# Baselines (Extended Info)



DEPRECATED AT AT v2. See Baselines.

## Introduction

Starting in Open-AudIT 1.10 we are introducing a new feature - Baselines.

Baselines enable you to combine audit data with a set of attributes you have previously defined (your baseline) to determine compliance of devices.

For example - you might create a baseline from a device running Centos 6 which acts as one of your apache servers in a cluster. You know this particular server is configured just the way you want it but you're unsure if other servers in the cluster are configured exactly the same. Baselines enables you to determine this.

Our initial release (in 1.10) is functional but not yet complete. You can create a baseline, run it against a group of devices and view the results. We plan to add scheduled execution (done in 1.12), more tables for comparison (currently only software, netstat ports and users are enabled), in place baseline editing, archiving of results and more.

Terms:

Baseline - the overarching document that contains the baseline definition and the individual policy tests.

Policies - The individual tests contained within a Baseline. Each test is for a specific item. An example would be testing for SSH version 1.2.3.

Read on to learn how to create and execute a Baseline!

**NOTE** - Clicking an image will show a full size version of it.

*WARNING - When creating a baseline using software policies, at present Centos and RedHat package the kernel using the names 'kernel' and 'kernel-devel'. There can be multiple packages with this name and different versions concurrently installed. Debian based distributions use names like 'linux-image-3.13.0-24-generic', note the version number is included in the package name. Because RedHat based OS's use this format and subsequently have multiple identical package names with different versions we currently exclude 'kernel' and 'kernel-devel' from software policies. This may be addressed in a future update.*

# Details

Baselines can compare netstat ports, users and software.

### Software

To compare software we check the name and version. Because version numbers are not all standardised in format, when we receive an audit result we create a new attribute called software_padded which we store in the database along with the rest of the software details for each package. For this reason, baselines using software policies will not work when run against a device that has not been audited by 1.10 (at least). Software policies can test against the version being "equal to", "greater than" or "equal to or greater than".

### Netstat Ports

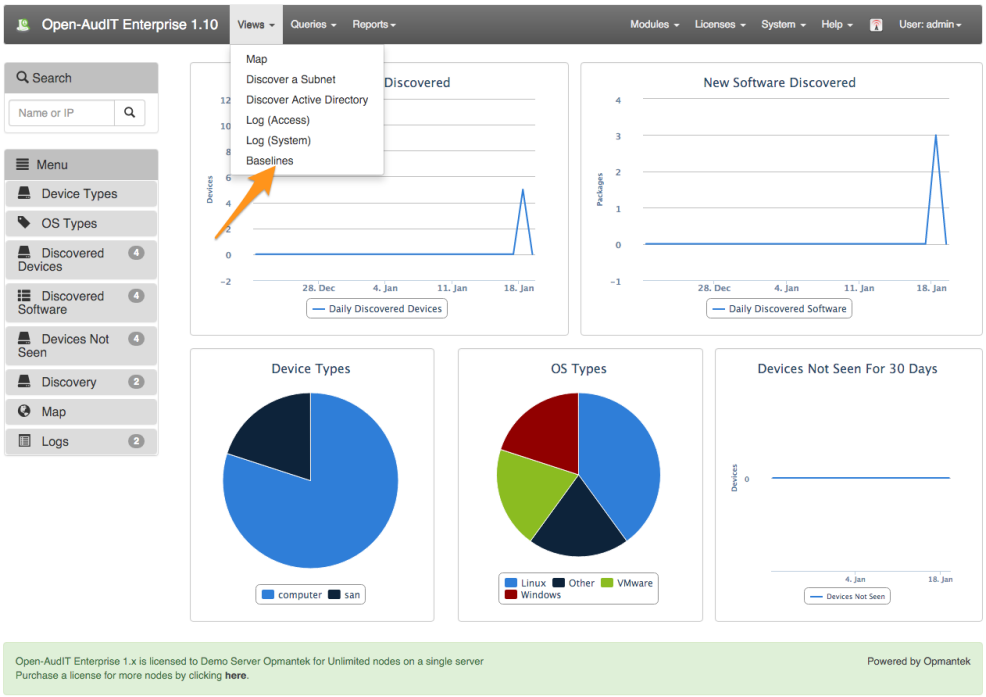
Netstat Ports use a combination of port number, protocol and program. If all are present the policy passes.

### Users

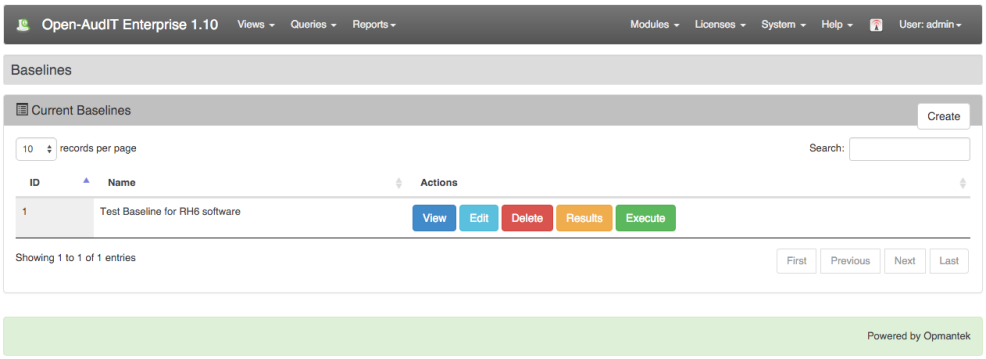
Users work similar to Netstat Ports. If a user exists with a matching name, status and password details (changeable, expires, required) then the policy passes.

## Baseline Creation

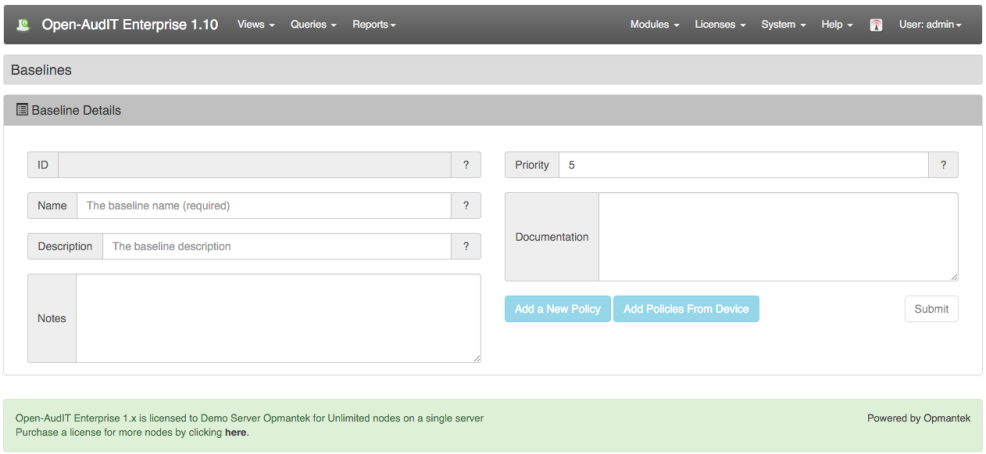
Initially you will need to create a baseline definition. You can reach the GUI for this in Open-AudIT Enterprise by clicking on menu -> Views -> Baselines.



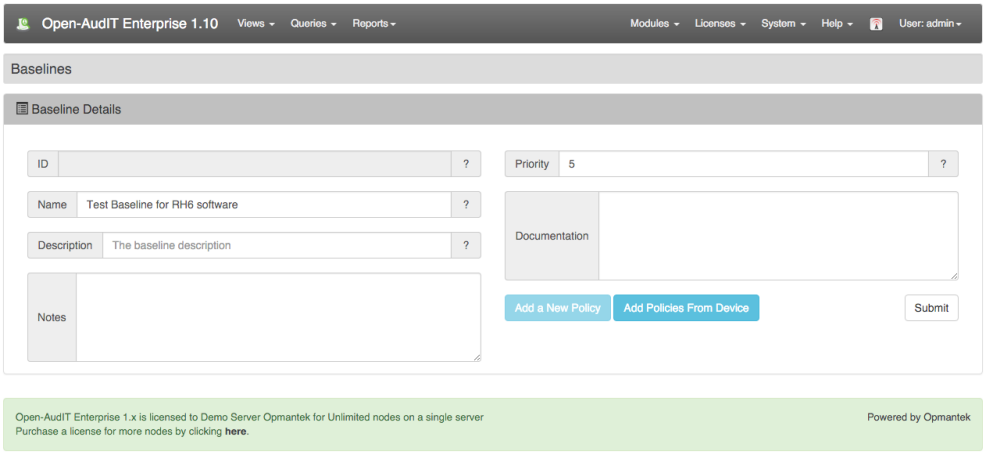

This will bring you to a listing of all your currently defined Baselines.



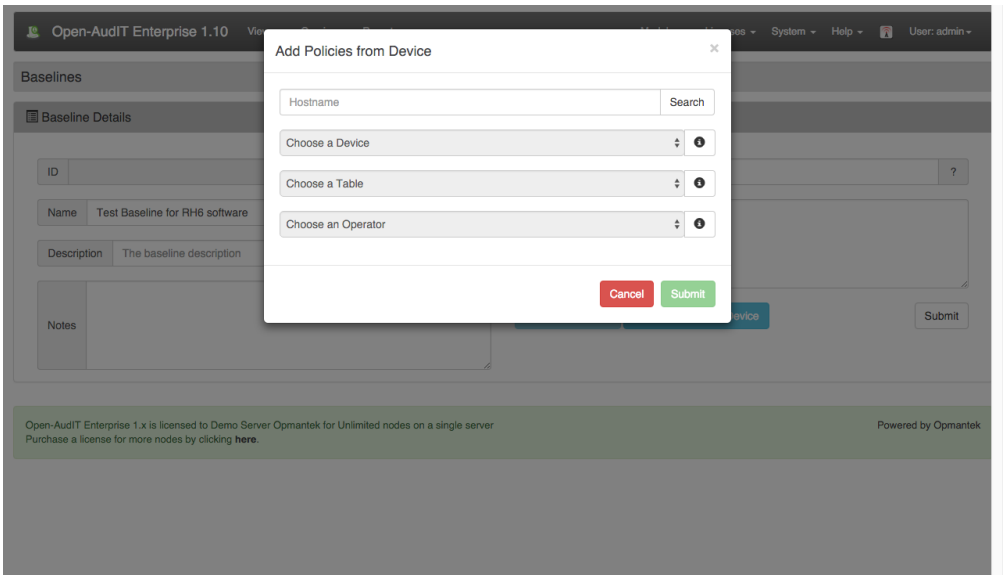

Clicking the Create button on the right side will send you to the Create Baseline screen.




You must enter a (preferably unique) name and then the "Import policy from device" button will be enabled.




Click this button and a modal will appear.




Type in a hostname and click Search to populate the dropdown to enable you to choose a device to extract policies from.

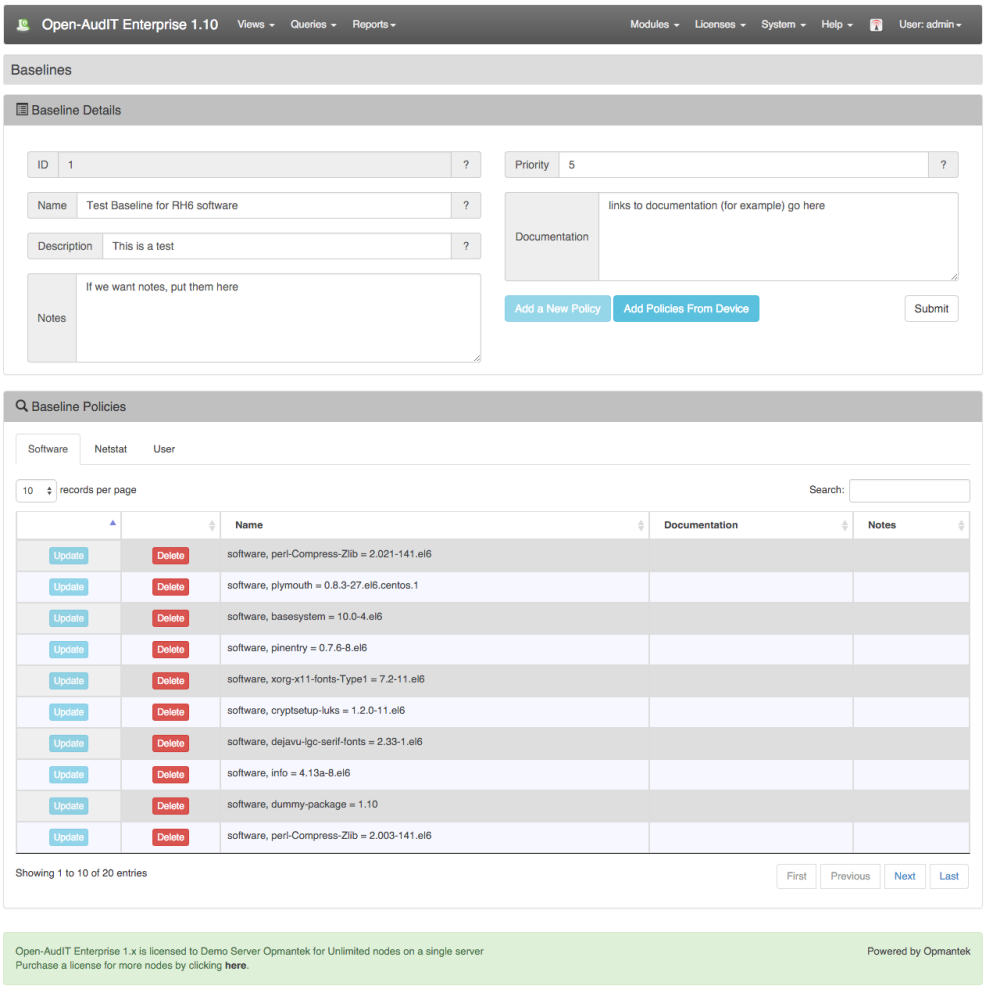
Choose a device from the drop down, a table from the dropdown and a comparison operator.

The comparison operator only really works for software at this stage. Both netstat ports and users work on the principle of it exists so it must match.

Software though compares the package name and version. If you would like the policy to test for SSH "at least" version 1.2.3, click the "Equals or Greater Than" comparison operator. Checking if a name and version match exactly, click the "Equals" operator.

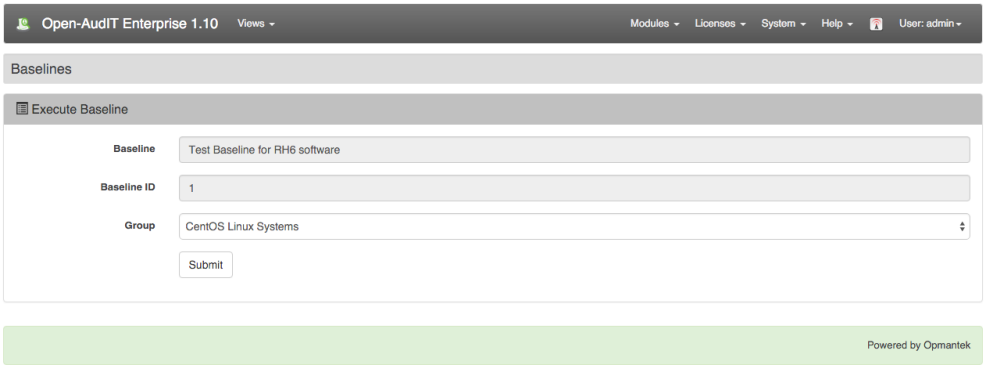
Once you click Submit, the baseline will be created and the policies will be added. You will then be sent to the Edit Baseline screen where you can add further policies from a device if required.

We plan to enable individual policy editing in a soon to be release version (post 1.10).

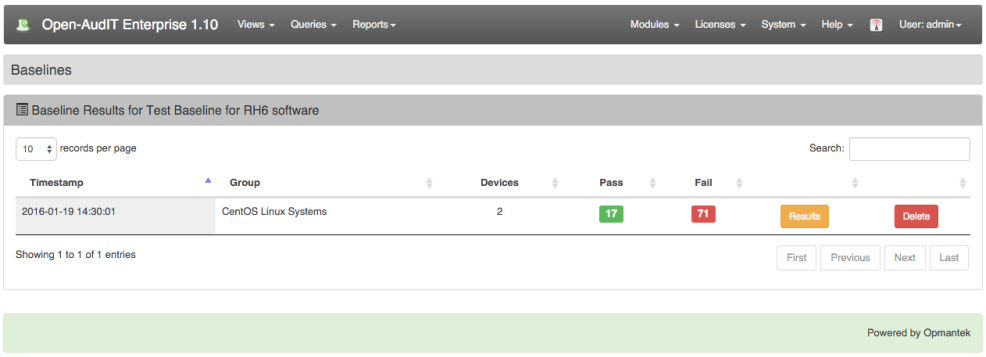



Once you have created your baseline and added some policies, you can execute it against a group of devices. When executing a baseline, bear in mind that baselines will only really provide useful information when the policies are matched to the specific operating system the baseline is executed against. IE - Don't create a baseline and add policies form a Windows Server and expect a group of devices containing Debian computers to match anything!

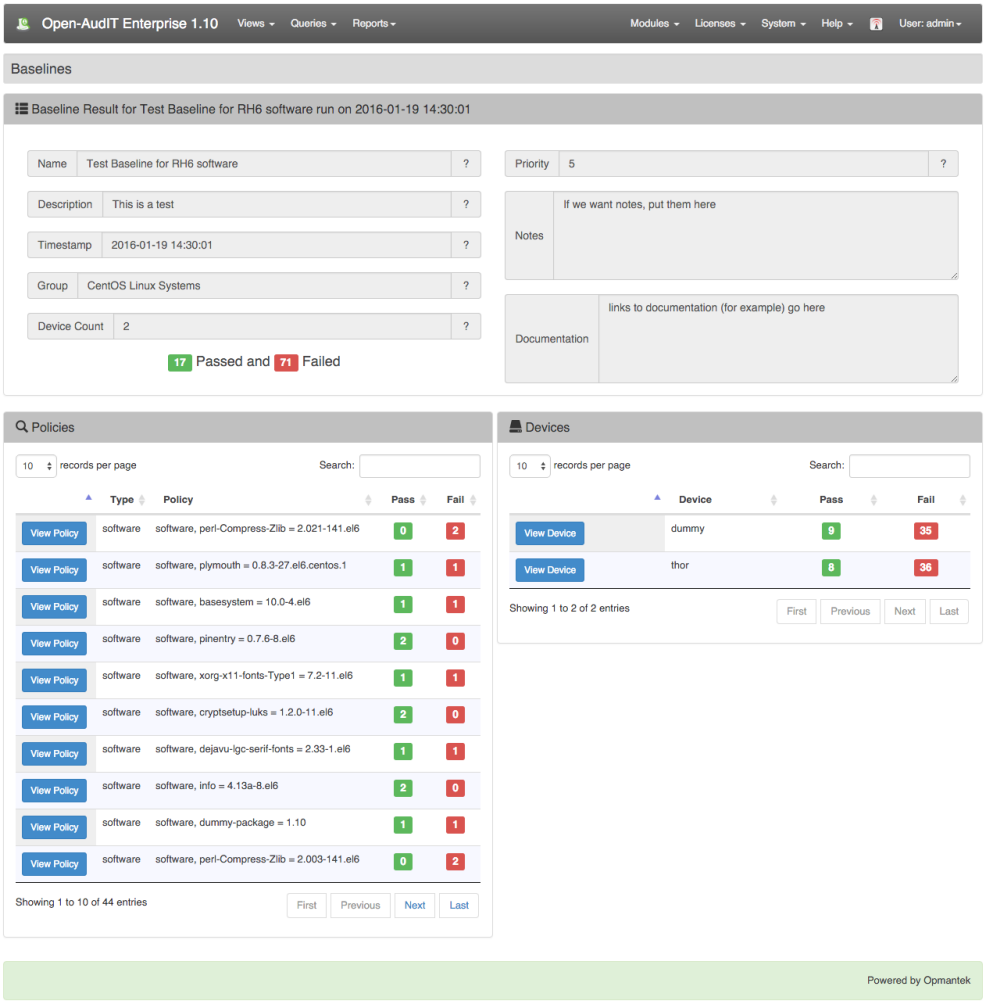
From the Baseline list page, click on the Execute button. The next screen will enable you to choose a group of devices to execute the baseline on.




Once a baseline has been executed you will be directed to the baseline results page. This page lists all the results from any given baseline.

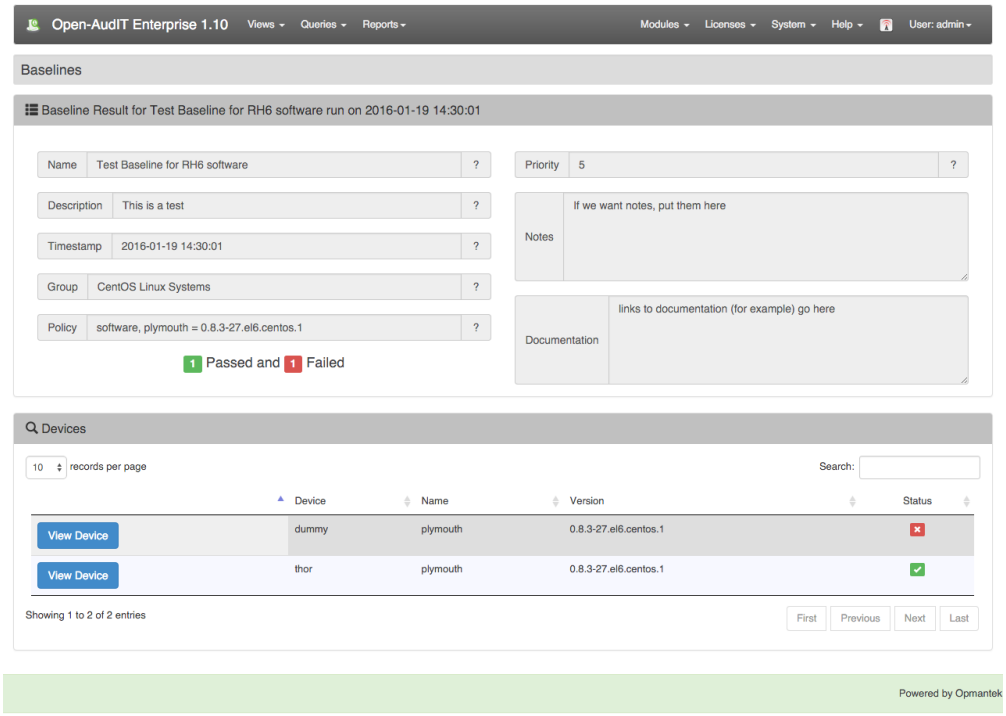



Clicking the Results button will show you the results from this particular baseline result.

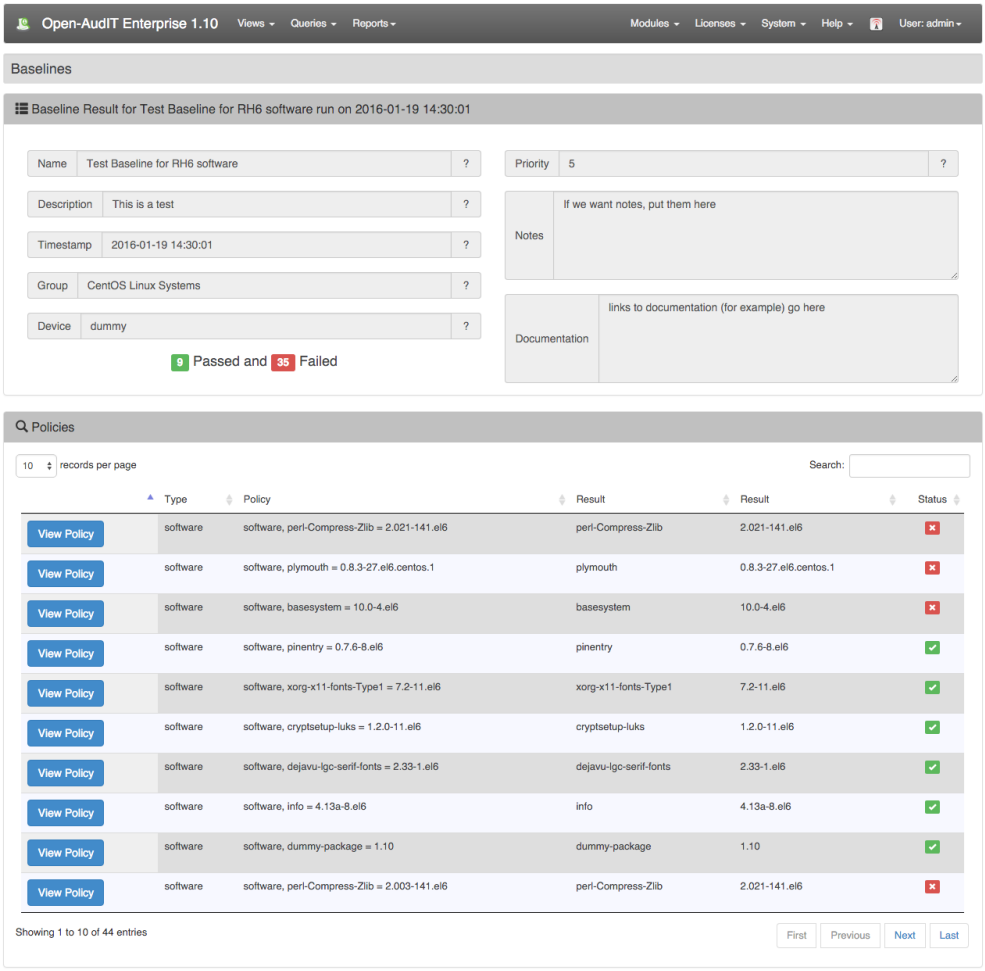



From the result page you can click an individual policy or device to view more details.

The policy detailed result is below.




The device detailed result is below.


Open-AudIT Enterprise 1.10
Views
Queries
Reports
Modules
Licenses
System
Help
User: admin
Baselines
Baseline Result for Test Baseline for RH6 software run on 2016-01-19 14:30:01
Name
Test Baseline for RH6 software
Description
This is a test
Timestamp
2016-01-19 14:30:01
Group
CentOS Linux Systems
Device
dummy
9 Passed and 35 Failed
Priority
5
Notes
If we want notes, put them here
Documentation
links to documentation (for example) go here
Policies
10 records per page
Search:
Type
Policy
Result
Result
Status
View Policy
software
software, perl-Compress-Zlib = 2.021-141.el6
perl-Compress-Zlib
2.021-141.el6
software, plymouth = 0.8.3-27.el6.centos.1
plymouth
0.8.3-27.el6.centos.1
software, basesystem = 10.0-4.el6
basesystem
10.0-4.el6
software, pinentry = 0.7.6-8.el6
pinentry
0.7.6-8.el6
software, xorg-x11-fonts-Type1 = 7.2-11.el6
xorg-x11-fonts-Type1
7.2-11.el6
software, cryptsetup-luks = 1.2.0-11.el6
cryptsetup-luks
1.2.0-11.el6
software, dejavu-lgc-serif-fonts = 2.33-1.el6
dejavu-lgc-serif-fonts
2.33-1.el6
software, info = 4.13a-8.el6
info
4.13a-8.el6
software, dummy-package = 1.10
dummy-package
1.10
software, perl-Compress-Zlib = 2.003-141.el6
perl-Compress-Zlib
2.021-141.el6
Showing 1 to 10 of 44 entries
First
Previous
Next
Last
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