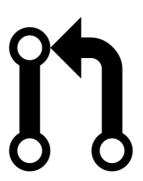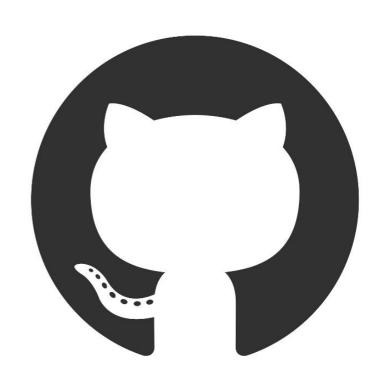# Proposal

Managing Debian / Ubuntu hosts with Katello (incl. Errata)
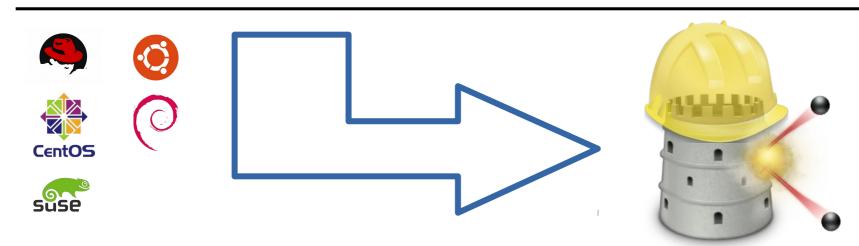
05.02.2019

Bernhard Suttner

Manage Debian / Ubuntu (01/2019)

☑ ☑   Provisioning hosts

☑ ☑   Configuration management (ansible, puppet, ...)

☑ ☑   Content management (through Content Views)

☑ ☒   Package management

☑ ☒   Patch management

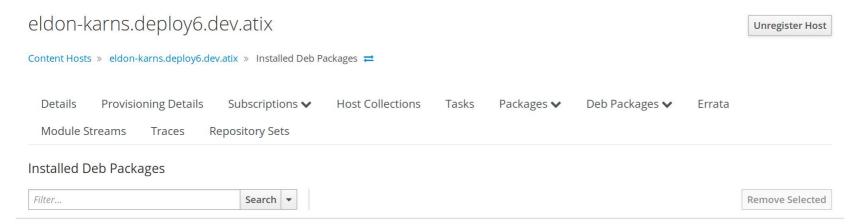# Package management

- View the list of installed
  deb packages

- Install / Update / Remove
  deb packages

- PR: https://github.com/Katello/katello/pull/7418
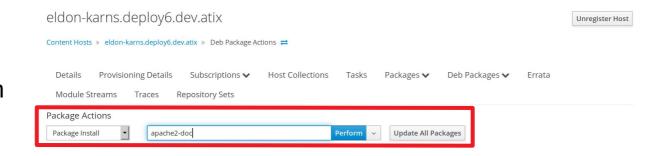
View Debian / Ubuntu package list

ATIX

eldon-karns.deploy6.dev.atix

[Unregister Host]

Content Hosts » eldon-karns.deploy6.dev.atix » Installed Deb Packages ⇄

Details   Provisioning Details   Subscriptions ⌄   Host Collections   Tasks   Packages ⌄   Deb Packages ⌄   Errata

Module Streams   Traces   Repository Sets

Installed Deb Packages

| Filter... | Search ⌄ | | Remove Selected |

0 of 439 Selected

☐	Installed Package	Version	Architecture
☐	accountsservice	0.6.45-1ubuntu1	amd64
☐	adduser	3.116ubuntu1	all
☐	amd64-microcode	3.20180524.1~ubuntu0.18.04.2	amd64
☐	apparmor	2.12-4ubuntu5.1	amd64
☐	apt	1.6.6	amd64
☐	apt-transport-katello	1.20.7-2	all
☐	apt-utils	1.6.6	amd64
☐	base-files	10.1ubuntu2.3	amd64
☐	base-passwd	3.5.44	amd64
☐	bash	4.4.18-2ubuntu1	amd64
☐	bash-completion	1:2.8-1ubuntu1	all
☐	bind9-host	1:9.11.3+dfsg-1ubuntu1.3	amd64

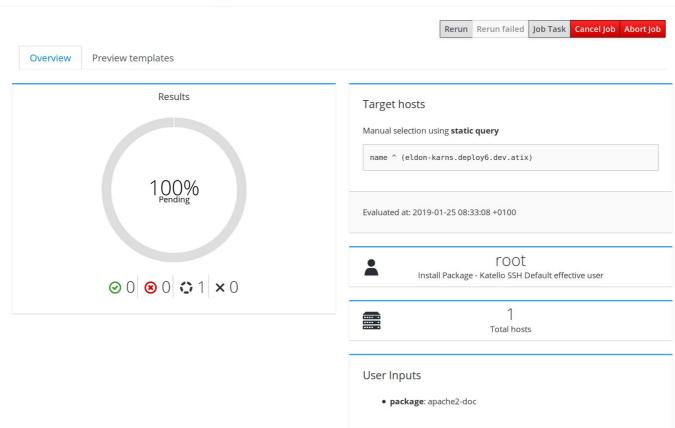# Install / Update / Remove packages

Prepare package installation

Package Installation

Patch management

- Security concepts:
  - Manual upgrades after DSA (Debian Security Advisory) / USN (Ubuntu Security Notice) reported
  - Automatically through package "unattended-upgrades" / or cronjob (apt-get update && apt-get upgrade) /
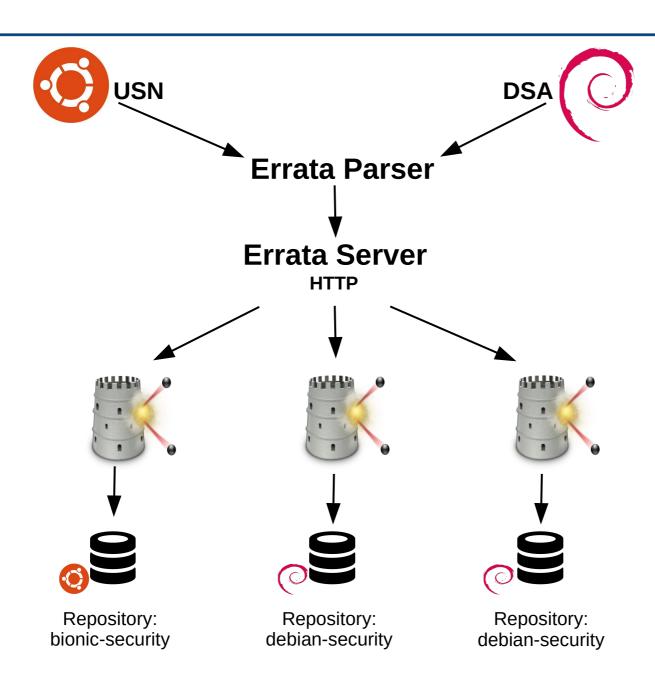
- Enterprise environment → "full control" preferred

- Errata ~= package insert (medicine)

- Errata concept "unknown" in Debian / Ubuntu

Challenge: Errata is part of the (yum) repository!

How to integrate the Errata in Debian / Ubuntu?

Errata for Debian / Ubuntu

USN

DSA

Errata Parser

Errata Server
HTTP

Repository:
bionic-security

Repository:
debian-security

Repository:
debian-security

https://github.com/ATIX-AG/errata_parser

https://github.com/ATIX-AG/errata_server
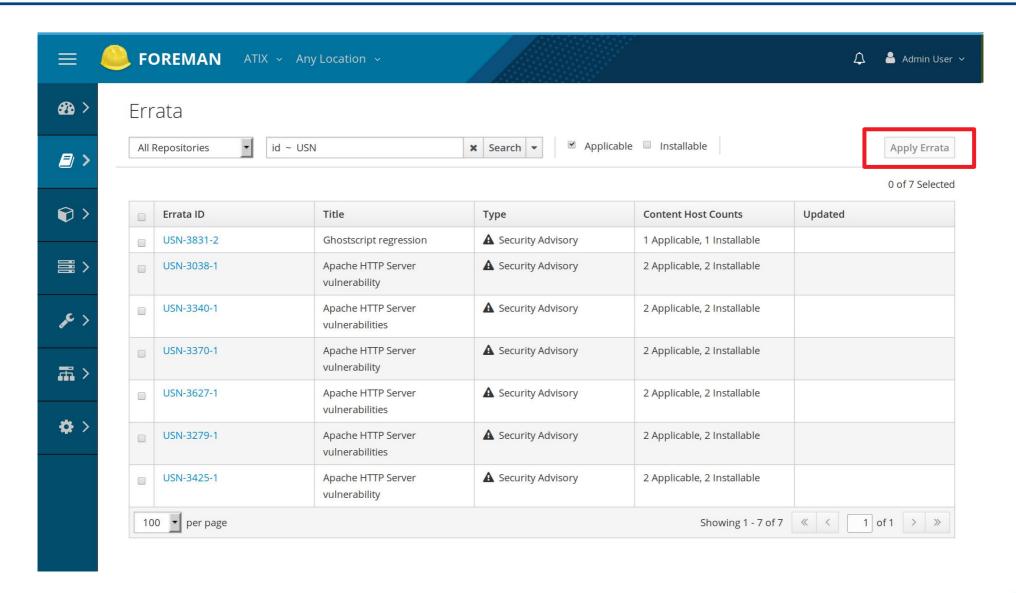
Errata URL config @ repository

ATIX

Errata overview

Errata details

ATIX

🔔   👤 Admin User ⌄

- 🕐 Monitor ›
- 📘 **Content** ›
- 📦 Containers ›
- 🗄 Hosts ›
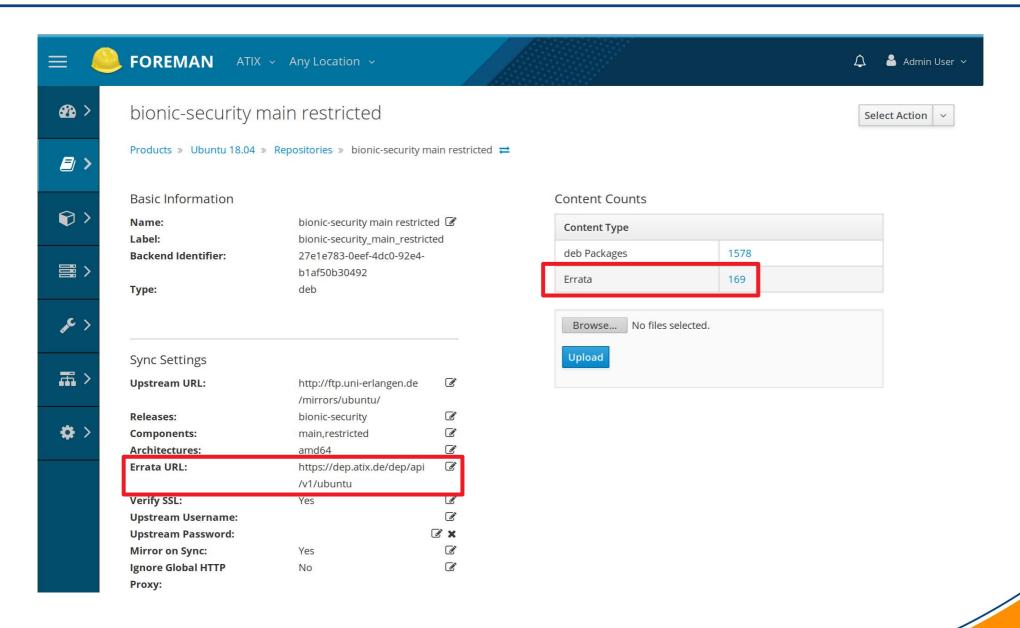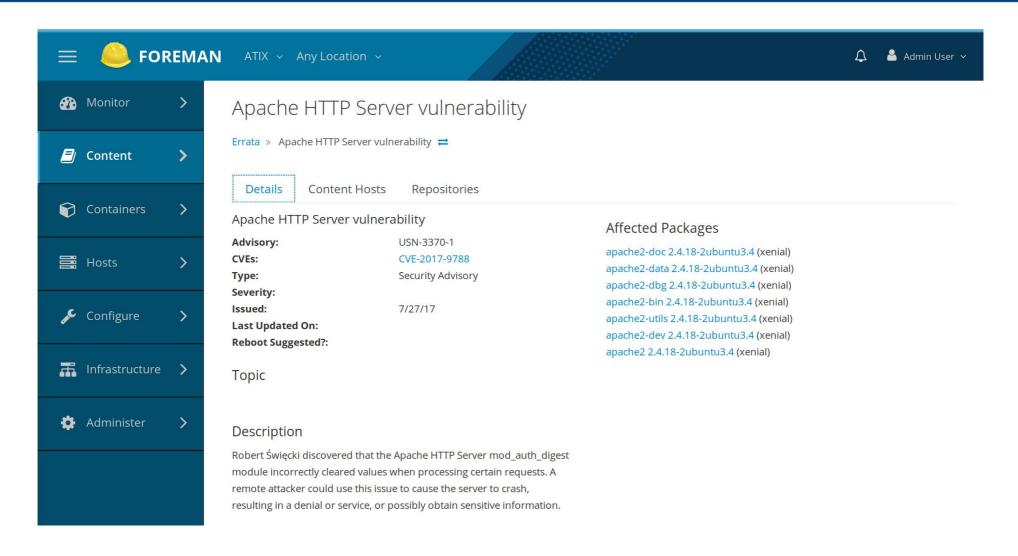- 🔧 Configure ›
- 🔀 Infrastructure ›
- ⚙ Administer ›

Apache HTTP Server vulnerability

Errata » Apache HTTP Server vulnerability ⇄

| Details | Content Hosts | Repositories |

Apache HTTP Server vulnerability

Advisory:	USN-3370-1
CVEs:	CVE-2017-9788
Type:	Security Advisory
Severity:	
Issued:	7/27/17
Last Updated On:	
Reboot Suggested?:	

Affected Packages

apache2-doc 2.4.18-2ubuntu3.4 (xenial)
apache2-data 2.4.18-2ubuntu3.4 (xenial)
apache2-dbg 2.4.18-2ubuntu3.4 (xenial)
apache2-bin 2.4.18-2ubuntu3.4 (xenial)
apache2-utils 2.4.18-2ubuntu3.4 (xenial)
apache2-dev 2.4.18-2ubuntu3.4 (xenial)
apache2 2.4.18-2ubuntu3.4 (xenial)

Topic

Description

Robert Święcki discovered that the Apache HTTP Server mod_auth_digest module incorrectly cleared values when processing certain requests. A remote attacker could use this issue to cause the server to crash, resulting in a denial or service, or possibly obtain sensitive information.

Prepare Errata installation

ATIX
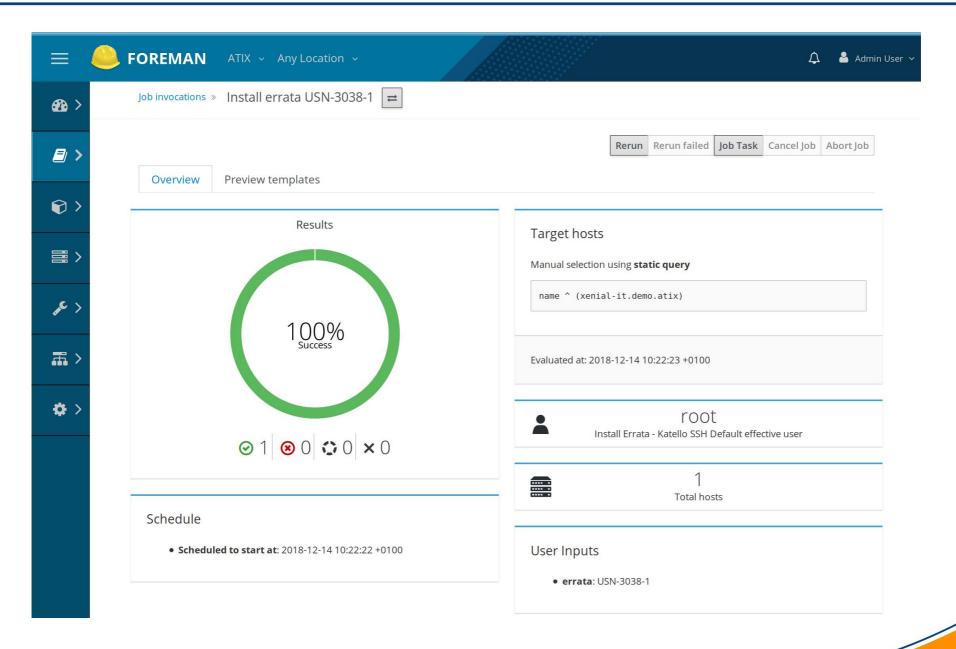
Name	Subscription Status	Installable Updates	OS	Lifecycle Environment	Content View	Registered	Last Checkin
bionic.demo.atix	✓	6 ⚠ 0 🐞 0 ➕ 0 📦	Ubuntu 18.04 LTS	Testing	Composite Ubuntu 18.04	2019-02-02 18:17:54 +0100	2019-02-02 18:17:57 +0100
rhel7-proxy.demo.atix	✓	2 ⚠ 11 🐞 0 ➕ 40 📦	RHEL Server 7	Testing	Composite RHEL 7	2019-01-23 17:41:30 +0100	2019-01-23 17:51:54 +0100
sles12sp3.demo.atix	✓	140 ⚠ 186 🐞 1 ➕ 621 📦	SLES 12 SP3	Testing	Composite SLES 12 SP3	2019-01-24 19:50:04 +0100	2019-01-24 19:50:30 +0100

bionic-it.demo.atix

[Unregister Host]

Content Hosts » bionic-it.demo.atix » Errata ⇄

Details   Provisioning Details   Subscriptions ⌄   Host Collections   Tasks   Packages ⌄   Deb Packages ⌄   **Errata**   Traces

Repository Sets

Installable Errata

ⓘ In order to manage errata on bionic-it.demo.atix, please install the katello-agent package by connecting directly to the host from a terminal and using yum.

[Current Lifecycle Envi ▾]   [Filter...]   [Search ▾]   [Apply Selected] [▾] [Recalculate]

0 of 1 Selected

☐	Type	Id	Title	Issued
☐	⚠ Security Advisory	USN-3831-2	Ghostscript regression	

[100 ▾] per page   Showing 1 - 1 of 1   « ‹   1 of 1   › »

Errata installation by REX

Let's discuss and get it DONE
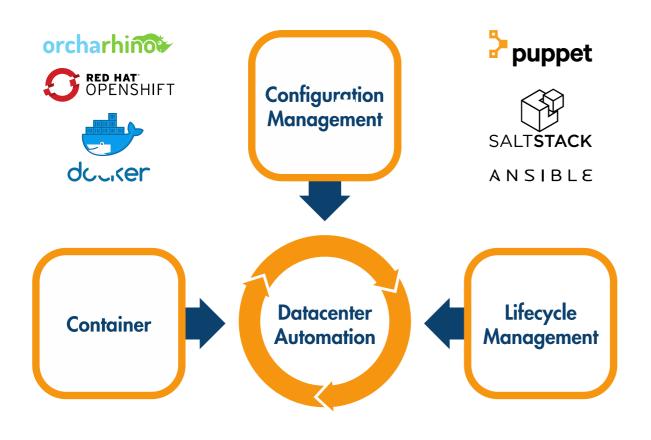
PR: https://github.com/Katello/katello/pull/7961

Merged **Katello maintainer** merged 42 commits into `Katello:master`

from `ATIX-AG:Errata-Support` 6 hours ago

Bernhard Suttner

IRC   sbernhard @ #theforeman-dev

https://github.com/sbernhard

@_sBernhard

suttner@atix.de