OpenRMF 1.2 - Innovation and Automation for DISA STIGs and scans, Nessus scans and NIST Controls

https://www.openrmf.io

The only web-based open source tool to help you edit and manage your DISA STIG Checklists, Nessus Scans, NIST Controls, and correlate them automatically!

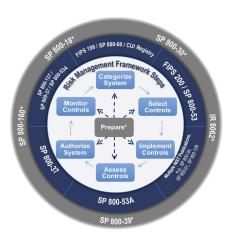
- Upload Checklists (CKL or XCCDF SCAP)
- Run Compliance and Information Reports
- Filter on Open Items remaining
- Edit and Manage Checklists by System



Current Challenges Implementing RMF

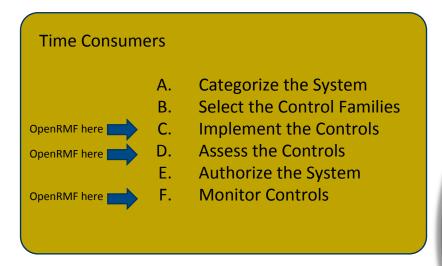


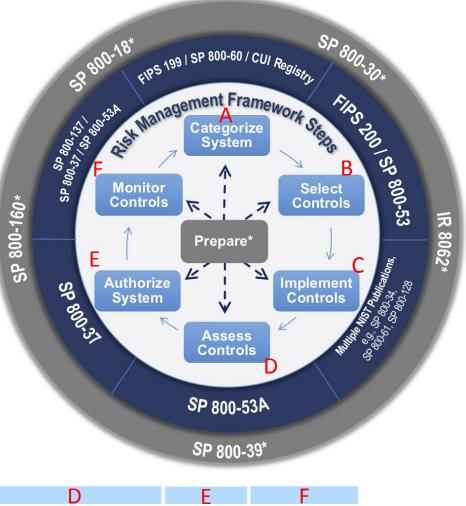
- Slow process driven by disparate systems
- Compliance with STIGs means checklists are numerous and not automatically related directly to NIST control families
- Information shared via Email, DISA STIG Viewer, Excel, and shared folders no single source of truth
- Limited management oversight into the IA status and security posture
- Must install Java to use the DISA STIG viewer to edit Checklists
- Teams need actionable data from Nessus ACAS scans easily
- IT Teams must manage the checklists manually
- Checklists are managed and edited 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



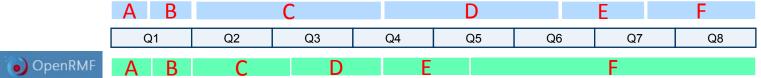
The RMF Process – 6 Steps







Current Timeframe



Complexity of RMF in your System



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

eMass Process Categorize System (High / Moderate / Low) Outputs Selections to **NIST Control** Categories Moderate Level system could have 180 controls AC-1 AC-2 AC-12 PM-2 PM-12

No Automated Correlation

Completely Manual!

DISA STIG Process

Identify necessary checklists for your system

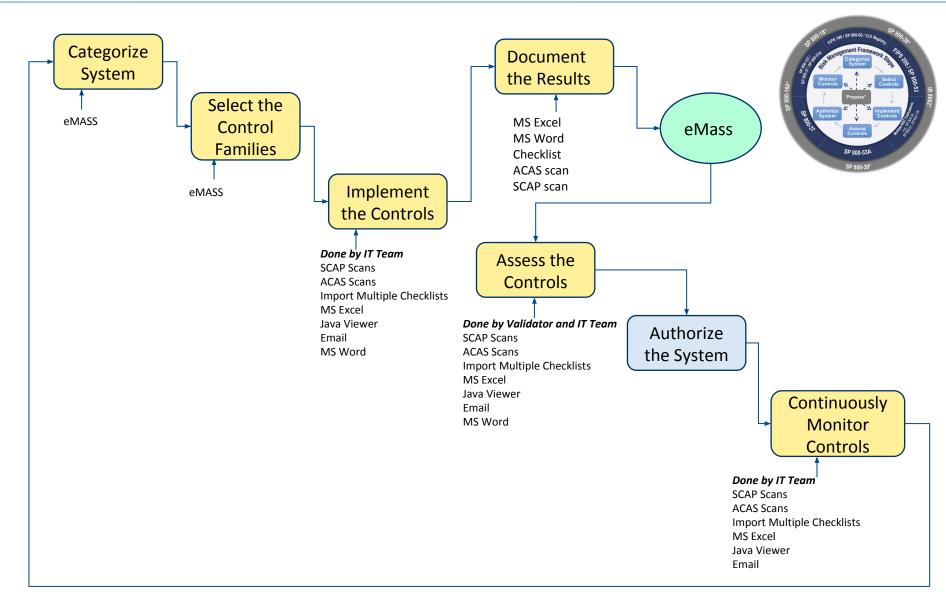
- (10) Windows 2016 OS Checklists (272 items each)
- (10) Internet Explorer Checklists (136 items each)
- (10) .NET Checklists (16 items each)
- (1) SQL Server 2014 DB Checklist (42 items each)
- (1) SQL Server 2014 Instance Checklist (92 items each)
- (1) Application Security & Development Checklist (288 items)
- (10) Java Checklists (16 items each)

Open a new checklist (53) for each with the STIG Viewer to modify and update 4,822 items!



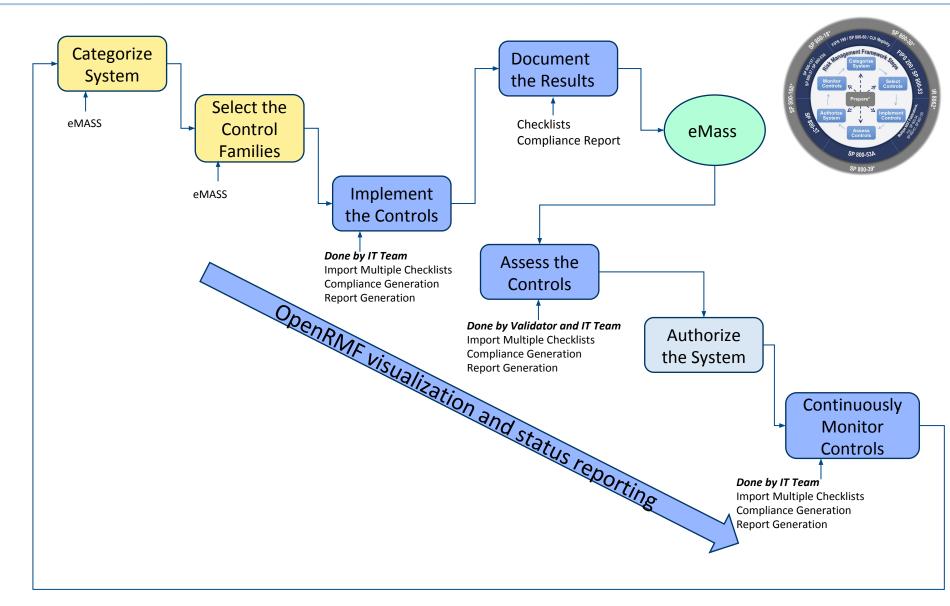
Current RMF Process





RMF Process with OpenRMF Automation





Saving Time and Frustration



Task	Currently (manual)	OpenRMF
Import SCAP scans to create a checklist	2 - 5 minutes per scan	4 seconds
	i.e. 200 checklists = a few days	* up to 10 at a time
Create a Starting POA&M on Open and Not Reviewed Items	1 day minimum, depending on the size of the system	5 seconds
Create a Test Plan Summary to 90%	1 day minimum, depending on the size of the system	5 seconds
Create a Risk Assessment Report to 90%	2 days minimum, depending on the size of the system	5 seconds
Upgrade a Checklist to the new Release (Quarterly)	1 hour minimum, depending on the # of items in the checklist	10 seconds per checklist
Keeping Track of the # of Open Items, Not a Finding, Not Reviewed, and N/A by Severity (Category) across all checklists in a complete system	Too hard to keep current, not done usually	5 seconds to view 5 seconds to Excel

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
- Edit your Checklist data Live through a web browser! Includes Bulk Edit in v 1.1.
- Run Nessus scan, Checklist, Vulnerability and Controls reports across your whole System
- Management Insight into IA Status and Security Posture
- On premise, local machine, or in the cloud
- 100% Browser based
- Role Based Access Control
- Easily Find Errors and Deltas Across Checklists
- Run Nessus scan, Checklist, and Controls reports
- Removes the IA Mystery!

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

OpenRMF Updates in 2020



March 2020 v 0.12 Delivered

- Automatically create your Test Plan Summary, POA&M, Risk Assessment Report
- Live Editing of Checklists Online
- Better reporting and filtering of data

April 2020 - v 0.13 Delivered

- Jaeger API Tracing built in
- Better monitoring
- Saving Compliance Reports

May 2020 - v 0.14 Delivered

- Updated Performance
- Updating Reports

May 2020 - v 0.15 Delivered

NGINX reverse proxy for improved security

May 2020 - v 1.0 OpenRMF Core (OSS)

Performance Improvements

June 2020 - v 1.1 OpenRMF Core (OSS)

Rootless containers, updated UI Components, Bulk Edit for Vulnerabilities

July 2020 - v 1.2 OpenRMF Core (OSS) Now Released!

.NET Core 3.1, Updated server components, Keycloak theme, Compliance Results Filtering

Fall 2020 - v 2.0 Enterprise Features

- Multi-Tenant, Versioning of Checklists, Versioning and Merging of Nessus ACAS scan data
- More Detailed Reporting, Enterprise Connectors to external systems

OpenRMF Testimonials



"The work you all have put into this project is phenomenal! I can't say enough great things about the team and the amazing accomplishments you all have achieved in a very, very short period of time. Now that's what I call CodeHustle!"

"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

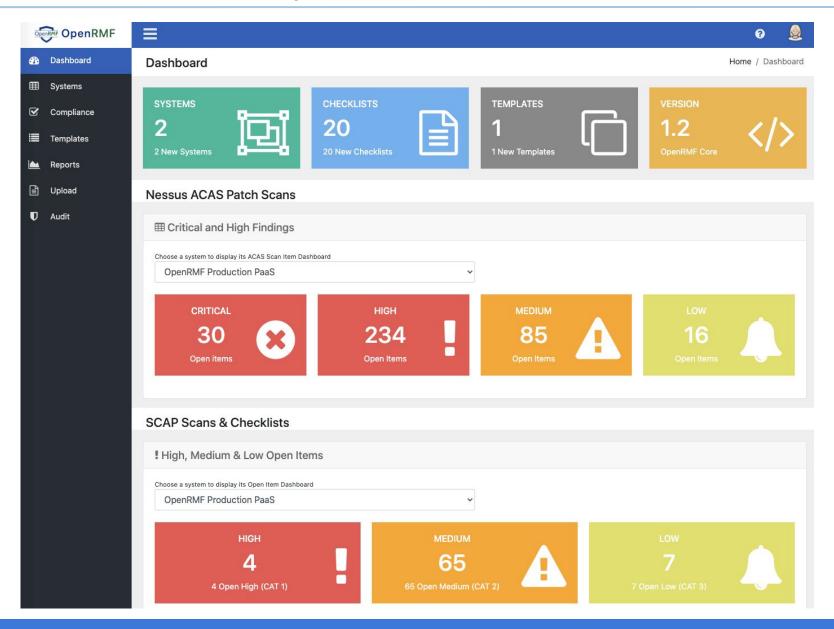
"Using the list of checklists per system, we were able to update management on our number of open items across all checklists within our system in seconds." - Tutela



OpenRMF Core OSS Screenshots

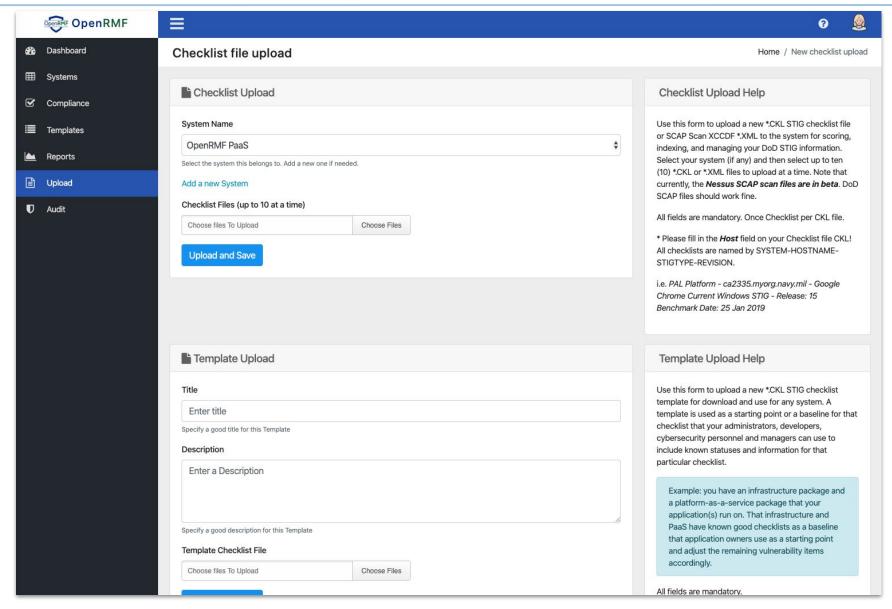
Screen Shots – OpenRMF Dashboard





Screen Shots - OpenRMF Checklist Upload





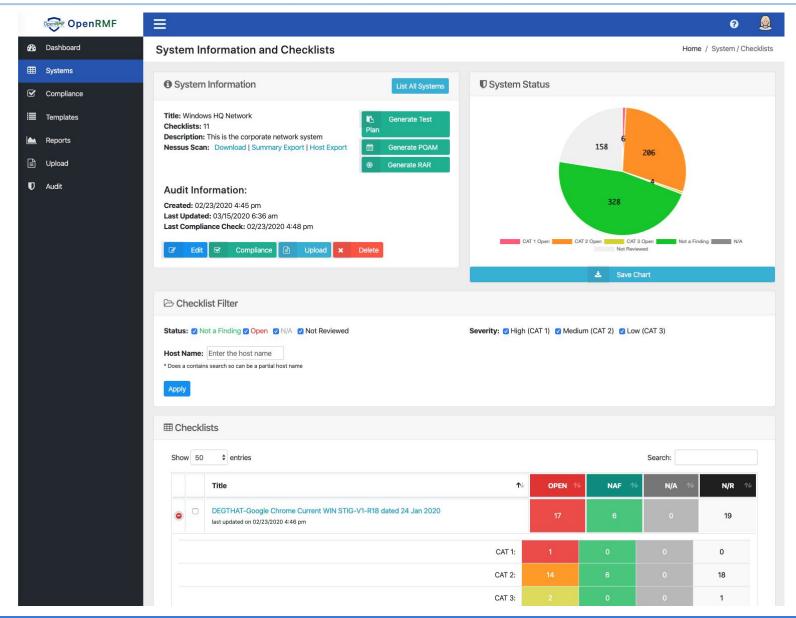
Screen Shots – OpenRMF Checklists by System





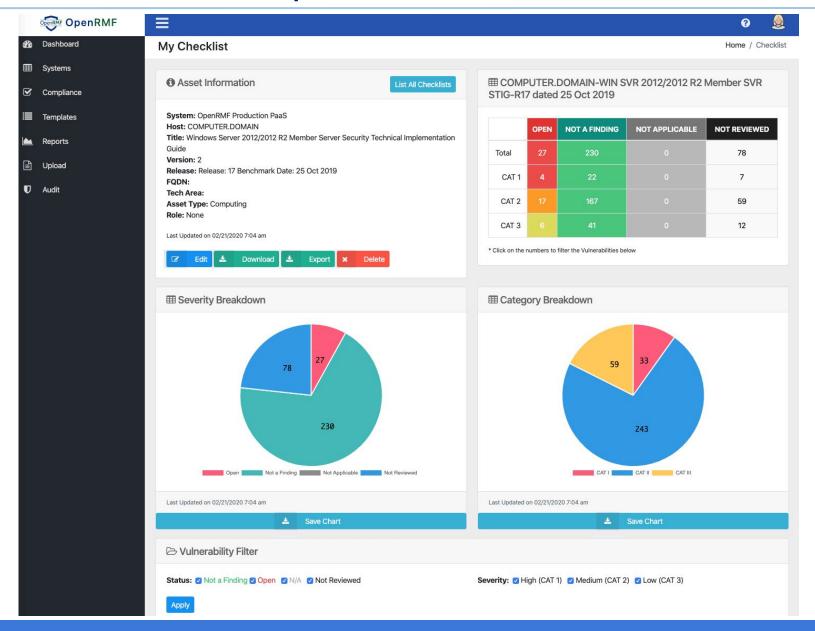
Screen Shots – OpenRMF System Record





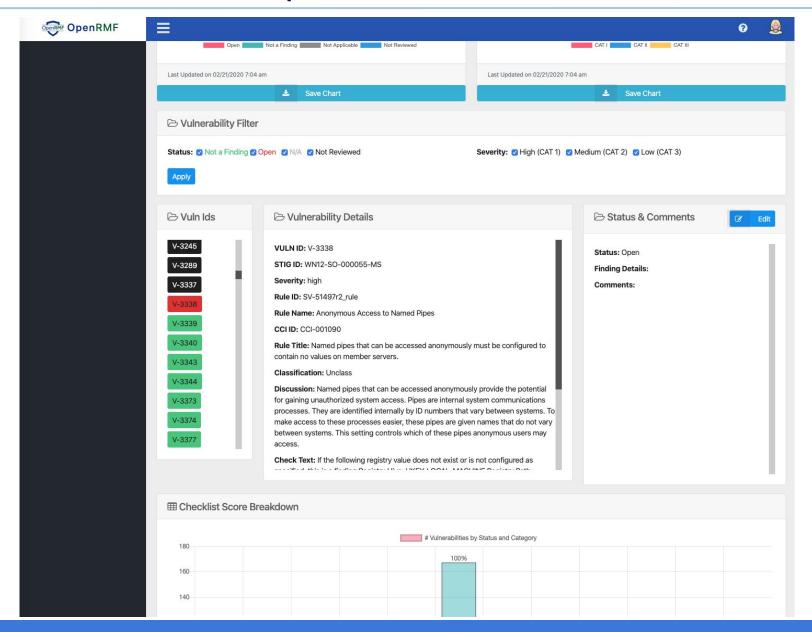
Screen Shots – OpenRMF Individual Checklist





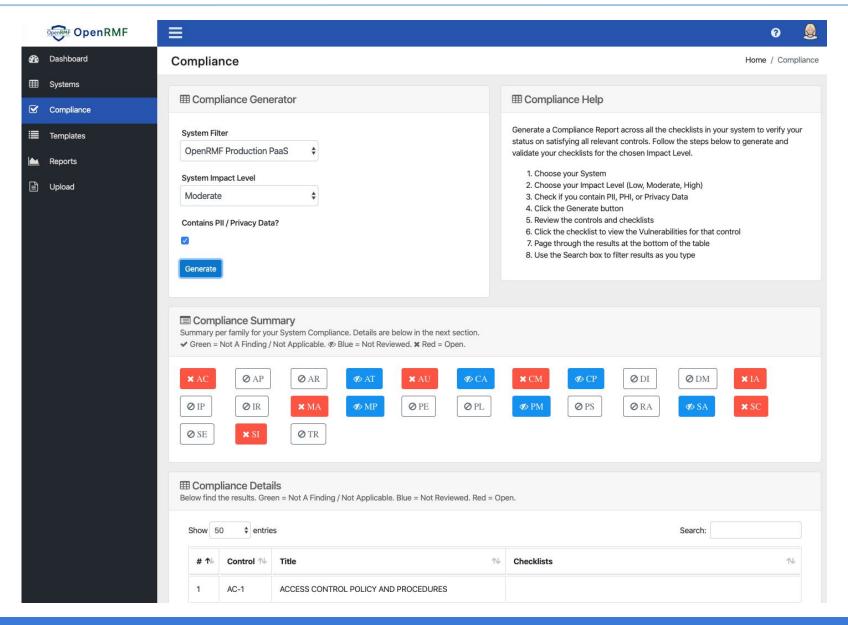
Screen Shots – OpenRMF Individual Checklist





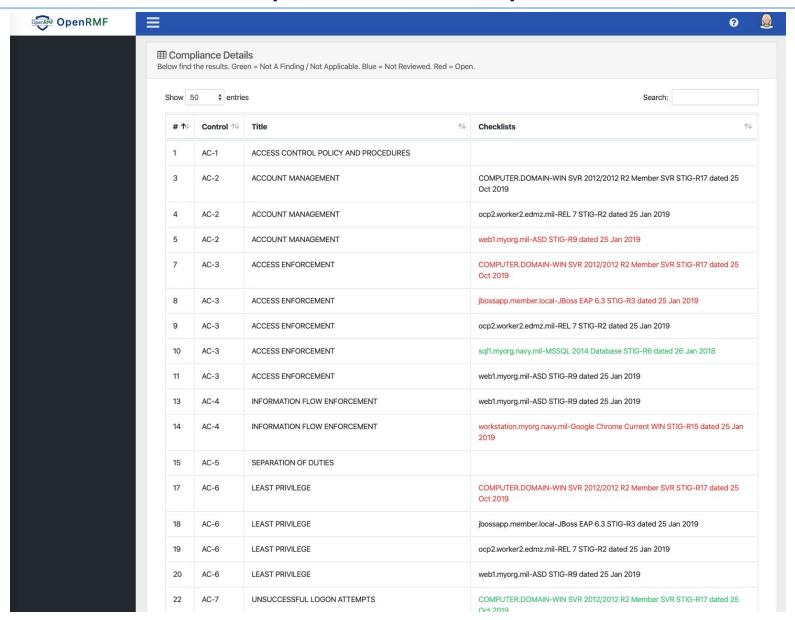
Screen Shots – OpenRMF Generate Compliance





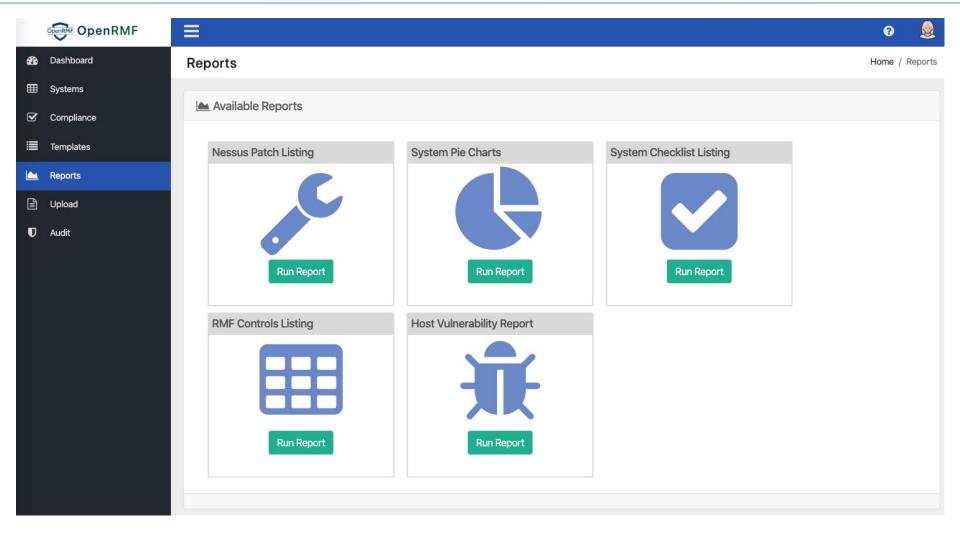
Screen Shots – OpenRMF Compliance Details





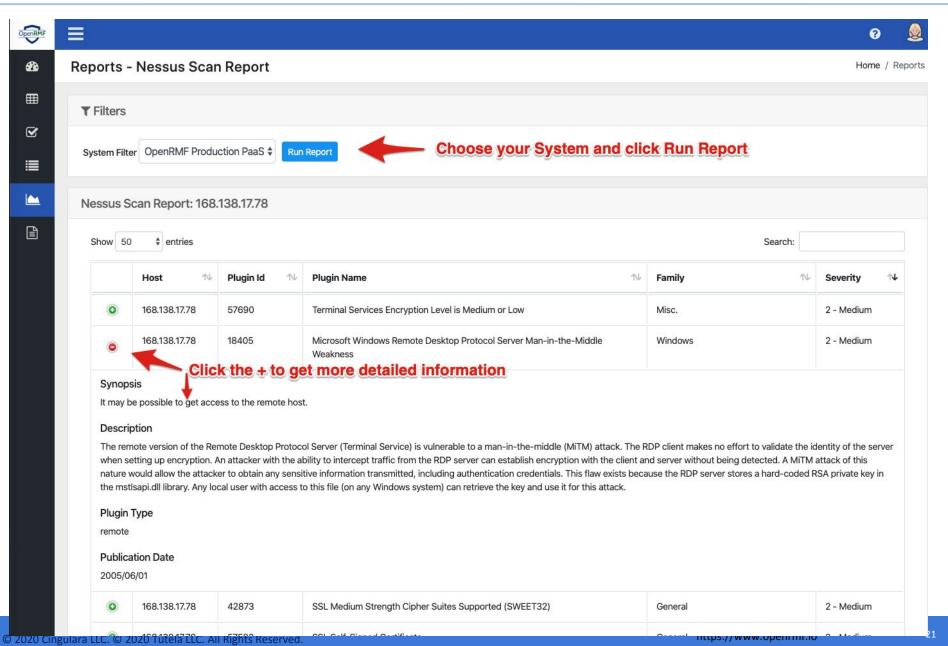
Screen Shots – OpenRMF Reports





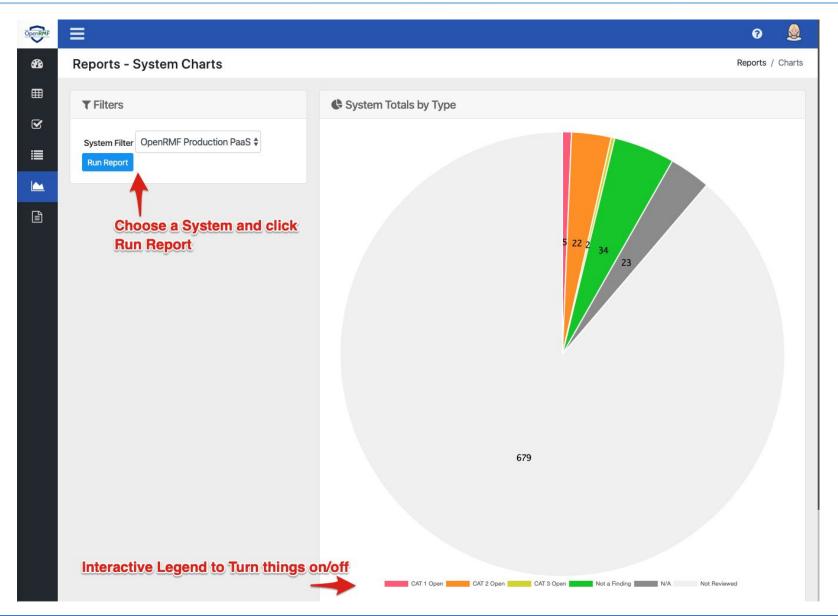
Screen Shots – OpenRMF Nessus Reports





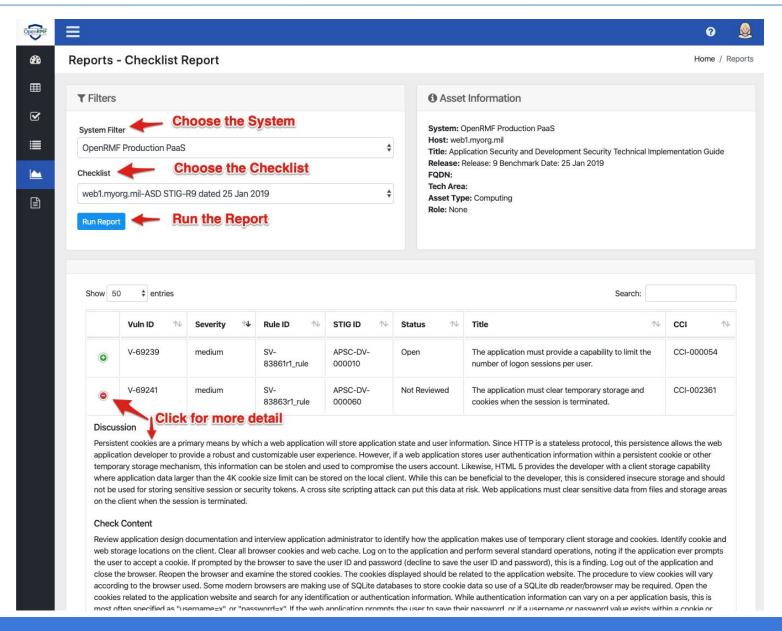
Screen Shots – OpenRMF System Reports





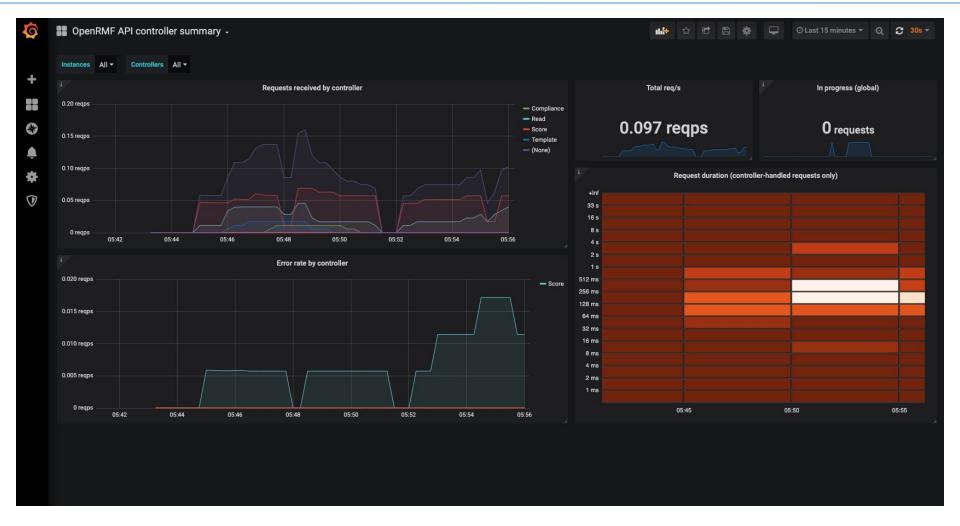
Screen Shots – OpenRMF Checklist Reports





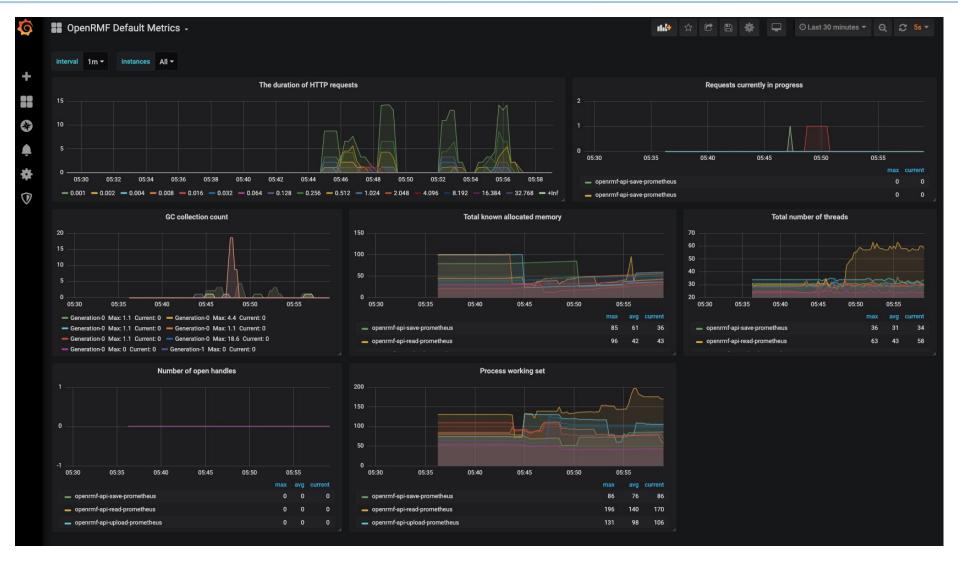
Screen Shots – OpenRMF Metrics (Grafana)





Screen Shots – OpenRMF Metrics (Grafana)





Screen Shots – OpenRMF Metrics (Grafana)



