



# VMware Cloud Foundation SDDC Manager STIG Readiness Guide Overview

4.x Release 4

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## Overview

VMware is a trusted partner in highly secure, mission critical systems around the world, including the US Department of Defense (DoD). In the DoD, all IT systems must adhere to the rigorous Risk Management Framework (RMF) as defined in DoDI 8510.01. A critical component of RMF is the mandatory implementation of Security Technical Implementation Guides (STIGs) and Security Requirements Guidelines (SRGs) as maintained by the Defense Information Systems Agency (DISA). Where a product specific STIG is not available, the relevant SRGs must be used instead.

### DoDI 8510.01

*“STIGs are product-specific and document applicable DoD policies and security requirements, as well as best practices and configuration guidelines. STIGs are associated with security controls through CCLs, which are decompositions of NIST SP 800-53 security controls into single, actionable, measurable items. SRGs are developed by DISA to provide general security compliance guidelines and serve as source guidance documents for STIGs. When a STIG is not available for a product, an SRG may be used.”*

To better serve the needs of our DoD partners, and those who wish to meet the bar set by the DoD, VMware is providing SRG content that is the source material for an existing STIG, the basis for a future or in-process STIG, or that can be used in the absence of a DISA published STIG.

### What does STIG Readiness mean?

VMware has published several STIGs with DISA and as such, we are very familiar with the SRGs and what it takes to meet DISA's stringent requirements for risk acceptance and publication. “STIG Readiness” means that we are doing the same level of work as we would do with DISA but self-publishing the content to make it available and usable as soon as possible. The quality is high enough, in our experience, that should a given “STIG Ready” product be put through the DISA process, we are confident that there would be minimal content changes before publication.

This project represents VMware's effort to document our compliance against the SRG requirements and nothing more. A published STIG is our eventual goal, in most cases, but this content should not be viewed to be “as good as a STIG”. A DISA published STIG includes technical validation, review of requirement fulfillment, accuracy and style, risk acceptance and is digitally signed by the RME and posted on cyber.mil. Except for products that already have published STIGs, there is no explicit or implied DISA approval of the provided content. We also make no guarantee that any STIG(s) will be published from this content in the future.

## Support

**This guidance is intended for VCF 4.5 and greater. Application of this guidance prior to 4.5 is not recommended.**

As previously stated, this content is produced by VMware without any DISA ownership. As such, any technical issues must go through your usual VMware support channels and not DISA.

### Other Considerations

It must be noted that the configuration settings specified should be evaluated in a local, representative test environment before implementation in a production environment, especially within large user populations. The extensive variety of environments makes it impossible to test these configuration settings for all potential software configurations as such ensure all steps are taken to back systems up before implementation.

For some production environments, failure to test before implementation may lead to a loss of required functionality. Evaluating the risks and benefits to a system's particular circumstances and requirements is the system owner's responsibility. Furthermore, VMware implies no warranty that the application of all specified configurations will make a system 100 percent secure.

Security guidance is intended for the Department of Defense. While other agencies and organizations are free to use it, care must be given to ensure that all applicable security guidance is applied both at the device hardening level as well as the architectural level because some of the settings may not be able to be configured in environments outside the DoD architecture.

## Product Summary

SDDC Manager automates the entire system lifecycle (from configuration and provisioning to upgrades and patching) and simplifies day-to-day management and operations.

The SDDC Manager appliance contains several components in addition to the operating system that are covered:

- SDDC Manager Application
- SDDC Manager Appliance
  - Common Services Service
  - Domain Manager Service
  - Lifecycle Manager Service
  - Nginx Reverse Proxy
  - Operations Manager Service
  - Photon OS
  - PostgreSQL Database
  - SOS Utility
  - UI Service

## Content Scope

The content available in this guide was intended for VCF version 4.5+.

## Frequently Asked Questions

### What do the severity codes mean?

As stated in the DISA Security Requirements Guides:

Severity Category Codes (referred to as CAT) are a measure of vulnerabilities used to assess a facility or system security posture. Each security policy specified in this document is assigned a Severity Category Code of CAT I, II, or III.

DISA Category Code Guidelines	
CAT I	Any vulnerability, the exploitation of which will <b>directly and immediately</b> result in loss of Confidentiality, Availability, or Integrity.
CAT II	Any vulnerability, the exploitation of which <b>has a potential</b> to result in loss of Confidentiality, Availability, or Integrity.
CAT III	Any vulnerability, the existence of which <b>degrades measures</b> to protect against loss of Confidentiality, Availability, or Integrity.

Most of the severity codes in the associated guides are CAT IIs. During STIG development DISA modifies severity codes on a per product and context specific basis.

### What is an Extensible Configuration Checklist Description Format (XCCDF) file?

As stated by NIST: “XCCDF is a specification language for writing security checklists, benchmarks, and related kinds of documents. An XCCDF document represents a structured collection of security configuration rules for some set of target systems. The specification is designed to support information interchange, document generation, organizational and situational tailoring, automated compliance testing, and compliance scoring. The specification also defines a data model and format for storing results of benchmark compliance testing. The intent of XCCDF is to provide a uniform foundation for expression of security checklists, benchmarks, and other configuration guidance, and thereby foster more widespread application of good security practices.”

### How do I view this guidance?

DISA STIGs are typically viewed with the STIG Viewer tool. This tool is made available by DISA and can be downloaded from: <https://public.cyber.mil/stigs/srg-stig-tools/>

### Are there any scripts or tools to help audit and remediate these controls?

Yes, there are example scripts and playbooks to aid in these tasks available in the GitHub repo linked below. Please carefully examine and test before running these in a production environment.

<https://github.com/vmware/dod-compliance-and-automation/>

### What requirements were considered when developing this content?

All technical NIST SP 800-53 requirements and applicable SRGs were considered while developing this content. Requirements that are applicable and configurable will be included in the final content.

