

OpenSCAP

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Agenda

- Compliance Audit
- Why we are doing it
- What is SCAP
- OpenSCAP ecosystem
- Future challenges



appetizer



Compliance Audit

- Proactive security
- Security Policy
- Why?
 - Military (stig)
 - Government regulations (cc, usgcb)
 - FISMA Act.
 - ISO/EIC 27000 standard series
 - Card industry (pci dss)



demo

What is SCAP

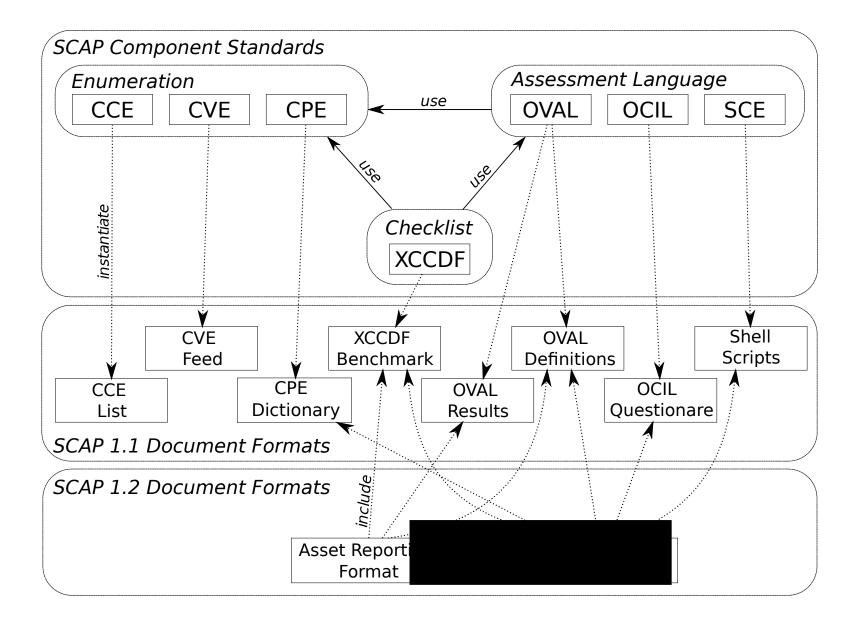
- Group of many standards
- Automated compliance checking
- Governed by NIST
 - http://scap.nist.gov/
 - Industry standard
- Current version: 1.2



SCAP Components







MEETING IN PROGRESS

SMEPDISMATHA MOME SEWS CA NISTASLR SEED AES XCCDF NISTASLR SEED AES XCCDF DES FIPS STITISGEB CCE NTLMPAMISS GCMDSS GPOS DISA RNGDACC MLSOF BHBSS DISA RNGDACC MLSOF BHBSS



DON'T WORRY.

SECURITY

No acronyms. No security. No problem.









Foreman OpenSCAP



Ruby Gem OpenSCAP



Puppet OpenSCAP



SCAPtimony





open-scap.org

```
Verify permissions on 'shadow' file
Title
Rule
        rule-2.2.3.1.i
Ident
        CCE-4130-1
Result
        pass
        Verify permissions on 'group' file
Title
Rule
        rule-2.2.3.1.j
Ident
        CCE-3967-7
Result
        pass
        Verify permissions on 'gshadow' file
Title
Rule
        rule-2.2.3.1.k
Ident
        CCE-3932-1
Result
        pass
Title
        Verify permissions on 'passwd' file
Rule
        rule-2.2.3.1.l
Ident
        CCE-3566-7
Result
        pass
        Verify that All World-Writable Directories Have Sticky B
Title
Rule
        rule-2.2.3.2.a
Ident
        CCE-3399-3
Result
```



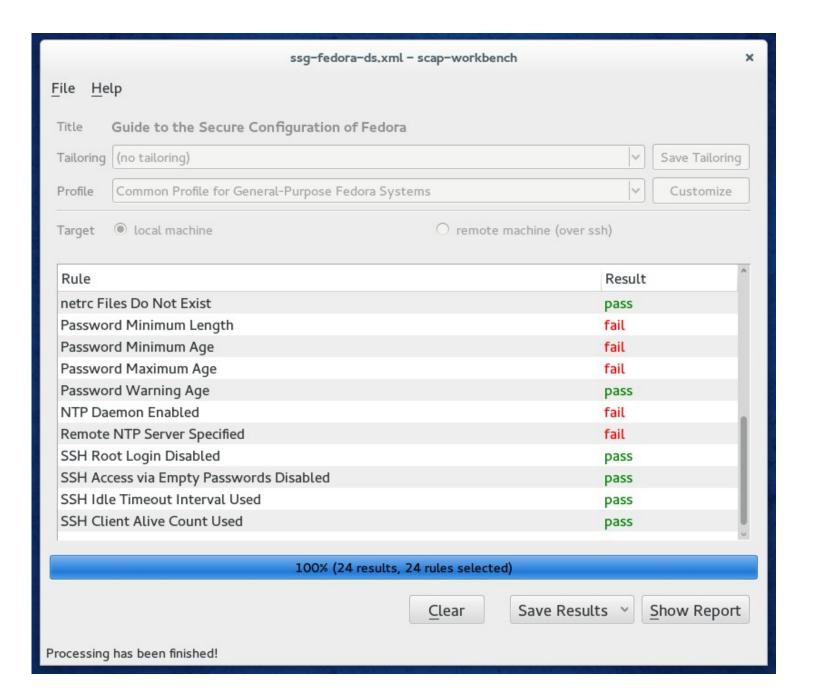
github.com/OpenSCAP/scap-security-guide

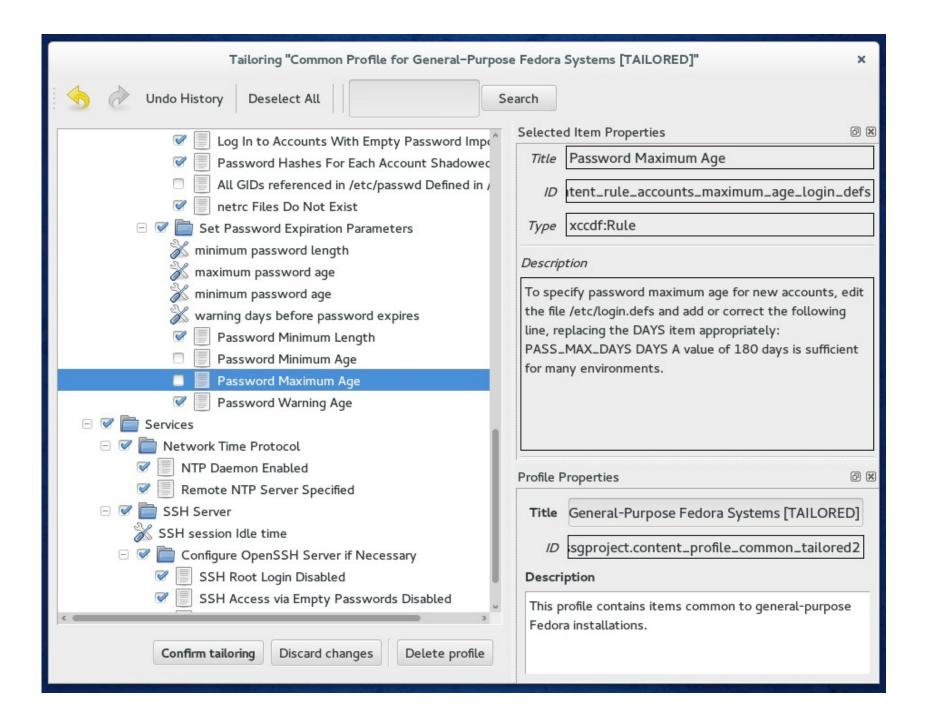
demo





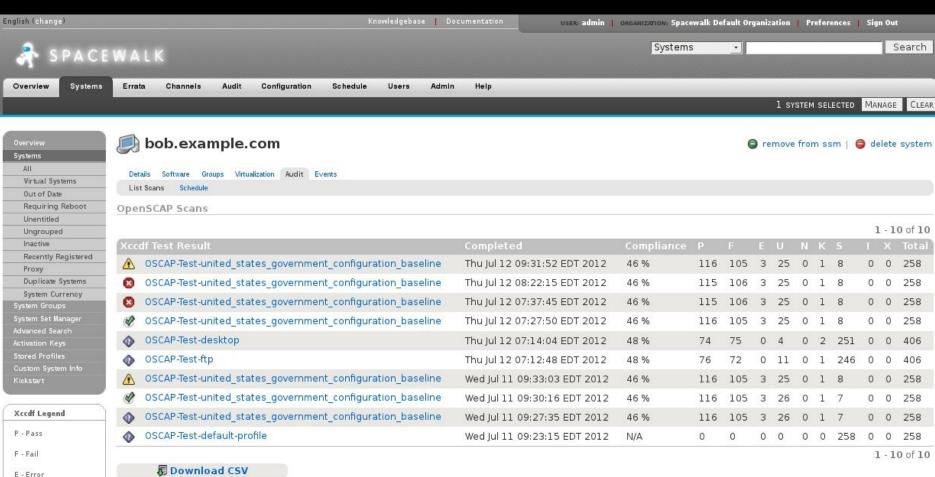
github.com/OpenSCAP/scap-workbench







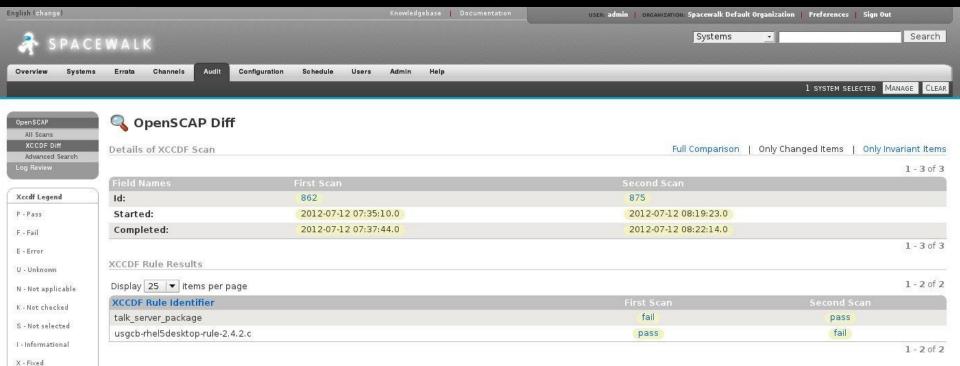
spacewalk.redhat.com



Download CSV

U - Unknown N - Not applicable K - Not checked S - Not selected I - Informational X - Fixed

Tip: Compliance column represents unweighted pass/fail ration. Compliance = P/(Total - S - I).





Systems Search

Overview Audit Configuration Systems Channels Schedule Users Admin Help Errata

5 SYSTEMS SELECTED MANAGE CLEAR

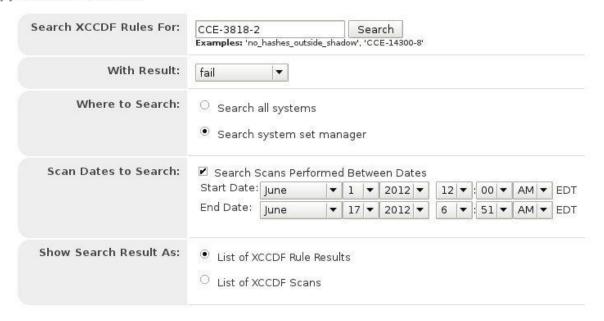
All Scans Advanced Search



Q OpenSCAP Search

OpenSCAP Search will return finished OpenSCAP scans from all scans you have access.

Specify your search criteria below.



Display 25 ▼ items per page	1 - 2 of 2
XCCDF Ident Tags	Result
CCE-3818-2	fail
CCE-3818-2	fail
	XCCDF Ident Tags CCE-3818-2

1-2 of 2



OSCAP Anaconda Addon

fedorahosted.org/oscap-anaconda-addon

PRE-RELEASE / TESTING



Choose profile below:

Common Profile for General-Purpose Systems

This profile contains items common to general-purpose desktop and server installations.

Desktop Baseline

This profile is for a desktop installation of RHEL 6.

Server Baseline

This profile is for RHEL 6 acting as a server.

Pre-release Draft STIG for RHEL 6 Server

This profile is being developed under the DoD consensus model to become a STIG in coordination with DISA FSO.

Default

The default profile.

Changes needed to be done:

/tmp is not on a separate partition





LOCALIZATION



DATE & TIME

America/New_York timezone



SECURITY



SECURITY PROFILE Misconfiguration detected

SOFTWARE





SOFTWARE SELECTION Installation source not set up



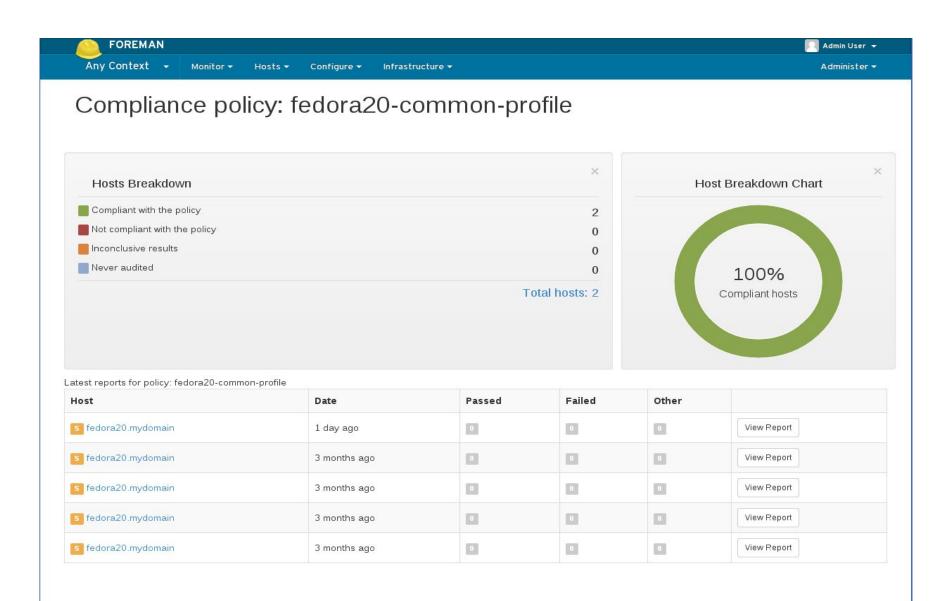
Quit

Begin Installation

We won't touch your disks until you hit this button.



github.com/OpenSCAP/foreman_openscap



Scale SCAP

- vendor neutral and centralized SW inventory
- vendor neutral CI compliance monitoring
- vendor neutral threat life-cycle management
- organization defined targeting
- better understanding of given system's purpose by auditing infrastructure



github.com/OpenSCAP/scaptimony

Thanks!

isimluk.livejournal.com
twitter.com/openscap

