerful platforms that can respond quickly and provide capabilities and tools to efficiently isolate, interdict, contain, block, defeat, disrupt, fix, neutralize, recon, or destroy cyberspace threats and vulnerabilities.
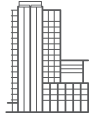
SOLUTION OVERVIEW

The Red Hat Ready cyber defense platform delivers an integrated, tested, and proven Authorization to Operate (ATO) solution to support the cyber mission requirements of a number of U.S. Department of Defense agencies.

The Red Hat Ready cyber defense platform offers mission planners a high-performance, enterprise-class software and hardware computing solution in a flexible "fly-away kit" with trusted Red Hat commercial cloud services (C2S). It features a complete operating system, middleware, Platform-as-a-Service (PaaS), and storage. The platform includes dedicated local storage and high-performance resources needed to enable software-defined computing that can use cloud technologies that are physically integrated with Non-classified Internet Protocol Router Network (NIPRNet), Secret Internet Protocol Router Network (SIPRNet), or C2S, and are designed to operate in a wide range of high-, medium-, and low-risk environments.

The Red Hat Ready cyber defense platform features datacenter-proven, high-performance compute technology from Dell EMC in a portable form factor adapted by Tracewell Systems. With Dell EMC enterprise technology at its core, the platform makes it possible for defense agencies to standardize on one powerful, common hardware and software stack across their datacenters, garrisons, and tactical environments.

Cyber	Application layer
Red Hat Ready deployable software kit	Software stack
Dell EMC enterprise computing	Compute function
Tracewell Systems	Form factor integration

Figure 1. Red Hat Ready cyber defense platform software/hardware solution stack

The Red Hat Ready cyber defense platform deployable software kit features SELinux, user self-service, container platform, software-defined storage and networking, hybrid cloud infrastructure, and automation.

CYBER STACK

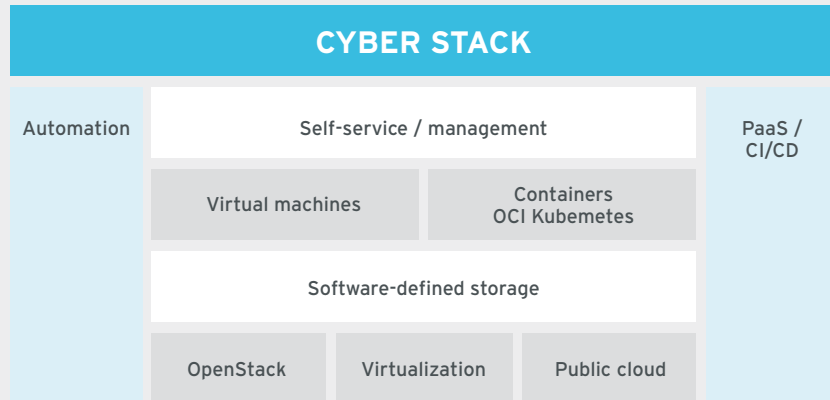| Automation	Self-service / management		PaaS / CI/CD
	Virtual machines	Containers OCI Kubemetes	
	Software-defined storage		
	OpenStack	Virtualization	Public cloud

Figure 2. Red Hat Ready cyber defense platform deployable software kit

The Red Hat Ready cyber defense platform deployable hardware kit is based on Tracewell Systems T-FX2he, a high-performance, enterprise-class computing platform engineered in partnership with Dell EMC and optimized for users that need datacenter computer power in a compact form factor to support mission-critical computing with maximum portability.

Figure 3. Red Hat Ready cyber defense platform deployable hardware kit

FEATURES AND CAPABILITIES

- Delivers converged and hyperconverged computing in a system that is only 9.2 inches wide and 24.5 inches from front to back

- Is electrically identical and fully interoperable with standard Dell EMC technology

- Has a flexible design that supports multiple configuration options featuring the Dell EMC PowerEdge FC430 and FC630 and offers the ability to add up to eight 2.5-inch storage drives for each system

- Can be customized to meet specific field-mission and program requirements or integrate with critical third-party technologies