

SCAP Content Repository - Preview Chandrashekhar B

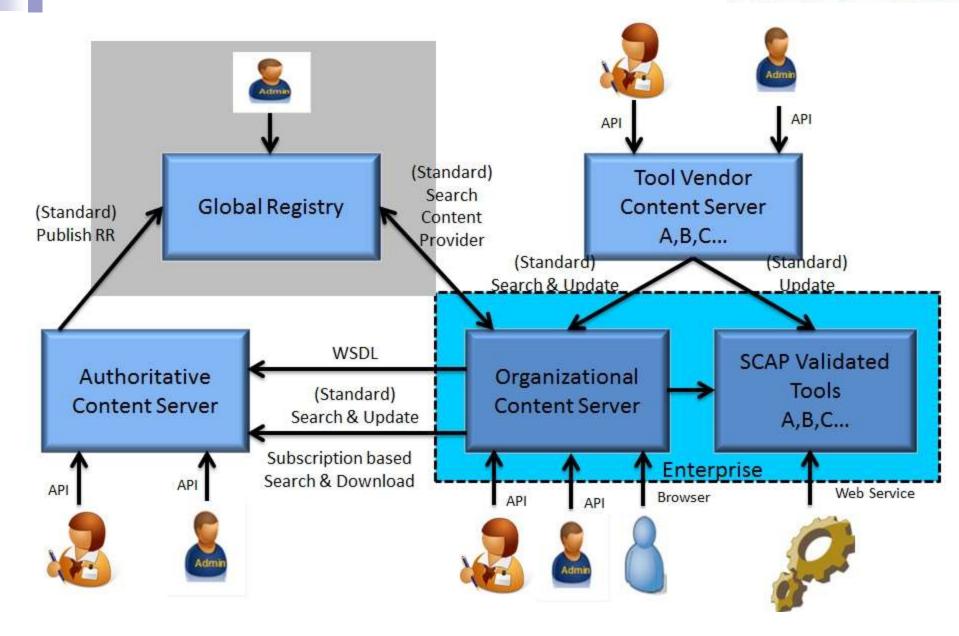




The need

- Standardized security content in a single store (Many standards today CVE, CPE, CCE, CVSS, CCSS, XCCDF, OVAL, OCIL, AI, ARF)
- Content aggregation from distributed repositories
 - NIST Repository
 - ☐ MITRE OVAL Repository
 - ☐ OS Vendor Repositories
 - □ Product Vendors Content (Supported)
 - ☐ SecPod Repository (Supported)
- Content Management
 - ☐ Global and Local Search for appropriate content
 - ☐ Import content
 - □ Content distribution across SCAP products within the organization
 - ☐ Author/Customize content per organizational need
- SCAP all in an automated fashion









Deployment Scenarios

- Organizational Content Server
- Authoritative Repository Server
- SCAP Product Vendor





Roles and Use Cases

- Organizational Users
- Organizational Repository Administrator
- A Consumer Program/Product
- Content Authoring/Tailoring





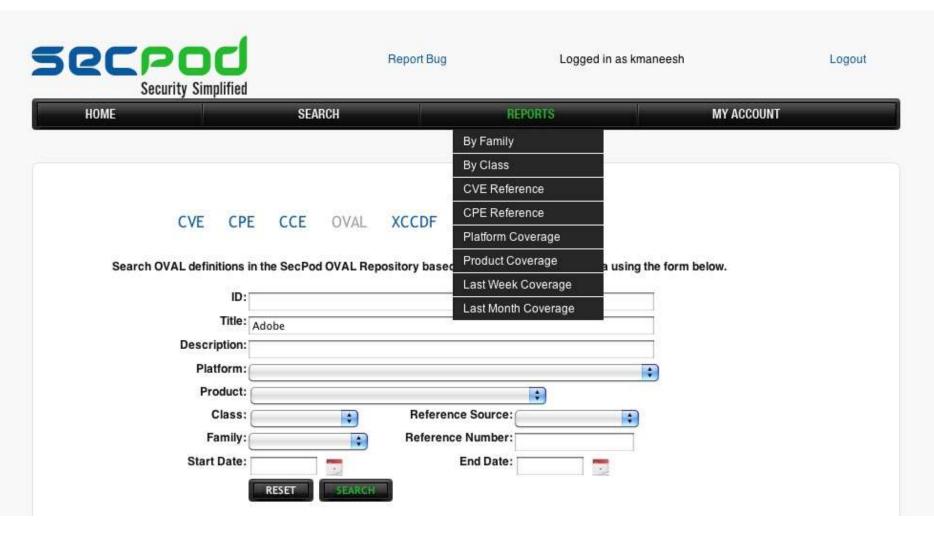
Organizational users

- Search for appropriate content
- Fetch specific content
- Run Risk reports





Organizational users







Organizational Repository Administrator

- Global and Local Search for appropriate content
- Import content
- Export the content based on policy and create datastream
- Deploy to a Web, FTP container or Rsync server
- Generate Risk Metrics and alerts
- Maintain repository sanity
- Manage organizational users and policies



Organizational Repository Administrator

This is your interface to perform operations on the SecPod SCAP Repository

Usage: <command> <arguments...> Valid commands:

cpe : CPE Management Interface

Usage: cpe

cve : CVE Management Interface

Usage: cve

cce : CCE Management Interface

Usage: cce

xccdf : XCCDF Management Interface

Usage: xccdf

oval : OVAL Management Interface

Usage: oval

usermgmt : User Management Interface

Usage: usermgmt

policymgmt : Policy Management Interface

Usage: policymgmt

tools : Repository Tools

Usage: tools

reports : Reports Management Interface

Usage: reports

exit/quit : Quit the application

Usage: exit or Usage: quit

SCAPRepo>

SCAPRepo>reports

This is your interface to generate reports from the SCAP Repository SCAPRepo:Reports>stats

OVAL Definitions = 12932

CCEs = 10316 CVEs = 1304

CPEs = 34605

SCAPRepo:Reports>



Organizational Repository Administrator

SCAPRepo: Tools>help

Usage: <command> <arguments...>

Valid commands:

Import SCAP content into the Repository importscap

Usage: importscap -n <file absolute path>/<scap bundle>

Export SCAP content based on defined policies export

Usage: export <policy name>/all

datastream Create SCAP Data Stream from SCAP content Directory

Usage: datastream -n <directory name>

deploy Deploy SCAP content as defined in deployment rules in repo.config

Usage: deploy <rsync/http>

Check for any updates checkupdates

Usage: checkupdates <filename>

checkorphans Check for any orphan elements

Usage: checkorphans <report/delete>

xmlsign Generate digital signature for SCAP bundle/stream

Usage: xmlsign <scap file absolute path>

help Help

Usage: help

Exit Tools Inteface exit/quit

Usage: exit or Usage: quit

SCAPRepo:Tools>export Firefox BenchMark

Oct 27, 2011 7:27:57 PM com.secpod.oval.OvalRepository export

INFO: Success

Oct 27, 2011 7:28:03 PM com.secpod.oval.OvalRepository export

INFO: Success

SCAPRepo:Tools>datastream reports/Firefox BenchMark

Datastream reports/Firefox BenchMark/Firefox-Default.xml created.

SCAPRepo: Tools>deploy http

SCAPRepo:Tools>

[root@secpod reports]# ls /feed/http/Firefox BenchMark/ Firefox-Default.xml md5sum.txt [root@secpod reports]# ls /feed/http/Firefox BenchMark/





A Consumer Program/Product

- Web Services model (WSDL)
- Query what it wants build programs with standardized search queries
- Query its entitlements List all Data Stream or Bundle it can fetch
- Query the Data Stream or Bundle URI, URI can be HTTP, FTP, SCP, Rsync



A Consumer Program/Product

```
[root@secpod SCAPRepoWebService]# ant run
Buildfile: build.xml
Trying to override old definition of task apt
run:
     [java] Binding to SCAP Repository service at: http://scap.secpod.com/scaprepo
     [java] Invoking login using: root
     [java] The result of authenticate is: Success
     [java]
     [java] Performing OVAL Search Definition operation...
     [java] SEARCH Title containing MS11-011
     [java]
     [java] The result of SEARCH operation is:
     [java] oval:org.secpod.oval:def:1036|PATCH|Elevation of privilege vulnerability in Microsoft W
indows - MS11-011|2011-05-23
     [java] oval:org.secpod.oval:def:90|VULNERABILITY|MS11-011 - Elevation of privilege vulnerabilit
y in Microsoft Windows XP, Windows Server 2003, Windows Vista, Windows Server 2008, Windows 7, Windo
ws Server 2008 R2|2011-02-09
     [java] oval:org.secpod.oval:def:91|VULNERABILITY|MS11-011 - Integer truncation vulnerability in
Microsoft Windows XP via a crafted application, aka "Windows Kernel Integer Truncation Vulnerabilit
y" | 2011-02-09
     [java]
     [java] Showing a list of Data Streams and Data Components available...
     [java]
     [java] ADMIN|ALL ADOBE CCE|ALL ADOBE CPE|ALL Adobe CVE|ALL Adobe OVAL|ALL Mozilla CCE|ALL Mozil
la CPE|ALL Mozilla CVE|ALL Mozilla OVAL|Firefox BenchMark|INVENTORY|MAC OS X|MAC OS X Inventories|MA
C OS X PATCHES|MAC OS X VULNERABILĪTY|PATCH|UNIX|UNIX INVENTORIES|UNIX PATCHES|UNIX VULNERABILĪTY|VU
LNERĀBĪLITY|WINDOWS|WĪNDOWS INVENTORIĖS|WINDOWS PATCHĒS|WINDOWS VULNERĀBILITY|
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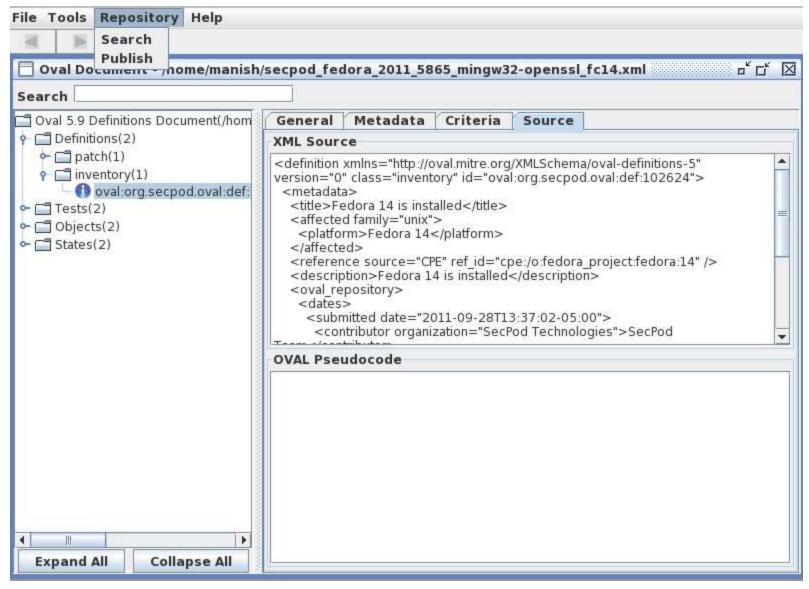


Content Authoring/Tailoring

- Search for appropriate content
- Reuse content
- Author content
- Publish content



Content Authoring/Tailoring







How we use at SecPod

- As a Content Repository for a subscription based SCAP Content Professional Feed
- Hosted at http://oval.secpod.com





What next?

- Global Registry
- Standardize SCAP search queries
- WSDL for Content Servers
- Does it fit into Continuous Monitoring framework?
- Productize SCAP Content Server





Questions

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