

Foreman, o projeto (Upstream) do Red Hat Satellite

ConFLOSS - Agosto de 2025

Waldirio M. Pinheiro (*PSME @ Red Hat Canada*)

Agenda

- Sobre
- Big Question
- Projeto vs Produto / Upstream vs Downstream
- Comparativo do RH Satellite vs Foreman Turbinado
- Sem Cobranca, Sem Custo, Upstream++
- Funcionalidades
- Jobs / Oportunidades

Sobre

Sobre

- Waldirio / Wally
- Casado (Linda Família)
- Brasileiro no Canada desde 2018
- Apaixonado por Tecnologia/OpenSource, desde 1996
- Shadowman Tattoo
- Escritor do livro Spacewalk (Upstream do RH Satellite 5)
- Zona de Conforto. Fuja!
- Seja Humilde, lembre-se de suas raízes ... sempre
- Compartilhar é um ato de amor! [YouTube](#) & [LinkedIn](#)



Big Question

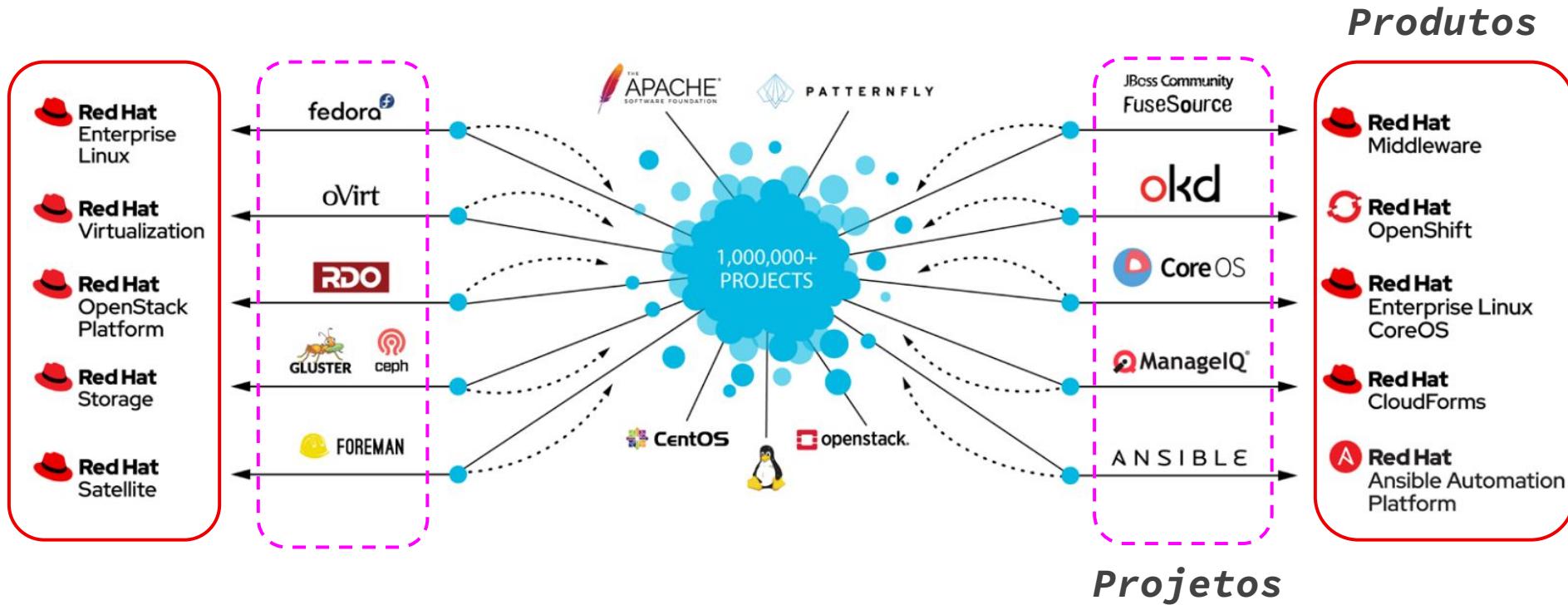
Big Question

Como posso aplicar para a vaga, se nao tenho
experiencia?

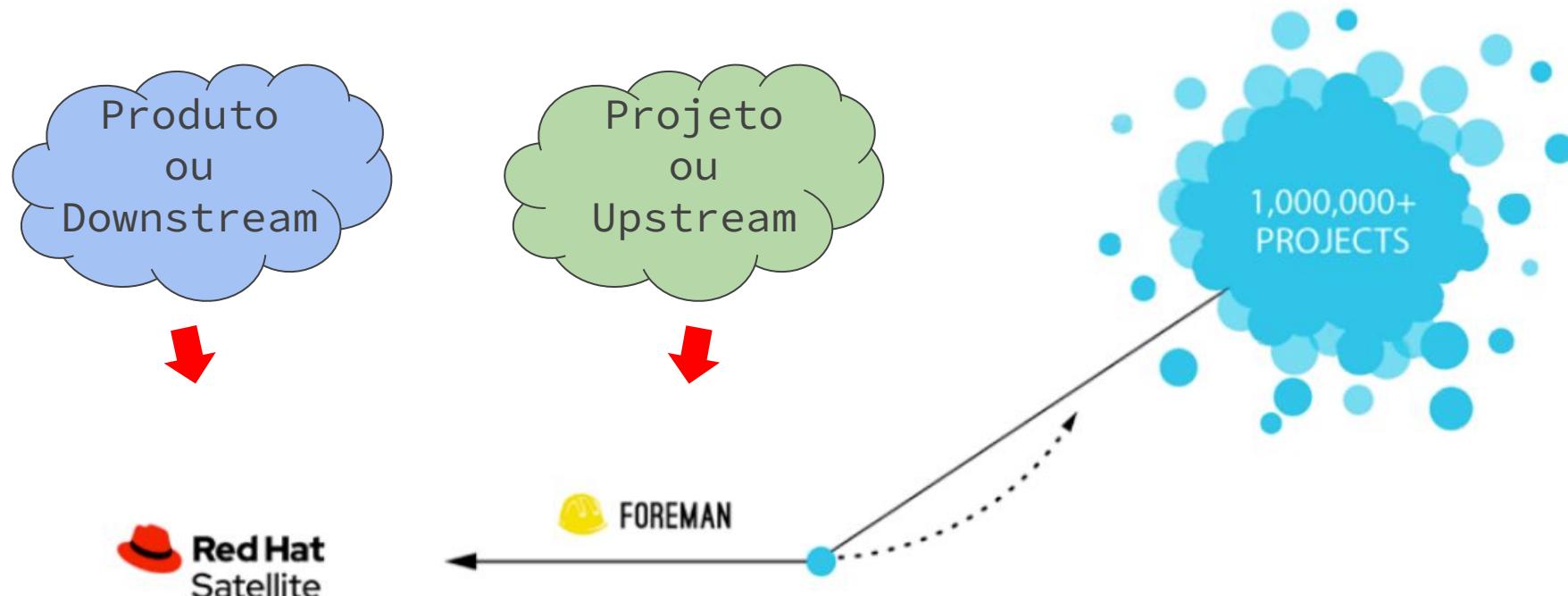
Como posso ter experiencia, se nao tenho **\$\$** para
comprar uma subscrição (Satellite, OpenShift, ...)?

Projeto vs Produto / Upstream vs Downstream

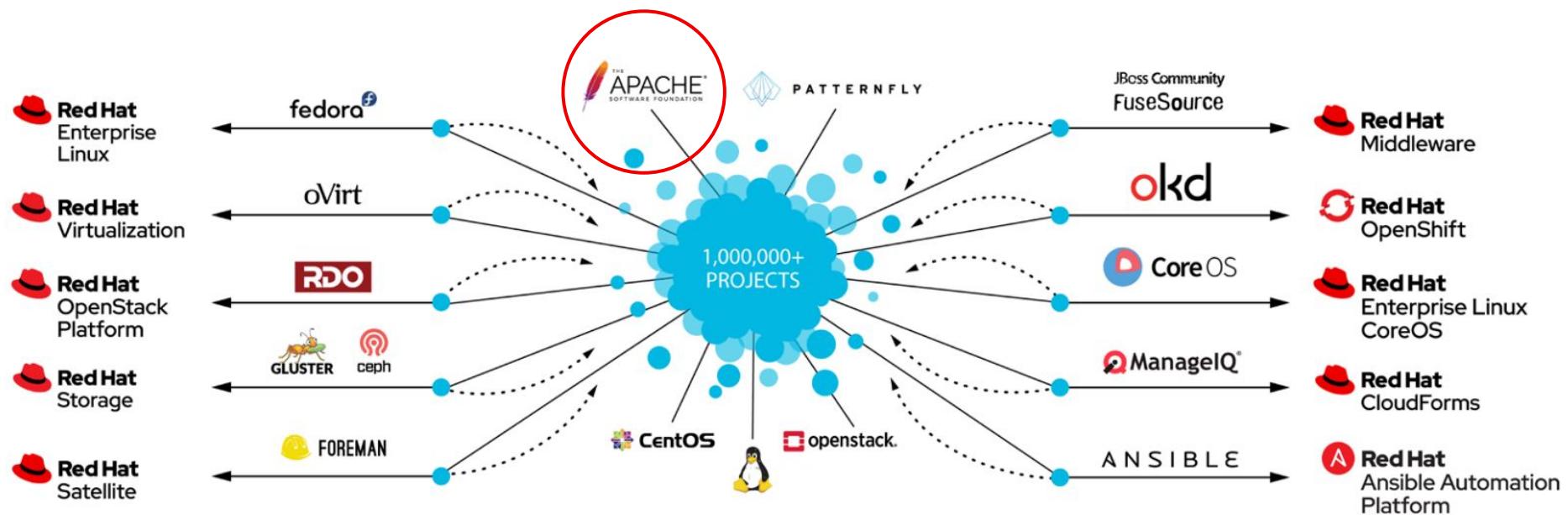
Projeto vs Produto / Upstream vs Downstream



Projeto vs Produto / Upstream vs Downstream



Projeto vs Produto / Upstream vs Downstream



RH Satellite vs Foreman Turbinado

Comparativo do RH Satellite vs Foreman Turbinado



Welcome

Log in to your account

Username

Password

Log In

Version 6.17.2

Comparativo do RH Satellite vs Foreman Turbinado

Welcome

Log in to your account

Username

Password



Version 3.15.0

Comparativo do RH Satellite vs Foreman Turbinado

The screenshot shows the Red Hat Satellite interface with the following sections:

- Host Collections**: Lists three host collections: bash_hc (2 content hosts), new_hc_bash_test (2 content hosts), and hc_video (0 content hosts).
- Sync Overview**: Shows sync status for two products: Red Hat Enterprise Linux ... (Syncing Complete, about 13 hours ago) and zabbix (Syncing Complete, 17 days ago).
- Content Views**: Lists content views and their status:

Content View	Task	Status
ccv_acme_rhel8 3.0	Published new version	Success on 15 Jul 15:41
cv_rhel8 3.0	Published new version	Success on 15 Jul 15:41
ccv_acme_rhel8 2.0	Published new version	Success on 15 Jul 15:40
cv_rhel8 2.0	Published new version	Success on 15 Jul 15:39
cv_rhel9_new 1.0	Published new version	Success on 09 Jun 16:33
ccv_acme_rhel8 1.0	Published new version	Success on 09 May 19:32
- Latest Errata**: Lists latest errata by type and ID:

Type	Errata
security	RHSA-2025:13604 (1 Host)
security	RHSA-2025:13602 (2 Hosts)
security	RHSA-2025:13589 (1 Host)
security	RHSA-2025:13598 (1 Host)
security	RHSA-2025:13429 (1 Host)
security	RHSA-2025:13428 (2 Hosts)

Comparativo do RH Satellite vs Foreman Turbinado

The image shows a side-by-side comparison of two software interfaces: Red Hat Satellite (left) and Foreman Turbinado (right).

Red Hat Satellite (Left):

- Header:** Red Hat Satellite, ACME, New West.
- Sidebar:** Search and go, Monitor, Dashboard, Host Statuses, Facts, Audits, Jobs, Reports, Satellite Tasks, Content, Hosts, Insights, Configure, Infrastructure, Administer.
- Content Area:** Overview, Search and go, Monitor, Dashboard, Host Statuses, Facts, Audits, Jobs, Reports, Foreman Tasks, Content, Hosts, Configure, Infrastructure, Administrator.

Foreman Turbinado (Right):

- Header:** Default Organization, Default Location, Admin User.
- Content Area:** Overview, Search, Generated at Aug 12, 04:56 PM, Manage, Documentation.
- Widgets:**
 - New Hosts table:

Host	Operating System	Owner	Created	Installed
foreman00-node01-ol9.king.lab	OracleLinux 9.5	Admin User	7 hours ago	7 hours ago
foreman00-node02-al9.king.lab	AlmaLinux 9.6	Admin User	7 hours ago	1 hour ago
foreman00-node03-fedoraproject.org	Fedora 42	Admin User	7 hours ago	1 hour ago
foreman00.king.lab	CentOS Stream...		23 hours ago	N/A

 - Host Configuration Chart for All: A donut chart showing 100% (No report).
 - Latest Errata table:

Type	Errata
bugfix	FEDORA-2025-dde3c4a0f1 (1 Host)
bugfix	FEDORA-2025-483b46505e (1 Host)
bugfix	FEDORA-2025-8a1344d33 (1 Host)
unspecified	FEDORA-2025-7c8a85ba08 (1 Host)
enhancement	FEDORA-2025-b8d5342e93 (1 Host)
unspecified	FEDORA-2025-7780629e7b (1 Host)

 - Sync Overview table:

Product	Status	Finished
Fedora	Syncing Complete.	about 15 hours ago
OracleLinux	Syncing Complete.	about 15 hours ago
AlmaLinux	Syncing Complete.	about 15 hours ago
Zabbix	Syncing Complete.	about 15 hours ago

Comparativo do RH Satellite vs Foreman Turbinado

- Red Hat Satellite
 - Subscricao
 - Base de Conhecimento
 - Atualizacoes
 - Profissionais para lhe prestar o suporte
 - SLA
 - Testado e Homologado (HW e SW)
 - Pronto para uso

Comparativo do RH Satellite vs Foreman Turbinado

- Foreman + Katello + Plugins adicionais (Turbinado)
 - Sem Subscricao, basta instalar e usar
 - 100% Comunidade
 - Fixes de acordo com a demanda e disponibilidade
 - Sem suporte
 - Sem SLA
 - Testes limitados ao projeto / componentes
 - Componentes instalados de acordo com o sysadmin

Comparativo do RH Satellite vs Foreman Turbinado

	Satellite	Foreman
Custo	Subscricao	Free of Charges
Fixes OnLine	Base de Conhecimento	100% Comunidade
Patches/Fixes	Updates pela Red Hat	De acordo com a disponibilidade dos devs
Suporte	Red Hat	100% Comunidade
SLA?	Sim	Sem SLA
Coverage	Testes Variados / HW / SW / etc	Testes limitados
Implementacao	Pronto para uso. A maioria dos componentes já instalados e prontos para uso.	Pronto para uso, com componentes basicos. O sysadmin pode adicionar os demais componentes <i>on-demand</i> .

Sem Cobrança, Sem Custo, Upstream++

Sem Cobrança, Sem Custo, Upstream++

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<https://theforeman.org/>

FOREMAN

Foreman is a complete lifecycle management tool for physical and virtual servers. We give system administrators the power to easily automate repetitive tasks, quickly deploy applications, and proactively manage servers, on-premise or in the cloud.

[GET STARTED](#)[LEARN MORE](#)

Latest versions: 3.15.0 / 3.14.0

Sem Cobrança, Sem Custo, Upstream++

Quickstart Guide

The Foreman installer is a collection of Puppet modules that installs everything required for a full working Foreman setup. It uses native OS packaging (e.g. RPM and .deb packages) and adds necessary configuration for the complete installation.

Components include the Foreman web UI, Smart Proxy, a Puppet server, and optionally TFTP, DNS and DHCP servers. It is configurable and the Puppet modules can be read or run in "no-op" mode to see what changes it will make.

The installation will require 4GB of memory, see [System Requirements](#) for more information.

Supported platforms

- Enterprise Linux 9, x86_64
- Debian 11 (Bullseye), amd64
- Debian 12 (Bookworm), amd64
- Ubuntu 22.04 (Jammy), amd64

Enterprise Linux

The Foreman packages and installer are tested on AlmaLinux 8, AlmaLinux 9, CentOS Stream 8 and CentOS Stream 9, but other RHEL derivatives can work because they're similar. Sometimes additional work may be needed. For any queries for these platforms raise a question in [discourse support section](#)

Installation

The [Foreman installer](#) uses Puppet (6 or later required) to install Foreman. This guide assumes that you have a newly installed operating system, on which the installer will setup Foreman, a Puppet server, and the [Smart Proxy](#) by default. It's not advisable to follow the steps below on an existing system, since the installer will affect the configuration of several components.

If you want to manage content (for example, RPMs, Kickstart trees, ISO and KVM images, OSTree content, and more) with Foreman please follow the [Katello](#) installation instructions. If you are a new user, ensure that you familiarize yourself with [Katello](#) and decide whether you want to use its features because installing Katello on top of an existing Foreman is unsupported. Note that you cannot install Katello on Debian systems.

Select operating system

To provide specific installation instructions, please select your operating system: [-- select operating system --](#)

Sem Cobrança, Sem Custo, Upstream++

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- Ubuntu 22.04 (Jammy), amd64

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Sem Cobrança, Sem Custo, Upstream++

em ✓ -- select operating system --

Enterprise Linux 9

Debian 12 (Bookworm)

Ubuntu 22.04 (Jammy)

Sem Cobrança, Sem Custo, Upstream++

Select operating system

To provide specific installation instructions, please select your operating system: Enterprise Linux 9

em ✓ -- select operat

Enterprise Linux

Debian 12 (Boo

Ubuntu 22.04 (

Repositories

Enable Puppet's 8.x repository:

```
sudo dnf -y install https://yum.puppet.com/puppet8-release-el-9.noarch.rpm
```

Enable the Foreman repositories:

```
sudo dnf -y install https://yum.theforeman.org/releases/3.15/el9/x86_64/foreman-release.rpm
```

Downloading the installer

```
sudo dnf -y install foreman-installer
```

Running the installer

The installation run is non-interactive, but the configuration can be customized by supplying any of the options listed in `foreman-installer --help`, or by running `foreman-installer -i` for interactive mode. More examples are given in the [Installation Options](#) section. Adding `-v` will disable the progress bar and display all changes. To run the installer, execute:

```
sudo foreman-installer
```

After it completes, the installer will print some details about where to find Foreman and the Smart Proxy. Output should be similar to this:

```
* Foreman is running at https://theforeman.example.com
Initial credentials are admin / 3ekw5xtyXCoXxS29
* Foreman Proxy is running at https://theforeman.example.com:8443
The full log is at /var/log/foreman-installer/foreman-installer.log
```

Sem Cobrança, Sem Custo, Upstream++

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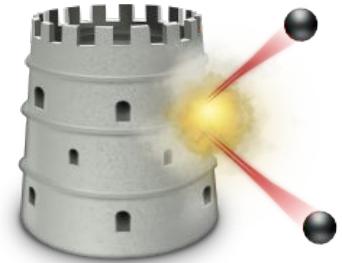
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Select operating system

To provide specific installation instructions, please select your operating system:

Sem Cobrança, Sem Custo, Upstream++

Contribua com o Projeto! Vocês serão muito bem vindos!



<https://theforeman.org/>
<https://github.com/theforeman/>

Sem Cobrança, Sem Custo, Upstream++

The screenshot shows a web browser window with the URL theforeman.org in the address bar. The page has a dark blue header with navigation links: "GET STARTED", "GET HELP", "GET INVOLVED", and "NEWS". A "Community" dropdown menu is open under the "GET INVOLVED" link, containing three items: "Community", "Report a bug", and "Contribute". A red arrow points to the "Community" link in the dropdown. The main content area features a large yellow hard hat icon and the word "FOREMAN" in white. Below the title, a paragraph describes Foreman as a lifecycle management tool for physical and virtual servers, emphasizing automation, deployment, and proactive management. At the bottom, there are two buttons: "GET STARTED" (in a light blue box) and "LEARN MORE" (in a dark blue box). The footer indicates the latest versions are 3.15.0 and 3.14.0.

theforeman.org

Incognito (2)

GET STARTED ▾

GET HELP ▾

GET INVOLVED ▾

NEWS ▾

Community

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GET STARTED

LEARN MORE

Latest versions: 3.15.0 / 3.14.0

Funcionalidades

Gerenciamento de Conteúdo

Funcionalidades - Gerenciamento de Conteúdo

Sync Status

					<input type="button" value="Collapse All"/>	<input type="button" value="Expand All"/>	<input type="button" value="Select None"/>	<input type="button" value="Select All"/>	<input type="checkbox"/> Active only
PRODUCT	START TIME	DURATION	DETAILS		RESULT				
▼ Fedora									
<input type="checkbox"/> 42_Updates	about 14 hours ago	7 minutes	Added Rpm: 18485, Errata: 2517		Syncing Complete.				
<input type="checkbox"/> 42_Releases	about 14 hours ago	20 minutes	Added Rpm: 76879		Syncing Complete.				
▼ OracleLinux									
<input type="checkbox"/> 9_BaseOS_Latest	about 14 hours ago	6 minutes	Added Rpm: 12348, Errata: 1717		Syncing Complete.				
<input type="checkbox"/> 9_AppStream_Latest	about 14 hours ago	13 minutes	Added Rpm: 27575, Modulemd: 92, Errata: 5214		Syncing Complete.				
▼ AlmaLinux									
<input type="checkbox"/> 9_AppStream x86_64	about 14 hours ago	3 minutes	Added Rpm: 7478, Modulemd: 23, Errata: 1037		Syncing Complete.				
<input type="checkbox"/> 9_BaseOS x86_64	about 14 hours ago	4 minutes	Added Rpm: 2248, Errata: 275		Syncing Complete.				
▼ Zabbix									
<input type="checkbox"/> 7.4_alma 9 x86_64	about 14 hours ago	less than a minute	Added Rpm: 52		Syncing Complete.				
<input type="checkbox"/> 7.4_oracle 9 x86_64	about 14 hours ago	1 minute	Added Rpm: 52		Syncing Complete.				

Funcionalidades - Gerenciamento de Conteúdo

Sync Status

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▼ Zabbix			
<input type="checkbox"/> 7.4_alma 9 x86_64	about 14 hours ago	less than a minute	Added Rpm: 52
<input type="checkbox"/> 7.4_oracle 9 x86_64	about 14 hours ago	1 minute	Added Rpm: 52

PRODUCT
▼ Fedora
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<input type="checkbox"/> 9_AppStream x86_64
<input type="checkbox"/> 9_BaseOS x86_64
▼ Zabbix
<input type="checkbox"/> 7.4_alma 9 x86_64
<input type="checkbox"/> 7.4_oracle 9 x86_64

Funcionalidades - Gerenciamento de Conteúdo

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PRODUCT	START TIME
▼ Fedora	<input type="checkbox"/> 42_Updates about 14 hours ago
	<input type="checkbox"/> 42_Releases about 14 hours ago
▼ OracleLinux	<input type="checkbox"/> 9_BaseOS_Latest about 14 hours ago
	<input type="checkbox"/> 9_AppStream_Latest about 14 hours ago
▼ AlmaLinux	<input type="checkbox"/> 9_AppStream x86_64 about 14 hours ago
	<input type="checkbox"/> 9_BaseOS x86_64 about 14 hours ago
▼ Zabbix	<input type="checkbox"/> 7.4_alma 9 x86_64 about 14 hours ago
	<input type="checkbox"/> 7.4_oracle 9 x86_64 about 14 hours ago

DETAILS
Added Rpm: 18485, Errata: 2517
Added Rpm: 76879
Added Rpm: 12348, Errata: 1717
Added Rpm: 27575, Modulemds: 92, Errata: 5214
Added Rpm: 7478, Modulemds: 23, Errata: 1037
Added Rpm: 2248, Errata: 275
Added Rpm: 52
Added Rpm: 52

PRODUCT
▼ Fedora
<input type="checkbox"/> 42_Updates
<input type="checkbox"/> 42_Releases
▼ OracleLinux
<input type="checkbox"/> 9_BaseOS_Latest
<input type="checkbox"/> 9_AppStream_Latest
▼ AlmaLinux
<input type="checkbox"/> 9_AppStream x86_64
<input type="checkbox"/> 9_BaseOS x86_64
▼ Zabbix
<input type="checkbox"/> 7.4_alma 9 x86_64
<input type="checkbox"/> 7.4_oracle 9 x86_64

Funcionalidades - Gerenciamento de Conteúdo

Custom Product

Products > Custom Product > Repositories > New Repository

Details **Repositories** Tasks

New Repository

Basic Information

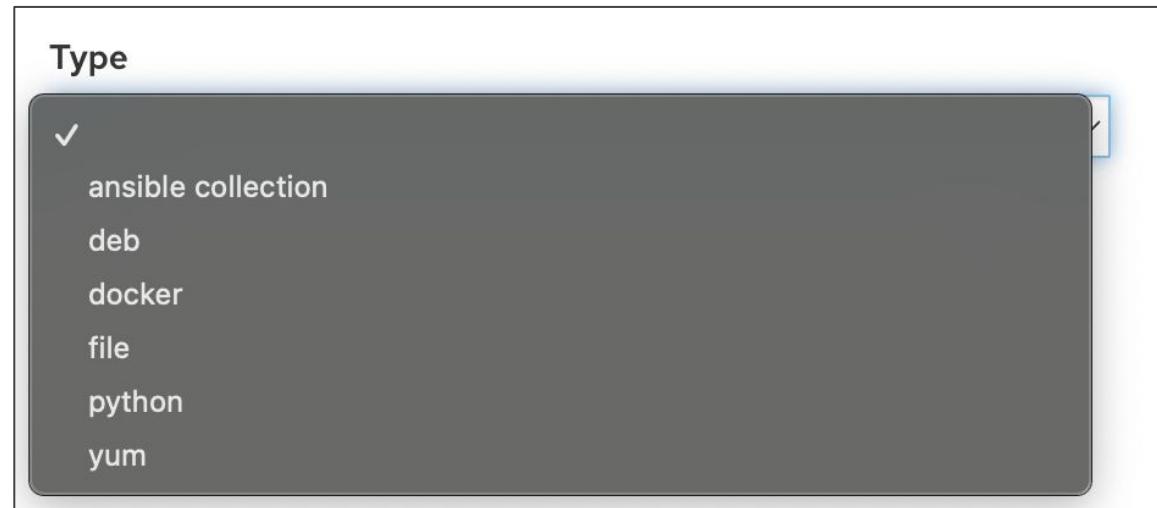
Name

Label

Description

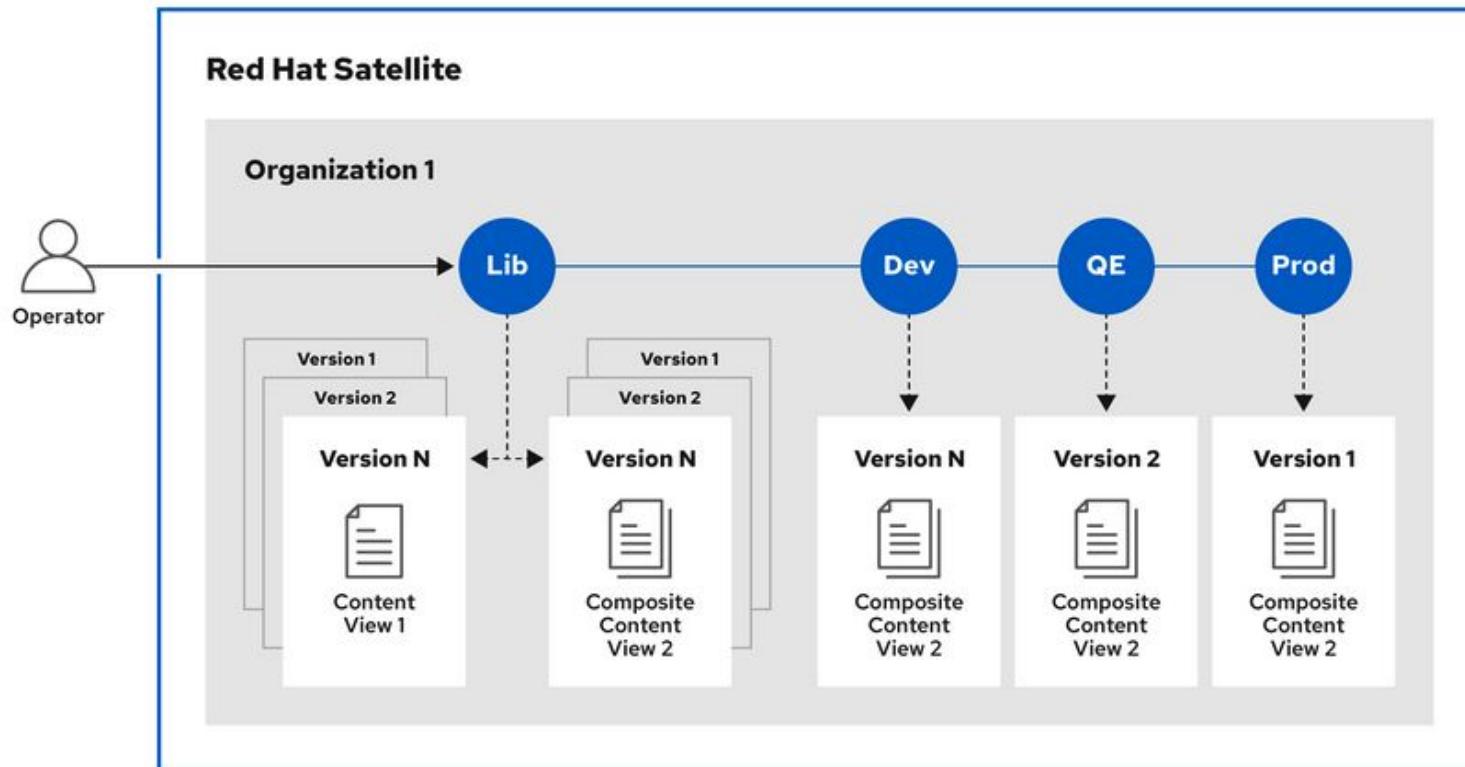
Type

- ansible collection
- deb
- docker
- file
- python
- yum



Gerenciamento de Ciclo de Vida

Funcionalidades - Gerenciamento de Ciclo de Vida



Funcionalidades - Gerenciamento de Ciclo de Vida

Content views

- 4 Content views [?](#)
- 3 Composite content views [?](#)
- 0 Rolling content views [?](#)

Search→↻▼

Create content view1 - 7 of 7<>

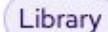
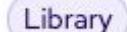
Type	Name	Last published	Last task	Latest version	⋮
	ccv_alma_9_ACME	August 12, 2025 at 08:38 AM	about 7 hours ago	Version 1.0	
	ccv_fedora_42_ACME	August 12, 2025 at 08:40 AM	about 7 hours ago	Version 1.0	
	ccv_ol_9_ACME	August 12, 2025 at 08:39 AM	about 7 hours ago	Version 1.0	
	cv_3rd_party	August 12, 2025 at 08:36 AM	about 7 hours ago	Version 1.0	
	cv_almalinux_9_latest	August 12, 2025 at 08:35 AM	about 7 hours ago	Version 1.0	
	cv_fedora_42	August 12, 2025 at 08:33 AM	about 7 hours ago	Version 1.0	
	cv_oraclelinux_9_latest	August 12, 2025 at 08:35 AM	about 7 hours ago	Version 1.0	

Funcionalidades - Gerenciamento de Ciclo de Vida

Content views

4 Content views 

3 Composite content views 

Type	Name	Last published	Last task	Latest version	Actions
	ccv_alma_9_ACME	August 12, 2025 at 08:38 AM	 about 7 hours ago	Version 1.0	   
	cv_almalinux_9_latest	August 12, 2025 at 08:35 AM	 about 7 hours ago	Version 1.0	
	ccv_fedora_42_ACME	August 12, 2025 at 08:40 AM	 about 7 hours ago	Version 1.0	   
	ccv_ol_9_ACME	August 12, 2025 at 08:39 AM	 about 7 hours ago	Version 1.0	   
	cv_3rd_party	August 12, 2025 at 08:36 AM	 about 7 hours ago	Version 1.0	
	cv_almalinux_9_latest	August 12, 2025 at 08:35 AM	 about 7 hours ago	Version 1.0	
	cv_fedora_42	August 12, 2025 at 08:33 AM	 about 7 hours ago	Version 1.0	
	cv_oraclelinux_9_latest	August 12, 2025 at 08:35 AM	 about 7 hours ago	Version 1.0	



Funcionalidades - Gerenciamento de Ciclo de Vida

cv_almalinux_9_latest

[Publish new version](#)

[View tasks](#)

⋮

Details **Versions** Repositories Filters History

Compare 1-1 of 1

Version	Environments	Packages	Errata	Additional content	Description	⋮
<input type="checkbox"/> Version 1.0	Library	about 7 hours ago	9711	1097 (1096, 1, 0)	23 Module streams	No description

Funcionalidades - Gerenciamento de Ciclo de Vida

cv_almalinux_9_latest 

[Publish new version](#) [View tasks](#) 

Details **Versions** Repositories Filters History

Version 1.0  

No description 



Repositories	2	Name	Type	Product	Content
RPM Packages	9711	9_AppStream x86_64	Yum	AlmaLinux	7478 RPM packages 23 Module streams 1037 Errata 63 Package groups
RPM Package Groups	97	9_BaseOS x86_64	Yum	AlmaLinux	2248 RPM packages 275 Errata 34 Package groups
Errata	1097				
Module Streams	23				

Funcionalidades - Gerenciamento de Ciclo de Vida

cv_almalinux_9_latest

Publish new version View tasks

Repositories 2

RPM Packages 971

RPM Package Groups 97

Errata 1097

Module Streams 23

Search

1 - 2 of 2

Name	Type	Product	Content
9_AppStream x86_64	Yum	AlmaLinux	7478 RPM packages 23 Module streams 1037 Errata 63 Package groups
9_BaseOS x86_64	Yum	AlmaLinux	2248 RPM packages 275 Errata 34 Package groups

Errata 1097

9_BaseOS x86_64 Yum AlmaLinux 2248 RPM packages
275 Errata
34 Package groups

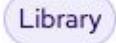
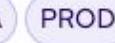
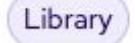
Module Streams 23

Funcionalidades - Gerenciamento de Ciclo de Vida

Content views

4 Content views 

3 Composite content views 

Type	Name	Last published	Last task	Latest version	Actions
	ccv_alma_9_ACME	August 12, 2025 at 08:38 AM	 about 7 hours ago	Version 1.0	   
	cv_almalinux_9_latest	August 12, 2025 at 08:35 AM	 about 7 hours ago	Version 1.0	
	ccv_fedora_42_ACME	August 12, 2025 at 08:40 AM	 about 7 hours ago	Version 1.0	   
	ccv_ol_9_ACME	August 12, 2025 at 08:39 AM	 about 7 hours ago	Version 1.0	   
	cv_3rd_party	August 12, 2025 at 08:36 AM	 about 7 hours ago	Version 1.0	
	cv_almalinux_9_latest	August 12, 2025 at 08:35 AM	 about 7 hours ago	Version 1.0	
	cv_fedora_42	August 12, 2025 at 08:33 AM	 about 7 hours ago	Version 1.0	
	cv_oraclelinux_9_latest	August 12, 2025 at 08:35 AM	 about 7 hours ago	Version 1.0	

Funcionalidades - Gerenciamento de Ciclo de Vida

ccv_alma_9_ACME 

[Publish new version](#)

[View tasks !\[\]\(36f06f5166699f74ba8f4d48e635dcb0_img.jpg\)](#)



Details

Versions

Content views

History



 Search



[Compare](#)



1-1 of 1



Version	Environments	Packages	Errata	Additional content	Description
<input type="checkbox"/> Version 1.0	Library DEV QA PROD	about 7 hours ago	9815	1097 ( 1096,  1,  0)	23 Module streams No description

Funcionalidades - Gerenciamento de Ciclo de Vida

ccv_alma_9_ACME

[Publish new version](#) [View tasks](#)

Details **Versions** Content views History

Version 1.0

No description

Components	2
Repositories	4
RPM Packages	9815
RPM Package Groups	97
Errata	1097
Module Streams	23

Content View Name Version Updated

Content View Name	Version	Updated
cv_3rd_party	1.0	August 12, 2025 at 08:37 AM
cv_almalinux_9_latest	1.0	August 12, 2025 at 08:36 AM

1 - 2 of 2 items 1 of 1

Funcionalidades - Gerenciamento de Ciclo de Vida

ccv_alma_9_ACME ☀

[Publish new version](#) [View tasks](#)

Components	2	Content View Name	Version	Updated
Repositories	4	cv_3rd_party	1.0	August 12, 2025 at 08:37 AM
RPM Packages	9815	cv_almalinux_9_latest	1.0	August 12, 2025 at 08:36 AM
RPM Package Groups	97			1 - 2 of 2 items
Errata	1097			<< < 1 of 1 > >>
Module Streams	23			

Module Streams 23

Funcionalidades - Gerenciamento de Ciclo de Vida

Lifecycle Environment Paths

[+ Create Environment Path](#)

Library	Content Views 7	Products 5	Yum Repositories 8	Packages 145091	Errata 9677	Module Streams 115
---------	--------------------	---------------	-----------------------	--------------------	----------------	-----------------------



[+ Add New Environment](#)

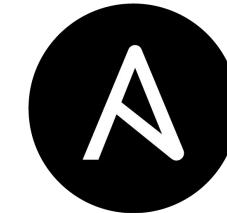
	DEV	QA	PROD
Content Views	3	3	3
Content Hosts	2	1	0



<https://www.youtube.com/watch?v=gWyS1zpnRAY>

Gerenciamento de Configuração

Funcionalidades - Gerenciamento de Configuração



ANSIBLE



Provisionamento

Funcionalidades - Provisionamento

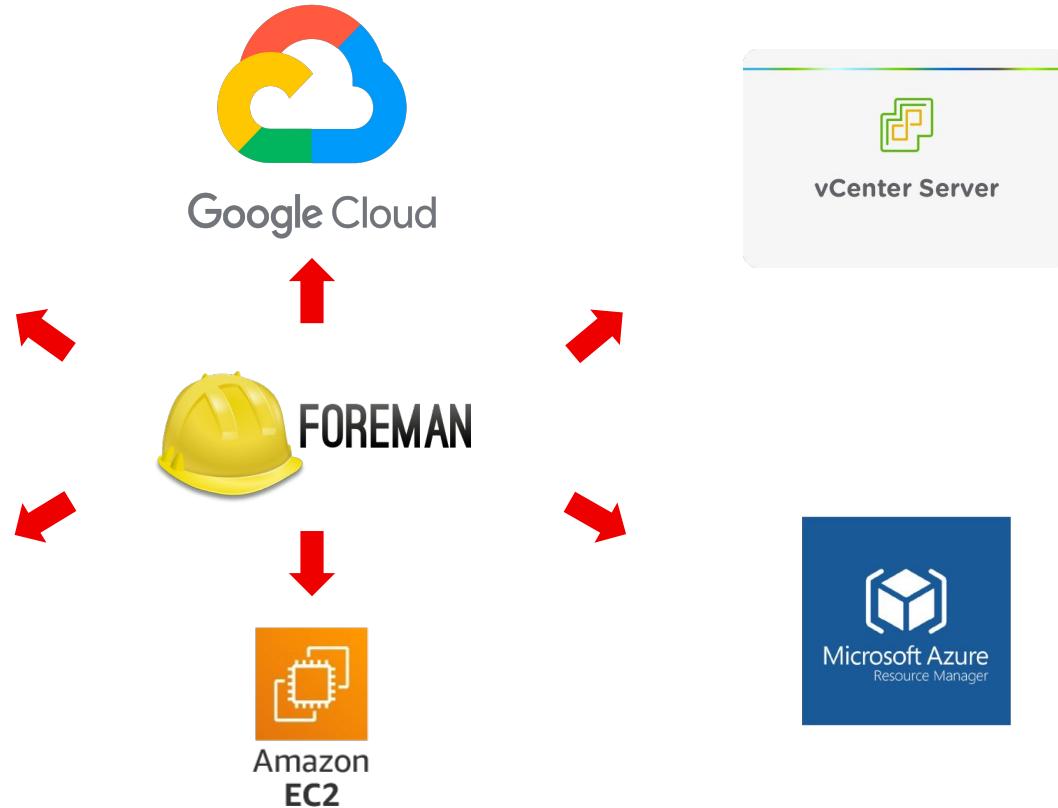
- Cenarios diferenciados, como por exemplo:
 - DHCP e DNS Interno
 - DHCP e DNS Externo
 - FDI (Foreman Discovery Image) via ISO ou PXE
 - ISO personalizada para um servidor
 - Baremetal e VM
 - Provisionamento via Capsule Server
 - Personalizacao pos provisionamento (callback ou custom provisioning templates)

Integracao via Compute Resources

Funcionalidades - Integracao via Compute Resources



openstack.[®]



Compliance usando OpenSCAP

Funcionalidades - Compliance usando OpenSCAP

SCAP Contents

Search		→	Bookmark	Upload New SCAP Content	Documentation
Title	File name	Created at		Actions	
ssg-almalinux9-ds	ssg-almalinux9-ds.xml	11 minutes ago		Download	▼
ssg-fedora-ds	ssg-fedora-ds.xml	about 14 hours ago		Download	▼
ssg-ol9-ds	ssg-ol9-ds.xml	11 minutes ago		Download	▼

1 - 3 of 3 items ▾ ◀◀ ◀ ▶ ▶▶ 1 of 1

Funcionalidades - Compliance usando OpenSCAP

Compliance Policies

<input type="text"/> Search → Bookmark ▾					New Compliance Policy Documentation
Name	Content	Profile	Tailoring File	Effective Profile	Actions
alma-PCI	ssg-almalinux9-ds	PCI-DSS v4.0.1 Control Baseline for AlmaLinux OS 9	None	PCI-DSS v4.0.1 Control Baseline for AlmaLinux OS 9	Dashboard ▾
fedora-PCI	ssg-fedora-ds	PCI-DSS v3.2.1 Control Baseline for Fedora	None	PCI-DSS v3.2.1 Control Baseline for Fedora	Dashboard ▾
ol-pci	ssg-ol9-ds	PCI-DSS v4.0 Control Baseline for Oracle Linux 9	None	PCI-DSS v4.0 Control Baseline for Oracle Linux 9	Dashboard ▾

1 - 3 of 3 items ▾ «« < 1 of 1 > »»

Funcionalidades - Compliance usando OpenSCAP

Compliance Reports

		Search	→	Bookmark	▼				Delete reports
Host	Reported At	Policy	Openscap Proxy	Passed	Failed	Other	Actions		
<input type="checkbox"/> foreman00-node01-ol9.king.lab	less than a minute ago	ol-pci	foreman00.king.lab	113	121	2	<button>Full Report</button>	▼	
<input type="checkbox"/> foreman00-node02-al9.king.lab	1 minute ago	alma-PCI	foreman00.king.lab	109	126	2	<button>Full Report</button>	▼	
<input type="checkbox"/> foreman00-node03-fedora42	2 minutes ago	fedora-PCI	foreman00.king.lab	36	74	1	<button>Full Report</button>	▼	

1 - 3 of 3 items ▾ << < 1 of 1 > >>

<https://www.youtube.com/watch?v=gAHDopMVN8A>

Funcionalidades - Compliance usando OpenSCAP

Compliance Reports > foreman00-node01-ol9.king.lab

Show log messages:

All messages

Back Delete Host details View full report Download XML in bzip Download HTML

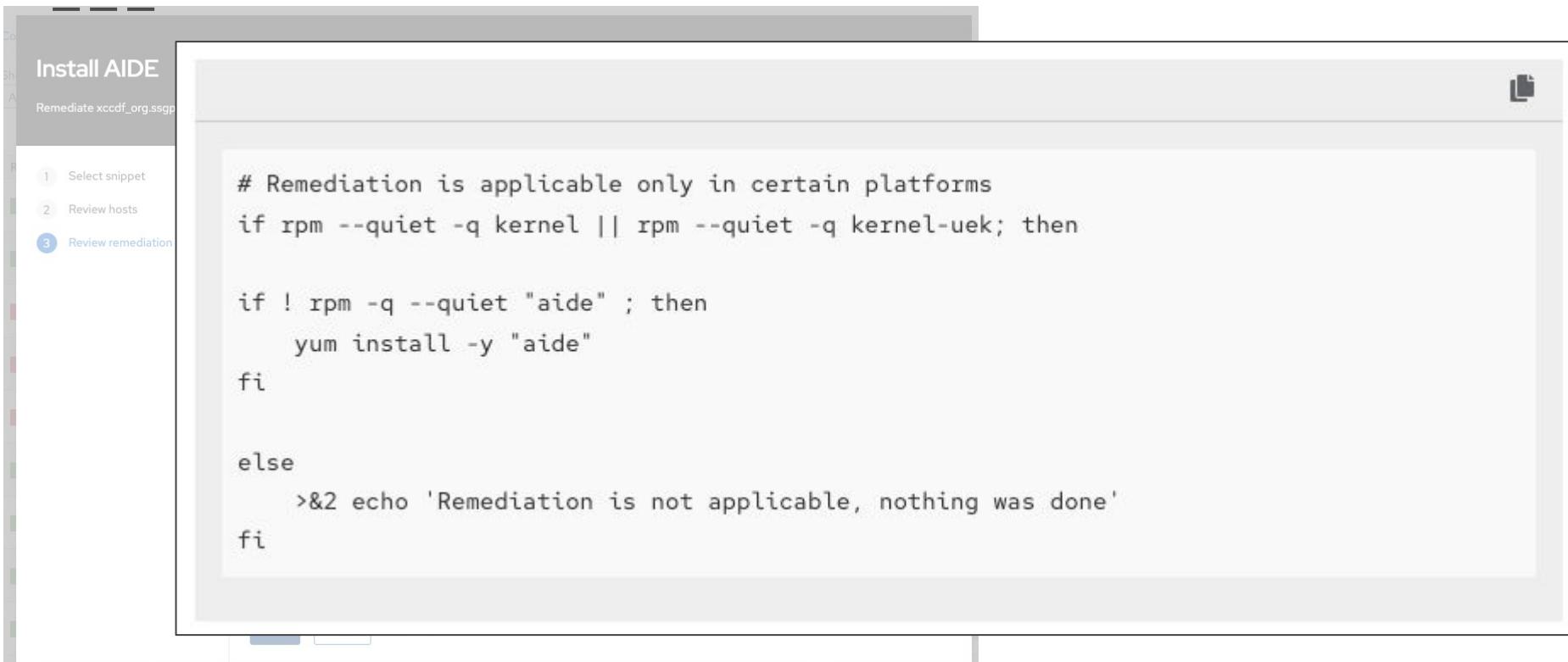
Reported at Aug 14, 07:36 AM for policy ol-pci through foreman00.king.lab

Result	Message	Resource	Severity	Actions
pass	Verify File Hashes with RPM 	xccdf_org.ssgproject.content_rule_rpm_verify_hashes		<button>Hosts failing this rule</button>
pass	Verify and Correct Ownership with RPM 	xccdf_org.ssgproject.content_rule_rpm_verify_ownership		<button>Hosts failing this rule</button>
fail	Install AIDE 	xccdf_org.ssgproject.content_rule_package_aide_installed		<button>Hosts failing this rule</button>
fail	Build and Test AIDE Database 	xccdf_org.ssgproject.content_rule_aide_build_database		 <button>Hosts passing this rule</button> <button>Hosts othering this rule</button> <button>Remediation</button>

Funcionalidades - Compliance usando OpenSCAP

The screenshot shows a software interface for managing system compliance rules. The main title is "Install AIDE" with the subtitle "Remediate xccdf_org.ssgproject.content_rule_package_aide_installed rule". On the left, a vertical navigation bar lists three steps: "Select snippet", "Review hosts", and "Review remediation", with the third one being the current active step. The main content area is titled "Review remediation" and contains the instruction "Review the remediation snippet that will be applied to selected host(s)". Below this is a warning message in a red-bordered box: "Do not implement any of the recommended remedial actions or scripts without first testing them in a non-production environment. Remediation might render the system non-functional." Underneath the warning, there are three blue links: "View selected hosts", "foreman00-node03-fedora42", and "Other hosts failing this rule". At the bottom, a code snippet shows the remediation script: "# Remediation is applicable only in certain platforms if rpm --quiet -q kernel || rpm --quiet -q kernel-uek; then". At the very bottom are three buttons: "Run" (dark blue), "Back" (light blue), and "Cancel".

Funcionalidades - Compliance usando OpenSCAP



The screenshot shows the OpenSCAP interface with the title "Install AIDE". On the left, a sidebar lists three steps: "Select snippet", "Review hosts", and "Review remediation", with the third step being the current active one. The main area contains a script snippet:

```
# Remediation is applicable only in certain platforms
if rpm --quiet -q kernel || rpm --quiet -q kernel-uek; then

    if ! rpm -q --quiet "aide" ; then
        yum install -y "aide"
    fi

else
    >&2 echo 'Remediation is not applicable, nothing was done'
fi
```

Funcionalidades - Compliance usando OpenSCAP

Compliance Reports > foreman00-node01-ol9.king.lab

Compliance and Scoring

The target system did not satisfy the conditions of 121 rules! Please review rule results and consider applying remediation.

Rule results



Severity of failed rules



Score

Scoring system	Score	Maximum	Percent
urn:xccdf:scoring:default	64.189674	100.000000	<div style="width: 64.19%; background-color: #28a745;"></div> 64.19%

Rule Overview

- pass
- fail
- fixed
- error
- informational
- unknown
- notchecked
- notapplicable

Search

Group rules by: Default

Funcionalidades - Compliance usando OpenSCAP

Compliance	Compliance Reports	foreman00-node01-ol9.king.lab	Severity	Result
C	Title			
T	▼ Guide to the Secure Configuration of Oracle Linux 9	121x fail 2x notchecked		
R	▼ System Settings	48x fail 2x notchecked		
S	▼ Installing and Maintaining Software	7x fail 1x notchecked		
2	▼ System and Software Integrity	3x fail		
S	▼ Software Integrity Checking	3x fail		
o	▶ Verify Integrity with RPM			
u	▼ Verify Integrity with AIDE	3x fail		
R	Install AIDE		medium	fail
	Build and Test AIDE Database		medium	fail
	Configure Periodic Execution of AIDE		medium	fail

Funcionalidades - Compliance usando OpenSCAP

Compliance Reports > foreman00-node01-ol9.ing.lab

Install AIDE

Rule ID	xccdf_org.ssgproject.content_rule_package_aide_installed
Result	fail
Multi-check rule	no
OVAL Definition ID	oval:ssg-package_aide_installed:def:1
Time	2025-08-14T07:36:12-08:00
Severity	medium

References:

cls-csc	1, 11, 12, 13, 14, 15, 16, 2, 3, 5, 7, 8, 9
cjis	5.10.1.3
cobit5	APO01.06, BAI01.06, BAI02.01, BAI03.05, BAI06.01, BAI10.01, BAI10.02, BAI10.03, BAI10.05, DSS01.03, DSS03.05, DSS04.07, DSS05.02, DSS05.03, DSS05.05, DSS05.07, DSS06.02, DSS06.06
isa-62443-2009	4.3.4.3.2, 4.3.4.3.3, 4.3.4.4.4
isa-62443-2013	SR 3.1, SR 3.3, SR 3.4, SR 3.8, SR 4.1, SR 6.2, SR 7.6
ism	1034, 1288, 1341, 1417
iso27001-2013	A.11.2.4, A.12.1.2, A.12.2.1, A.12.4.1, A.12.5.1, A.12.6.2, A.14.1.2, A.14.1.3, A.14.2.2, A.14.2.3, A.14.2.4, A.14.2.7, A.15.2.1, A.8.2.3
nist	CM-6(a)

Funcionalidades - Compliance usando OpenSCAP

Compliance Reports > foreman00-node01-ol9.ing.lab

Install AIDE

Rule ID	xccdf_org.ssgproject.content_rule_package_aide_installed
Result	fail
Multi-check rule	no
OVAL Definition ID	oval:ssg-package_aide_installed:def:1
Time	2025-08-14T07:36:12-08:00
Severity	medium
References:	
cis-csc	1, 11, 12, 13, 14, 15, 16, 2, 3, 5, 7, 8, 9
cjis	5.10.1.3
cobit5	APO01.06, BAI01.06, BAI02.01, BAI03.05, BAI06.01, BAI10.01, DSS03.05, DSS04.07, DSS05.02, DSS05.03, DSS05.05, DSS05.06
isa-62443-2009	4.3.4.3.2, 4.3.4.3.3, 4.3.4.4.4
isa-62443-2013	SR 3.1, SR 3.3, SR 3.4, SR 3.8, SR 4.1, SR 6.2, SR 7.6
ism	1034, 1288, 1341, 1417
iso27001-2013	A.11.2.4, A.12.1.2, A.12.2.1, A.12.4.1, A.12.5.1, A.12.6.2, A.14.2.1, A.14.2.2, A.14.2.3, A.15.2.1, A.8.2.3
nist	CM-6(a)

Remediation Shell script ↗

Remediation Ansible snippet ↗

Remediation Puppet snippet ↗

Remediation Anaconda snippet ↗

Remediation OSBuild Blueprint snippet ↗

Gerenciamento de Servidores Linux

Funcionalidades - Gerenciamento de Servidores Linux

Gerenciamento de Servidores Linux



Funcionalidades - Gerenciamento de Servidores Linux

Hosts

Search		→	Export	Select Action	Register Host	New UI	Create Host		
0 of 4 selected									
Power	Name	OS	Owner	Host group	Boot time	Last report	Comm...	Actions	
off	foreman00.king.lab	CentOS Stream 9			23 hours ago			<button>Edit</button>	<button>⋮</button>
off	foreman00-node01-ol9.king.lab	OracleLinux 9.5	Admin ...		7 hours ago			<button>Edit</button>	<button>⋮</button>
off	foreman00-node02-al9.king.lab	AlmaLinux 9.6	Admin ...		7 hours ago			<button>Edit</button>	<button>⋮</button>
off	foreman00-node03-fedora42	Fedora 42	Admin ...		7 hours ago			<button>Edit</button>	<button>⋮</button>

Funcionalidades - Gerenciamento de Servidores Linux

	Power	Name	OS
<input type="checkbox"/>		foreman00.king.lab	CentOS Stream 9
<input type="checkbox"/>		foreman00-node01-ol9.king.lab	OracleLinux 9.5
<input type="checkbox"/>		foreman00-node02-al9.king.lab	AlmaLinux 9.6
<input type="checkbox"/>		foreman00-node03-fedora42	Fedora 42

Funcionalidades - Gerenciamento de Servidores Linux

Content Hosts

Filter...		Search ▾							Export	Register Content Host	Select Action ▾					
0 of 4 Selected																
	Name	Installable Updates		OS	Lifecycle Environment		Content View	Registered	Last Checkin							
<input type="checkbox"/>	foreman00.king.lab	0	▲	0	✖	0	✚	0	📦	CentOS Stream 9						
<input type="checkbox"/>	foreman00-node01-al9.king.lab	71	▲	145	✖	3	✚	640	📦	OracleLinux 9.5	QA	ccv_ol_9_ACME	August 12, 2025 at 09:51 AM	August 12, 2025 at 04:11 PM		
<input type="checkbox"/>	foreman00-node02-al9.king.lab	28	▲	0	✖	0	✚	171	📦	AlmaLinux 9.6	DEV	ccv_alma_9_ACME	August 12, 2025 at 03:56 PM	August 12, 2025 at 04:17 PM		
<input type="checkbox"/>	foreman00-node03-fedora42	16	▲	47	✖	20	✚	238	📦	Fedora 42	DEV	ccv_fedora_42_ACME	August 12, 2025 at 03:56 PM	August 12, 2025 at 03:56 PM		
20		per page		Showing 1 - 4 of 4								«	«	1 of 1	»	»

Funcionalidades - Gerenciamento de Servidores Linux

Content Hosts

<input type="checkbox"/>	Name	Installable Updates	OS	Lifecycle Environment	Content View
<input type="checkbox"/>	foreman00.king.lab	0 🔞 0 🚧 0 + 0 📦	CentOS Stream 9		
<input type="checkbox"/>	foreman00-node01-ol9.king.lab	640 71 🔞 145 🚧 3 + 📦	OracleLinux 9.5	QA	ccv_ol_9_ACME
<input type="checkbox"/>	foreman00-node02-al9.king.lab	28 🔞 0 🚧 0 + 171 📦	AlmaLinux 9.6	DEV	ccv_alma_9_ACME
<input type="checkbox"/>	foreman00-node03-fedora42	238 16 🔞 47 🚧 20 + 📦	Fedora 42	DEV	ccv_fedora_42_ACME



Funcionalidades - Gerenciamento de Servidores Linux

Hosts > foreman00-node03-fedora42 ↗

foreman00-node03-fedora42 1 Fedora 42 x86_64

Created 8 hours ago by Anonymous Admin (updated 2 hours ago)

Schedule a job Edit ⋮

Overview Details Content Parameters Traces Reports

Host status 1 | 0 | 1 | 4

Content view environment DEV ccv_fedora_42_ACME Version 1.0 (latest)

Errata Applicable Installable 103 errata

16 security advisories 47 bug fixes 20 enhancements

Details

- IPv6 address Not available
- IPv4 address 192.168.86.226
- MAC address 52:54:00:35:2a:db

Recent jobs

Finished Running Scheduled

No results found

Recent communication

Last configuration Never report Last check-in: 2 hours ago

Host group Not available

Host owner Admin User

Comment ⌂

A red arrow points to the 'Recent communication' section of the host details page.

Funcionalidades - Gerenciamento de Servidores Linux

Hosts > foreman00-node03-fedora42

foreman00-node03-fedora42 1 Fedora 42 x86_64

Created 8 hours ago by Anonymous Admin (updated 2 hours ago)

Overview Details Content Parameters Traces Reports

Host status 1
✓ 1 | ⚠ 0 | ⓘ 1 | ⓘ 4

Content view environment
DEV ccv_fedora_42_ACME
Version 1.0 (latest)

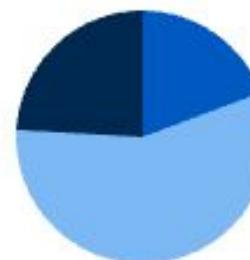
Errata Applicable Installable
103 errata
16 security advisories, 47 bug fixes, 20 enhancements

Recent jobs
Finished Running Scheduled
No results found

Recent communication
Last configuration Never report
Last check-in: 2 hours ago

Errata Applicable Installable
103 errata

16 security advisories, 47 bug fixes, 20 enhancements



Funcionalidades - Gerenciamento de Servidores Linux

Hosts > foreman00-node03-fedora42 ↗

foreman00-node03-fedora42 ⓘ Fedora 42 x86_64

Created 8 hours ago by Anonymous Admin (updated 2 hours ago)

Overview Details Content Parameters Traces Reports

Packages Errata Module streams Repository sets

Search Type Severity Applicable Installable Apply 1 - 20 of 103

Errata	Type	Severity	Installable	Synopsis	Published date
FEDORA-2025-02c79c787e	Bugfix	N/A	✓ Yes	btrfs-progs-6.15-1...	06/25/2025
FEDORA-2025-047e757c31	Bugfix	N/A	✓ Yes	wireless-regdb-2...	04/24/2025
FEDORA-2025-06b9859763	Bugfix	Moderate	✓ Yes	coreutils-9.6.5.fc...	07/11/2025
FEDORA-2025-0820057b8f	Enhancement	N/A	✓ Yes	hwdata-0.398-1.f...	08/07/2025
FEDORA-2025-08cb58d76b	Bugfix	N/A	✓ Yes	exfatprogs-1.2.9-1...	05/16/2025
FEDORA-2025-0975bbb70e	Bugfix	N/A	✓ Yes	libeconf-0.7.6-2.f...	06/15/2025
FEDORA-2025-098c5129af	Enhancement	N/A	✓ Yes	elfutils-0.193-2.f...	05/02/2025
FEDORA-2025-09b1545c7a	Bugfix	N/A	✓ Yes	kernel-6.15.9-201...	08/05/2025
FEDORA-2025-0fd5e39dd9	Bugfix	N/A	✓ Yes	samba-4.22.3-2.f...	07/11/2025
FEDORA-2025-1516194d78	Bugfix	N/A	✓ Yes	python-argcompl...	04/19/2025

Funcionalidades - Gerenciamento de Servidores Linux

Hosts > foreman00-node03-fedora42 ↗

foreman00-node03-fedora42 1 Fedora 42 x86_64

Schedule a job Edit ...

Created 8 hours ago by Anonymous Admin (updated 2 hours ago)

Overview Details Content Parameters Traces Reports

Packages Errata Module streams Repository sets

Search Type Severity Applicable Installable Apply 1 - 20 of 103

Errata	Type	Severity	Installable	Synopsis	Published date
FEDORA-2025-02c79c787e	Bugfix	N/A	✓ Yes	btrfs-progs-6.15-1...	06/25/2025
Bugs 1	Synopsis btrfs-progs-6.15-1.fc42				
CVEs 0					
Packages 51	Summary btrfs-progs-6.15-1.fc42 bugfix update				
Module streams 0	Solution				

Show full description

Funcionalidades - Gerenciamento de Servidores Linux

Hosts > foreman00-node03-fedora42

Host	Type	Status	Actions
FEDORA-2025-02c79c787e	Bugfix	N/A	<input checked="" type="checkbox"/> Yes btrfs-progs-6.15-1... 06/25/2025

Bugs 1

CVEs 0

Packages 51

Module streams 0

Synopsis
btrfs-progs-6.15-1.fc42

Summary
btrfs-progs-6.15-1.fc42 bugfix update

Solution

[Show full description](#)

Bugs 1

CVEs 0

Packages 51

Module streams 0

Synopsis
btrfs-progs-6.15-1.fc42

Summary
btrfs-progs-6.15-1.fc42 bugfix update

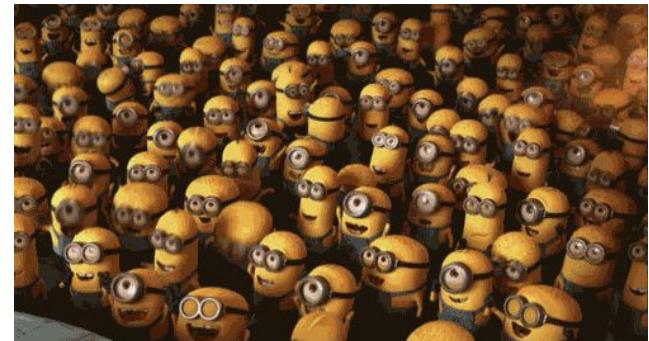
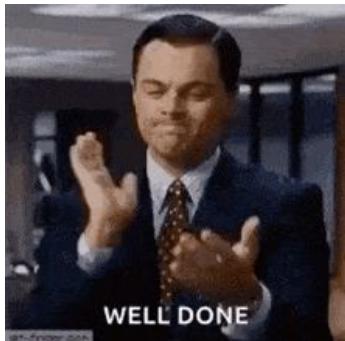
Solution

[Show full description](#)

Big Question

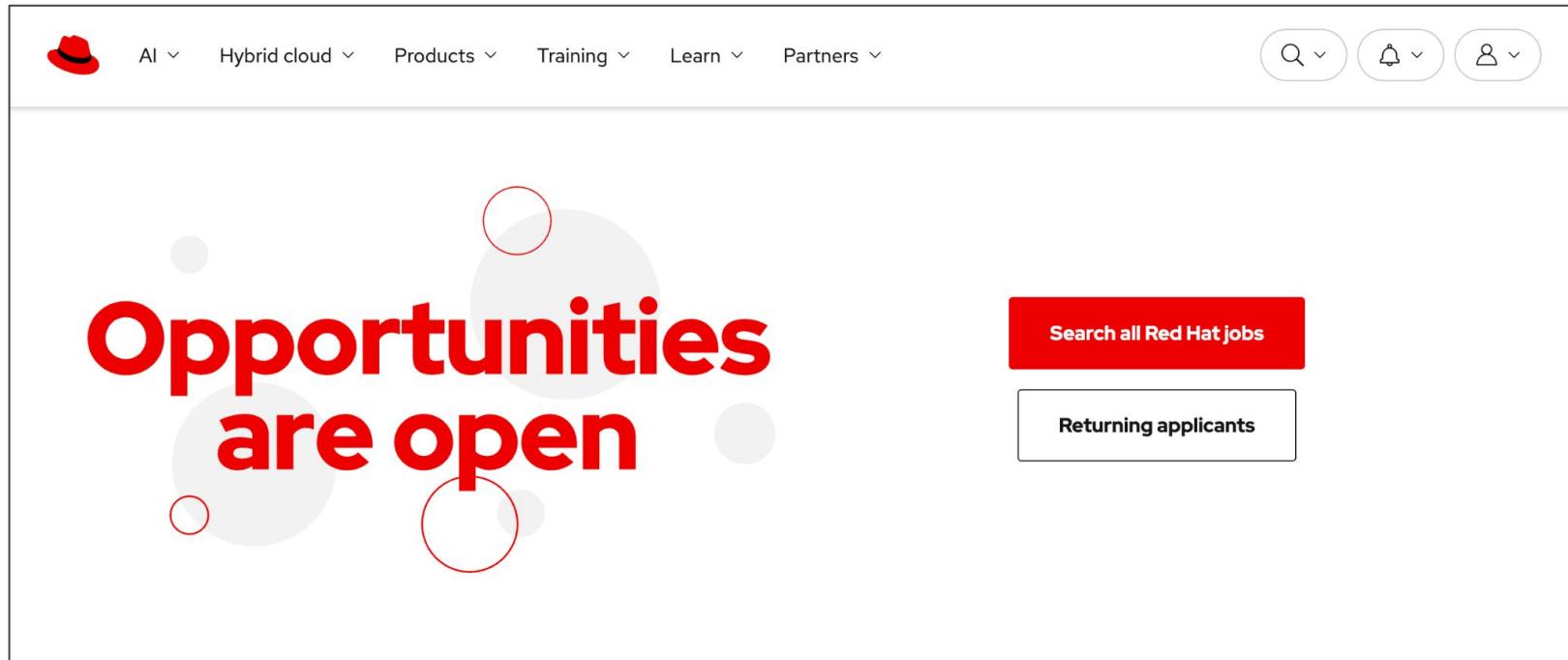
Big Question

Como posso ter experiencia, se nao tenho **\$\$** para comprar uma subscrição (Satellite, OpenShift, ...)?



Jobs / Oportunidades

Jobs / Oportunidades



The image shows a screenshot of the Red Hat careers website. At the top, there is a navigation bar with a red hat icon, followed by dropdown menus for AI, Hybrid cloud, Products, Training, Learn, and Partners. To the right of the menu are three circular icons: a magnifying glass for search, a bell for notifications, and a user profile. The main visual features a large, bold, red text "Opportunities are open" overlaid on a background with several overlapping circles in shades of gray and red. To the right of the text are two buttons: a red button labeled "Search all Red Hat jobs" and a white button labeled "Returning applicants".

<https://jobs.redhat.com/>

Jobs / Oportunidades



Red Hat Careers at Red Hat

Careers Home Search for Jobs Talent Community

Opportunities are open

Search for jobs or keywords

Country Region/State/Province Remote Type More

282 JOBS FOUND

[Product Security Engineer - Resilient Development AI Specialist](#)

Hybrid Boston

Posted Today

R-048735

Senior Principal Software Engineer

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Links

Links

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- <https://jobs.redhat.com>
- <https://theforeman.org/>
- <https://github.com/theforeman/>
- <https://www.youtube.com/watch?v=gWyS1zpnRAY>
- <https://www.youtube.com/watch?v=gAHDopMVN8A>
- https://www.youtube.com/watch?v=tBku4QPEM_Y
- <https://discord.com/invite/SVbWFZx9vE>

Recap

Recap

- Projeto vs Produto / Upstream vs Downstream
- Comparativo do RH Satellite vs Foreman Turbinado
- Sem Cobranca, Sem Custo, Upstream++
- Funcionalidades
- Jobs / Oportunidades
- Big Question!

Contatos

Contatos



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Dúvidas!?