

APRIL
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SECURITY CONFIGURATION ASSESSMENT OF INFORMATION SYSTEMS

JOB AID

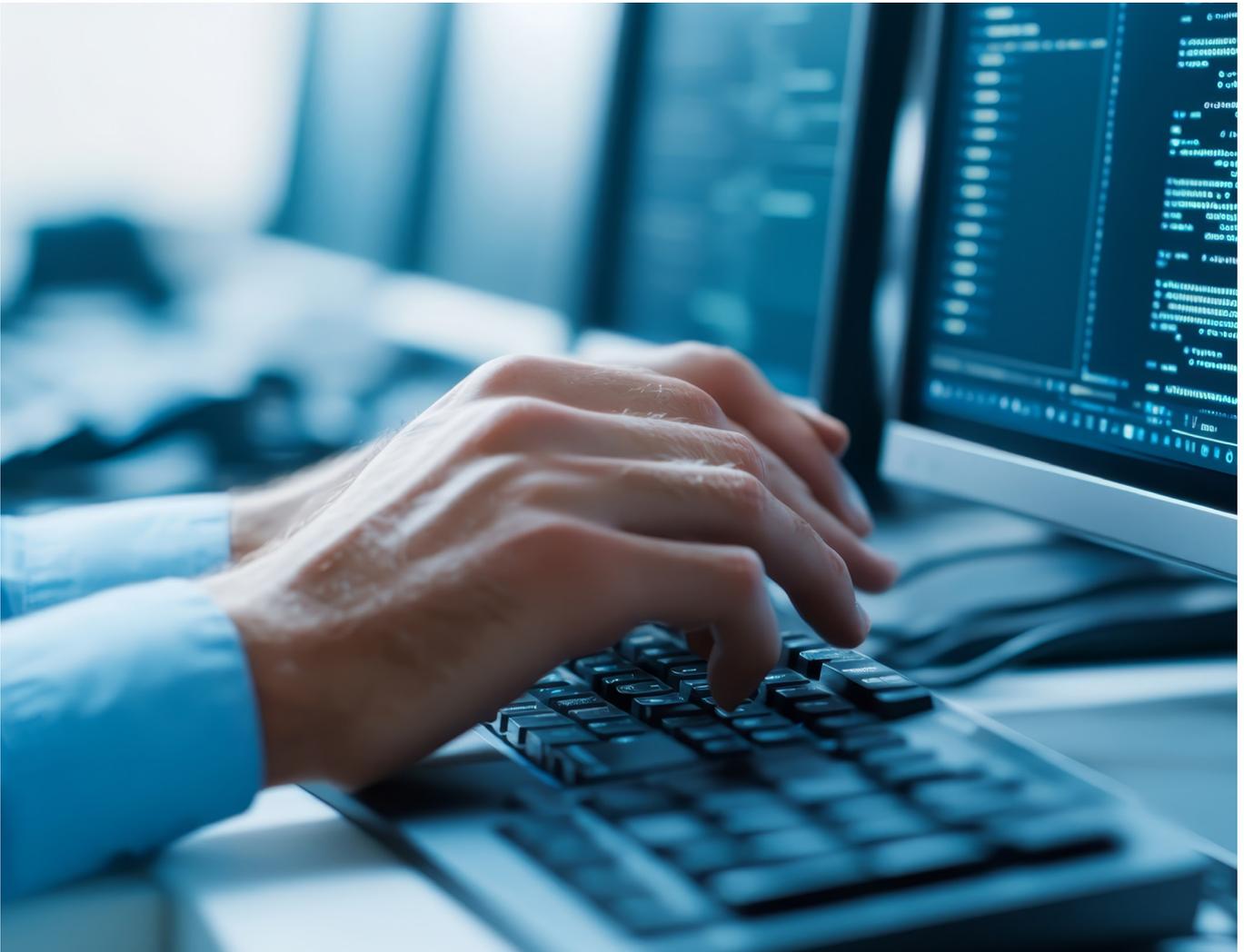
CDSE Center for Development
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USING THIS JOB AID

This job aid provides an overview of the process for assessing the technical security controls and system configuration of contractor information systems (IS) using the Defense Information System Agency (DISA) vulnerability scanning protocols in accordance with the National Industrial Security Program (NISP).

The steps the Information System Security Professional (ISSP), Information System Security Officer (ISSO), or Information System Security Manager (ISSM), if applicable, must follow are:

1. Gather documentation
2. Install tools and scan system
 - Security Content Automation Protocol (SCAP)
 - Security Technical Implementation Guide (STIG) Viewer
3. Conduct assessment of vulnerabilities
 - If:
 - ISSO or ISSM: Fix vulnerabilities
 - ISSP: Annotate findings.



GATHER SYSTEM DOCUMENTATION

This section provides a list of the types of documentation the ISSM/ISSO/ISSP must review to facilitate the assessment. This list is not exhaustive, and not all documents listed may apply to the assessment.

Refer to the Office of the Authorizing Official for more information; see the Technical Assessment Guide specific to the operating system in use.

- Authorization Letter, if performing a Security Vulnerability Assessment (SVA)
- Authorized Users List and Signed User Briefings
- Audit Variance / Hibernation Procedures, if applicable
- DD Form 254, Department of Defense Contract Security Classification Specification
- DSS Form 147, Record of Controlled Area
- Hardware and Software Baselines
- Information System Profile (IS Profile)
- Maintenance Logs
- Manual Audit Log
- Master System Security Plan (MSSP) or System Security Plan (SSP)
- Memorandum of Understanding (MOU) / Industrial Security Agreement (ISA), if applicable
- Removable Media Creation Log
- Sanitization Procedures, if applicable
- System Diagram and/or Network Topology, if applicable
- Threat Data (to determine current threat picture)
- Trusted Download Procedures, Briefings, and Logs



INSTALL TOOLS AND SCAN SYSTEM

This section provides a brief description of the tools that must be downloaded to scan information systems for vulnerabilities. [Open example screens](#) showing how to use the SCAP tool to scan.

TOOL	DESCRIPTION
<p>Security Content Automation Protocol (SCAP) Compliance Checker</p>	<p>An automated vulnerability scanning tool that leverages the Defense Information Systems Agency (DISA), Security Technical Implementation Guides (STIGs), and operating system(OS) specific baselines to analyze and report on the security configuration of an information system.</p> <p>Can be obtained in two ways, depending upon the possession of a DoD PKI token:</p> <p>PKI Enabled: http://iase.disa.mil/stigs/scap/Pages/index.asp Non-PKI Enabled: http://MAX.gov</p> <p>PDF file containing installation instructions is included within the ZIP file for each Operating System version of the SCAP Compliance Checker.</p>
<p>DISA Security Technical Implementation Guidelines (STIGs) Viewer</p>	<p>A Java-based application used in conjunction with the SCAP Compliance Checker scans results in order to view the compliance status of the system's security settings.</p> <ul style="list-style-type: none"> • Unclassified and non-PKI controlled • Access and download at: http://iase.disa.mil/stigs/Pages/stig-viewing-guidance.aspx <p>Requires no installation and runs as a JAVA applet</p>
<p>Operating System (OS) Baselines</p>	<p>The STIG Viewer leverages operating system baselines to generate checklists used for vulnerability assessments.</p> <ul style="list-style-type: none"> • Version specific; non-PKI controlled • Access and download at: http://iase.disa.mil/stigs/os/Pages/index.aspx

CONDUCT ASSESSMENT ON VULNERABILITIES

This section provides the high level steps the ISSM/ISSO/ISSP must follow upon completion of the vulnerability scan to assess the vulnerabilities in the security configuration of a system. [Open example screens](#) showing how to use the STIG Viewer.

1. Open the STIG Viewer and import the appropriate STIG baseline
2. Create a checklist from the drop down menu "Checklist" in your STIG Viewer using relevant STIG benchmarks
3. Import .XCCDF file and sort by Vulnerability IDs
4. Compare the control ID's on the report to the SSP and other documentation listed above to determine which control ID's are "required" and which are "tailored out"
 - Mark the "tailored out" controls as "NA" in the report
5. Examine the "required" control ID's in the report to see if any vulnerabilities exist. For each vulnerability you find:
 - If you are the ISSM or ISSO, fix the vulnerability
 - If you are the ISSP, work with the Facility Security Officer (FSO) and Industrial Security Representative (IS Rep) to determine if mitigating factors are effective based on risk and the specific threat to that network and mark the vulnerability as a "finding" in the report
 - If acceptable mitigating factors are in place, mark the vulnerability with an "M" (for Open Vulnerability, Mitigated/Compliant) in the report
 - If acceptable mitigating factors are NOT in place, mark the vulnerability with an "O" (for Open Vulnerability, Not Mitigated; Non-Compliant) in the report

Note: CAT levels are not tracked under the Risk Management Framework (RMF) but can be helpful in determining which are more critical for resource allocation and therefore mitigation priority (i.e., CAT I before CAT III).

6. Prepare report brief in accordance with agency or organizational processes.

