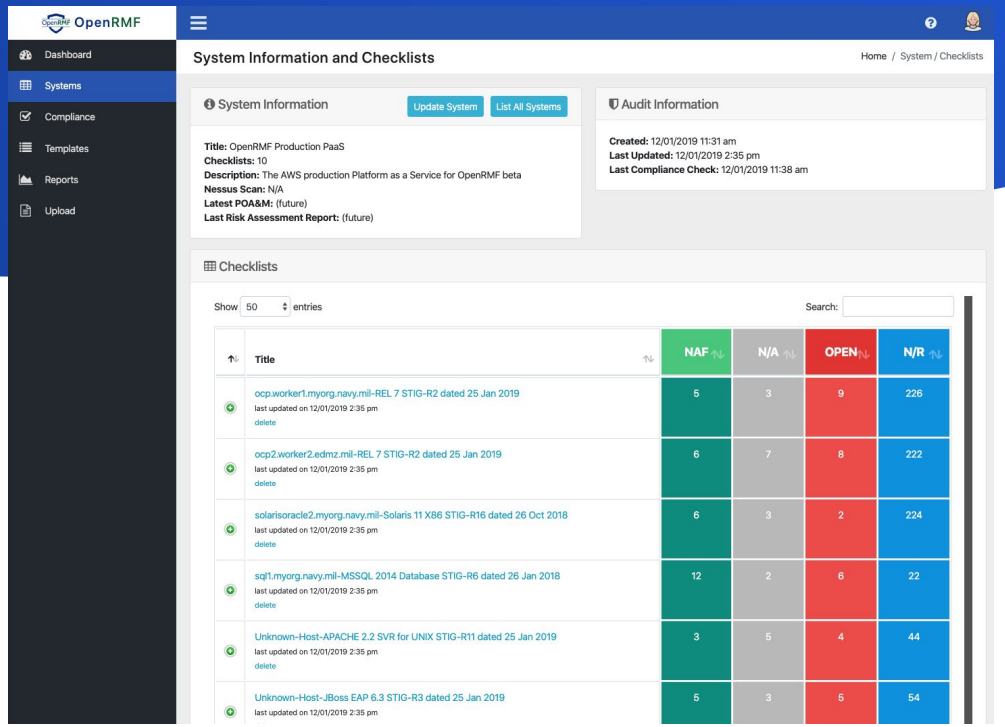
OpenRMF - Innovation and Automation for DISA STIGs and NIST Controls

https://www.openrmf.io

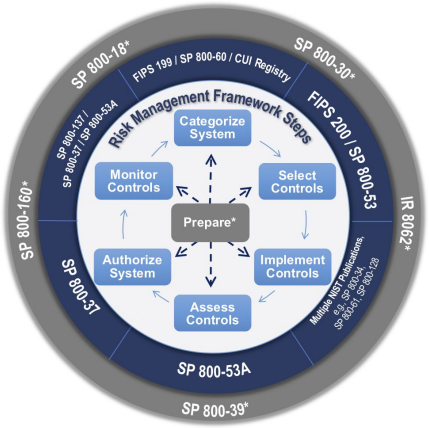
The only open source tool to help you manage your DISA STIGs, NIST Controls, and correlate them automatically!

- Upload Checklists (XML or XCCDF SCAP)
- Run Compliance Reports
- Filter on Open Items remaining
- Manage Checklists by System



Current Challenges Implementing RMF

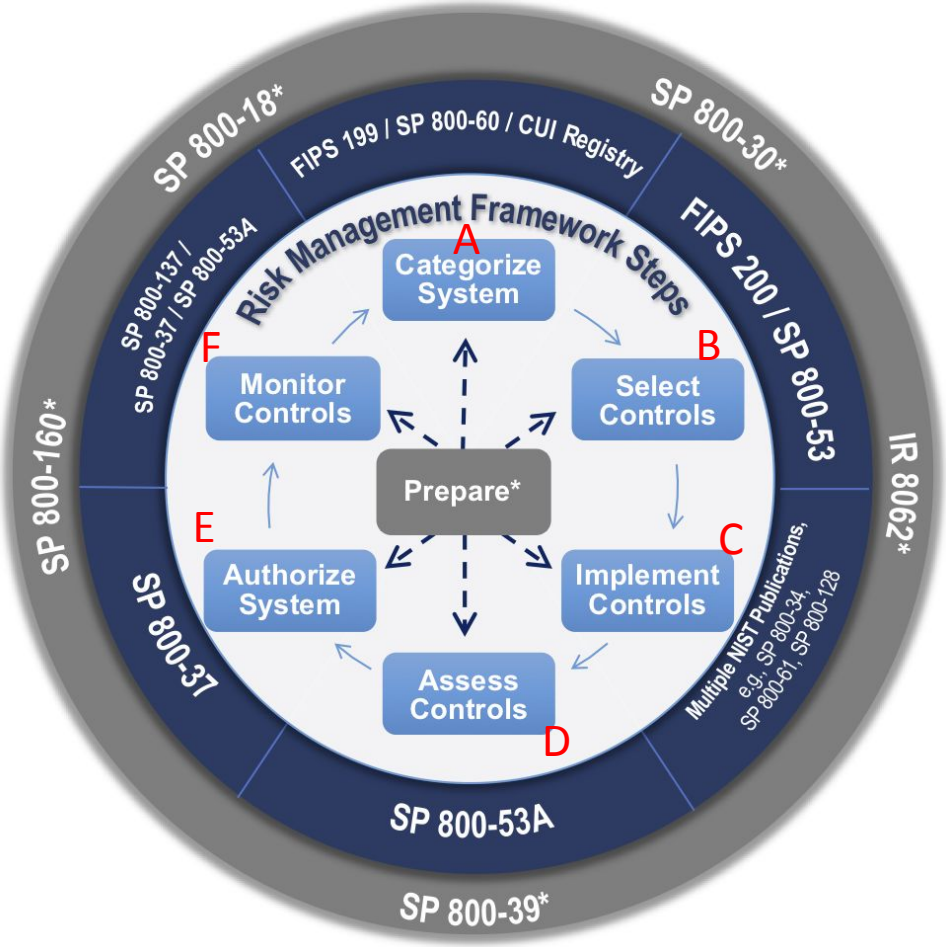
- Slow process driven by disparate systems
- Compliance with STIGs means checklists are numerous and not related directly to NIST control families
- Information shared via Email, DISA STIG Viewer, Excel, and shared folders – no single source of truth
- Limited management oversight into the IA status and security posture
- Must install Java to use the DISA STIG viewer
- IT Teams must manage the checklists manually
- Checklists are managed manually, one at a time
- Leadership sees Cybersecurity as “black magic” and “too hard”
- Leadership does not see value in Cybersecurity – only hardship
- No correlation of errors and deltas across checklists



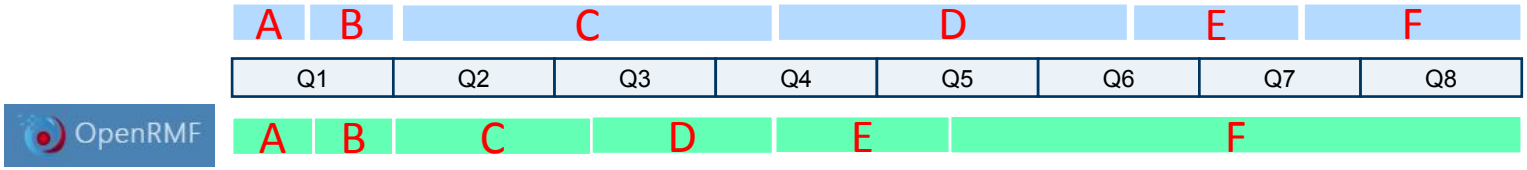
The RMF Process – 6 Steps

Time Consumers

	A.	Categorize the System
	B.	Select the Control Families
OpenRMF here →	C.	Implement the Controls
OpenRMF here →	D.	Assess the Controls
	E.	Authorize the System
OpenRMF here →	F.	Monitor Controls

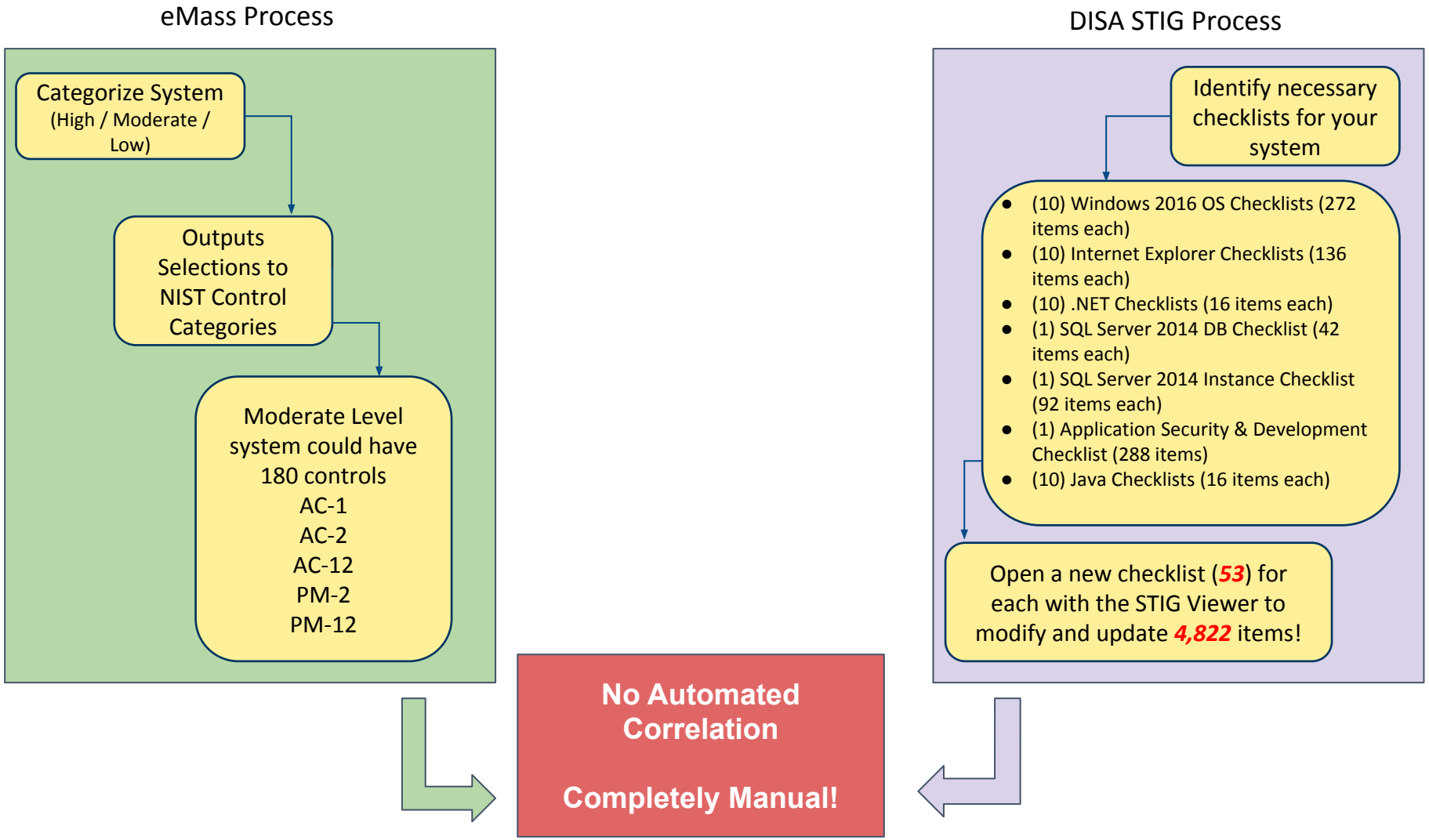


Current Timeframe

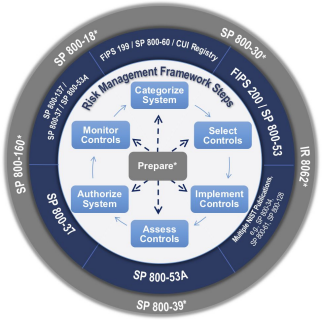


Complexity of RMF in your System

Example: 1 system consisting of 10 Windows Servers with 1 Application



Current RMF Process



Categorize System

eMASS

Select the Control Families

eMASS

Implement the Controls

Done by IT Team
SCAP Scans
ACAS Scans
Import Multiple Checklists
MS Excel
Java Viewer
Email
MS Word

Document the Results

MS Excel
MS Word
Checklist
ACAS scan
SCAP scan

eMass

Assess the Controls

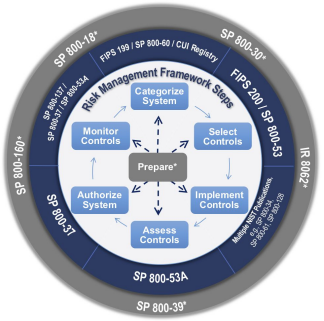
Done by Validator and IT Team
SCAP Scans
ACAS Scans
Import Multiple Checklists
MS Excel
Java Viewer
Email
MS Word

Authorize the System

Continuously Monitor Controls

Done by IT Team
SCAP Scans
ACAS Scans
Import Multiple Checklists
MS Excel
Java Viewer
Email

RMF Process with OpenRMF Automation



Categorize System

eMASS

Select the Control Families

eMASS

Implement the Controls

Done by IT Team
Import Multiple Checklists
Compliance Generation
Report Generation

Document the Results

Checklists
Compliance Report

eMass

Assess the Controls

Done by Validator and IT Team
Import Multiple Checklists
Compliance Generation
Report Generation

Authorize the System

Continuously Monitor Controls

Done by IT Team
Import Multiple Checklists
Compliance Generation
Report Generation

OpenRMF visualization and status reporting

OpenRMF Features

- 100% Open Source tool
- Automatically Relate DISA STIGs with NIST RMF Control Families and Categories Seamlessly
- Automatically Organize Checklists by System
- Single Source of Truth for all System Checklists
- Management Insight into IA Status and Security Posture
- On premise, local machine, or in the cloud
- Browser based
- Role Based Access Control
- Easily Find Errors and Deltas Across Checklists
- Removes the IA Mystery!

More information at https://www.openrmf.io/

Coming Soon…

- Nov 2019 v 0.9
  - SCAP scan import to create/update a checklist
  - Single Source of Truth for all SCAP scan results
  - Automated update of checklist from scan results
- December 2019 v 0.10
  - ACAS scan results
  - Single Source of Truth for all ACAS scan results
  - Manage your System for all Checklists
- March 2020 v 0.11
  - Logging and Auditing across systems
- May 2020 v 0.12
  - Live Editing of Checklists Online
- December 2020 - v 1.0 Enterprise Features
  - Versioning of Checklists
  - More Detailed Reporting
  - Multi-Tenant
  - Risk Assessment Report generation
  - POA&M generation

OpenRMF v 0.10 Screenshots

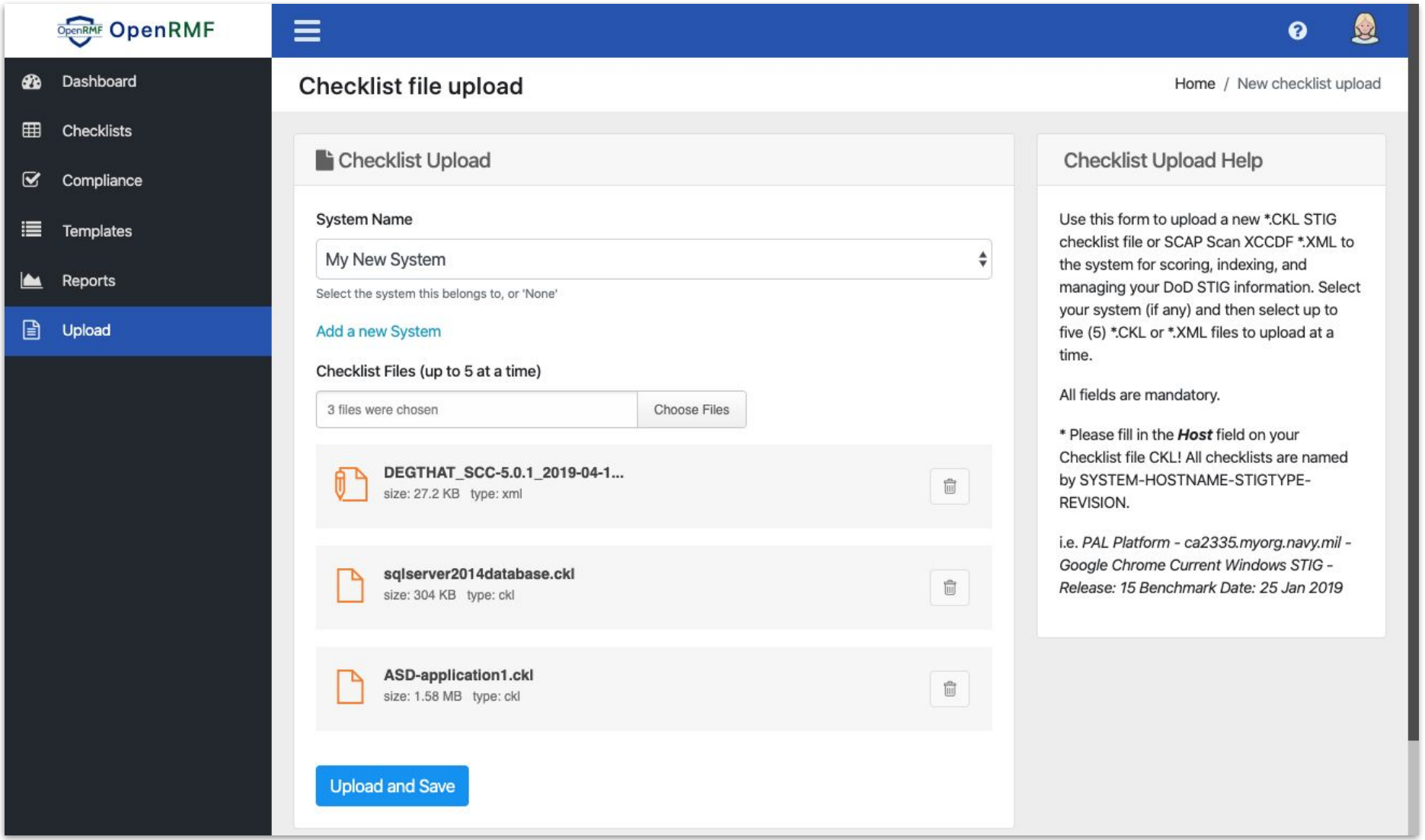
OpenRMF Testimonials

"Using the OpenRMF tool, we reduced the three weeks to generate our compliance report down to 5 minutes. And OpenRMF found an error in our compliance we did manually." – former employee of MSG

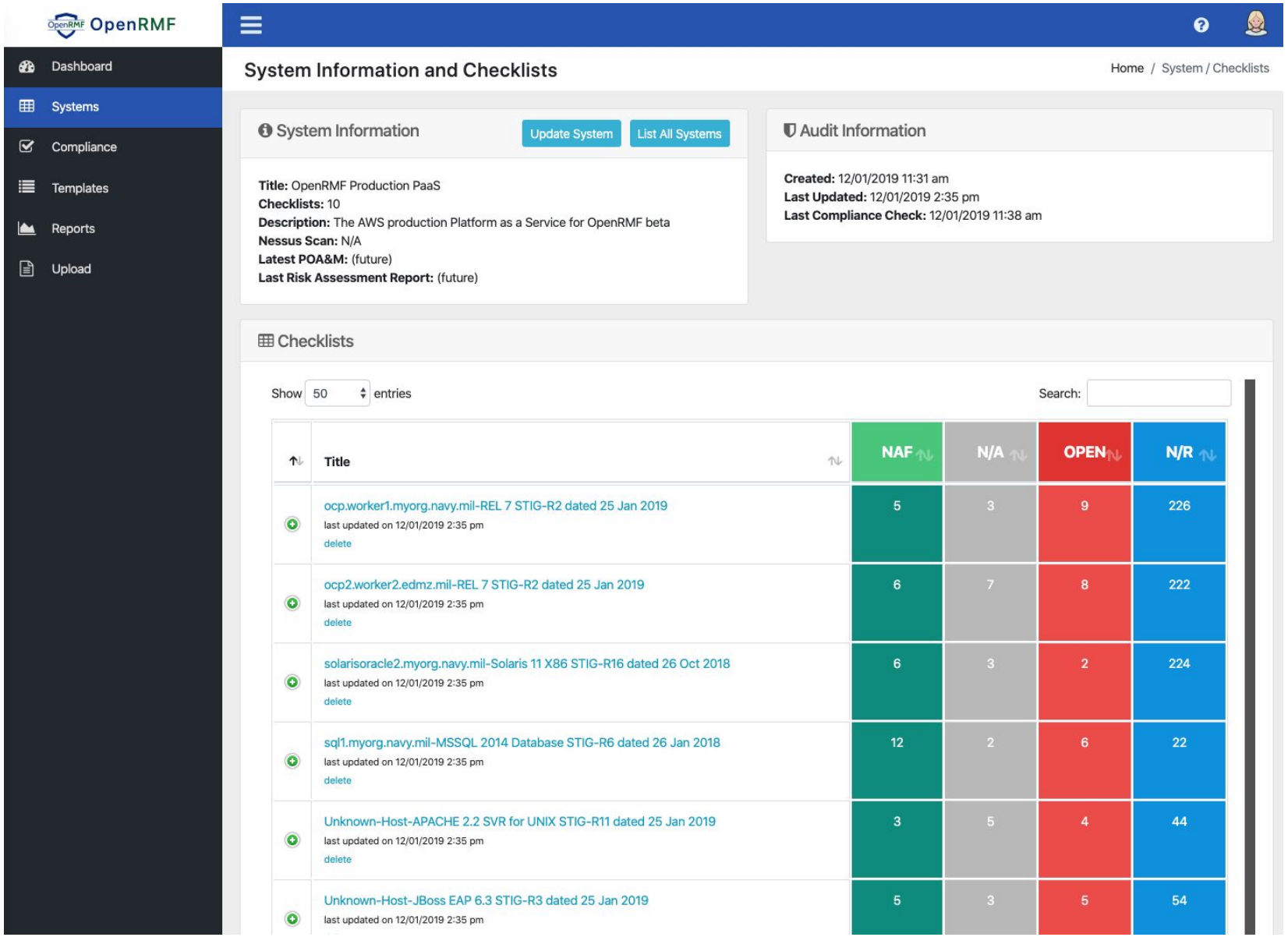
"With the OpenRMF Tool, we quickly found 2 servers with the exact same hostname we did not see by looking at each checklist individually." - Neany

"Using the list of checklists per system, we were able to update management on our number of open items across all checklists within our system in seconds." - Tutela

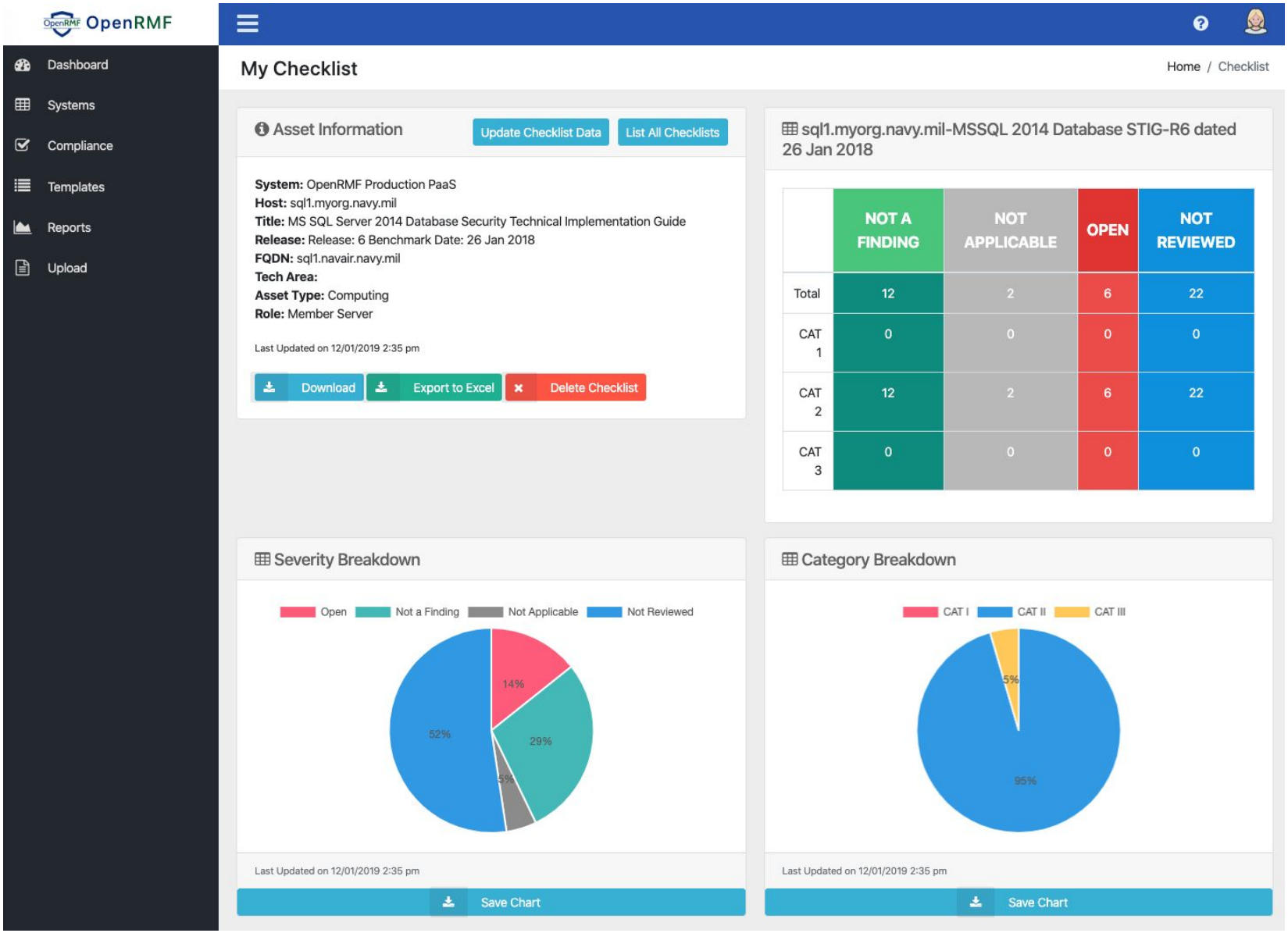
Screen Shots – OpenRMF Checklist Upload



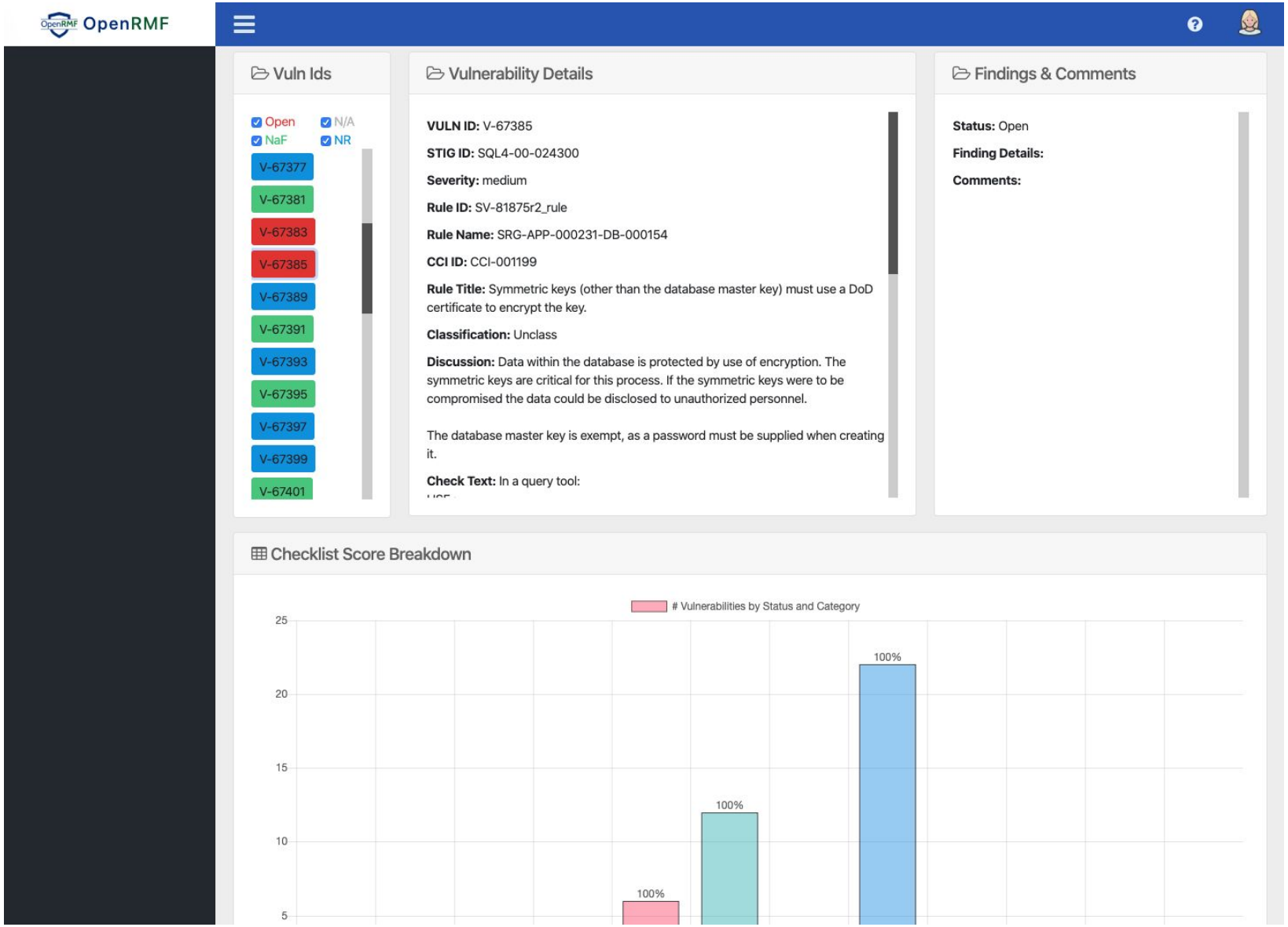
Screen Shots – OpenRMF Checklists by System



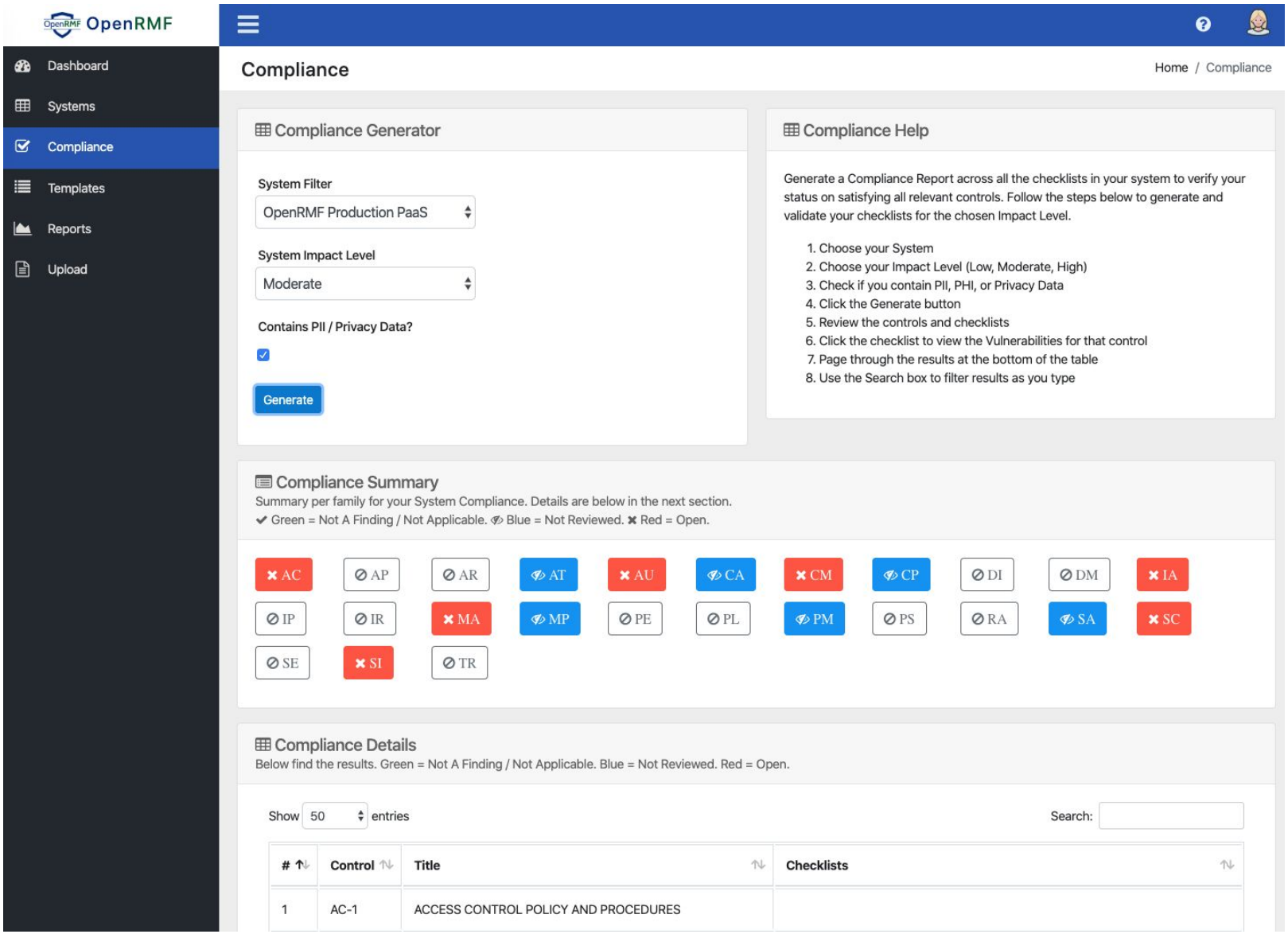
Screen Shots – OpenRMF Individual Checklist



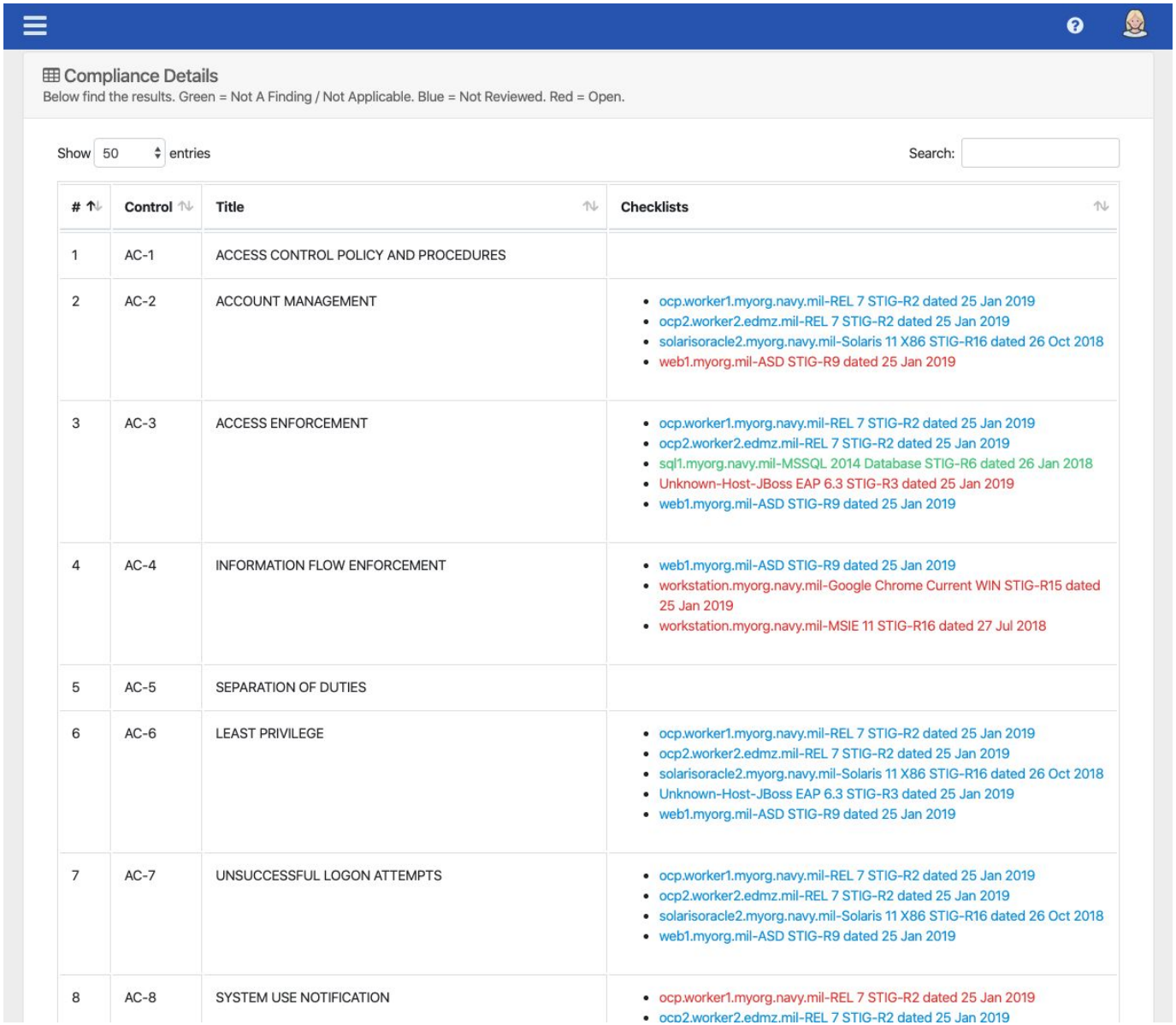
Screen Shots – OpenRMF Individual Checklist



Screen Shots – OpenRMF Generate Compliance



Screen Shots – OpenRMF Compliance Details



Compliance Details

Below find the results. Green = Not A Finding / Not Applicable. Blue = Not Reviewed. Red = Open.

Show 50 entries Search:

#	Control	Title	Checklists
1	AC-1	ACCESS CONTROL POLICY AND PROCEDURES	
2	AC-2	ACCOUNT MANAGEMENT	• ocp.worker1.myorg.navy.mil-REL 7 STIG-R2 dated 25 Jan 2019 • ocp2.worker2.edmz.mil-REL 7 STIG-R2 dated 25 Jan 2019 • solarisoracle2.myorg.navy.mil-Solaris 11 X86 STIG-R16 dated 26 Oct 2018 • web1.myorg.mil-ASD STIG-R9 dated 25 Jan 2019
3	AC-3	ACCESS ENFORCEMENT	• ocp.worker1.myorg.navy.mil-REL 7 STIG-R2 dated 25 Jan 2019 • ocp2.worker2.edmz.mil-REL 7 STIG-R2 dated 25 Jan 2019 • sql1.myorg.navy.mil-MSSQL 2014 Database STIG-R6 dated 26 Jan 2018 • Unknown-Host-JBoss EAP 6.3 STIG-R3 dated 25 Jan 2019 • web1.myorg.mil-ASD STIG-R9 dated 25 Jan 2019
4	AC-4	INFORMATION FLOW ENFORCEMENT	• web1.myorg.mil-ASD STIG-R9 dated 25 Jan 2019 • workstation.myorg.navy.mil-Google Chrome Current WIN STIG-R15 dated 25 Jan 2019 • workstation.myorg.navy.mil-MSIE 11 STIG-R16 dated 27 Jul 2018
5	AC-5	SEPARATION OF DUTIES	
6	AC-6	LEAST PRIVILEGE	• ocp.worker1.myorg.navy.mil-REL 7 STIG-R2 dated 25 Jan 2019 • ocp2.worker2.edmz.mil-REL 7 STIG-R2 dated 25 Jan 2019 • solarisoracle2.myorg.navy.mil-Solaris 11 X86 STIG-R16 dated 26 Oct 2018 • Unknown-Host-JBoss EAP 6.3 STIG-R3 dated 25 Jan 2019 • web1.myorg.mil-ASD STIG-R9 dated 25 Jan 2019
7	AC-7	UNSUCCESSFUL LOGON ATTEMPTS	• ocp.worker1.myorg.navy.mil-REL 7 STIG-R2 dated 25 Jan 2019 • ocp2.worker2.edmz.mil-REL 7 STIG-R2 dated 25 Jan 2019 • solarisoracle2.myorg.navy.mil-Solaris 11 X86 STIG-R16 dated 26 Oct 2018 • web1.myorg.mil-ASD STIG-R9 dated 25 Jan 2019
8	AC-8	SYSTEM USE NOTIFICATION	• ocp.worker1.myorg.navy.mil-REL 7 STIG-R2 dated 25 Jan 2019 • ocp2.worker2.edmz.mil-REL 7 STIG-R2 dated 25 Jan 2019

Screen Shots – OpenRMF Reports