
New Skills with Red Hat Upstream Projects

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08.24.2024 - VanLUG

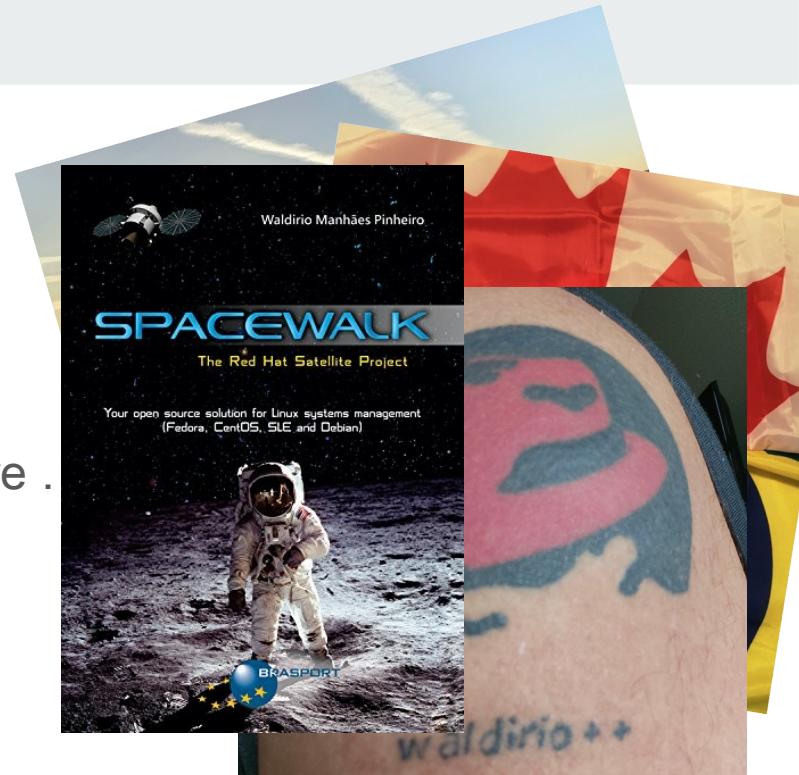
Agenda

- About Me
- The Big Question!
- Upstream / Open Source Projects
- Red Hat
- Upstream vs Downstream
- Red Hat Contribution
- Basic Project Workflow
- Complete Project Workflow
- Open Jobs / Opportunities

About Me

About Me

- Waldirio M Pinheiro / Wally
- Married with a beautiful wife
- Children (18 and 16) ... not children anymore .
- Brazilian and living in Canada since 2018
- In love with Technology ... always
- Yes, I do have a Shadowman tattoo!
- I also wrote a book about Spacewalk (upstream of RH Satellite 5)
- I don't feel comfortable in the comfort zone, and you also should not!
- Be humble and practice good acts, this two little things will help you a lot!



The Big Question!

The Big Question!

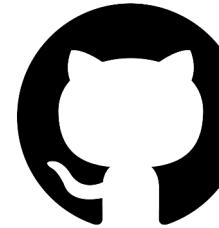
Would you like to be ready for an interview when a company
is looking for a Red Hat experienced person?

And how can you achieve it?

Upstream / Open Source Projects

Upstream / Open Source Projects

- Create your GitHub account, in case you don't have it yet!
- Understanding the difference between Single Repo and Organization
- **Single Project or Repository**, is the repository in the user account
- **Organization**, is a place with multiple repositories



Upstream / Open Source Projects - *Single Project or Repository*

The screenshot shows a GitHub repository page for 'waldirio/rvtools_python'. The URL in the address bar is 'github.com/waldirio/rvtools_python'. The repository name 'waldirio/rvtools_python' is highlighted with a red circle. The page includes navigation links for Code, Issues (30), Pull requests (5), Actions, Projects, Security, and Insights. A dropdown menu shows the current branch is 'master'. On the right, there's an 'About' section describing the application as being executed on Linux to collect information from vCenter, along with links to Readme, Activity, stars (10), watching (6), forks (9), and a Report repository button. Below this is a 'Releases' section showing one release, 'v1.0.0 (Latest)', released on Oct 17, 2021. The main content area displays a list of files and their commit history:

File	Commit Message	Time Ago
bin	[ENHANCEMENT] fixing some pyt...	3 years ago
references	Squash	6 years ago
rvtools	[FIX] sys.exit added	3 years ago
test	Squash	6 years ago
.gitignore	Squash	6 years ago
README.md	[FIX] Updated the setup.py in ord...	6 months ago
requirements.txt	[FIX] Updated the setup.py in ord...	6 months ago
setup.py	[FIX] Updated the setup.py in ord...	6 months ago

Upstream / Open Source Projects - *Single Project or Repository*

The screenshot shows two views of the same GitHub repository page for 'rvtools_python'. The left view is a dark-themed browser window, and the right view is a light-themed browser window. Both windows have the URL 'github.com/waldirio/rvtools_python' in the address bar.

Left View (Dark Theme):

- Header: 'waldirio / rvtools_python' (Public)
- Navigation: Code, Issues (30), Pull requests (5), Actions
- Branch: master
- File List:
 - bin
 - references
 - rvtools
 - test
 - .gitignore
 - README.md
 - requirements.txt
 - setup.py
- Commit: waldirio [FIX] Updated the setup.py in order to work p... a77bbff

Right View (Light Theme):

- Header: 'waldirio / rvtools_python'
- Content:
 - README**
 - ## rvtools python

Application to be executed on Linux and collect all information from vCenter

The idea is to be a similar application as RVTools [1] the main difference is, the application from website was designed to be executed only on MS platform, this version will be written in python 3 so will be possible execute on Linux environment.

About the final result, the idea is generate similar output CSV files.

The point here is not about COPY but just improve the Python skill and use the project [1] as reference once this one is a fantastic product!!!

Thank you and feel free to request Features / Enhancements.

Ps.: Necessary python 3.9 or greather.

How to use??

First install the python module
- Sidebar:
 - Packages**: No packages published
 - Languages**: Python 100.0%

Upstream / Open Source Projects - *Single Project or Repository*

The screenshot shows a GitHub repository page for 'waldirio/rvtools_python'. The URL in the address bar is 'github.com/waldirio/rvtools_python'. The repository is public. The navigation bar includes links for Code, Issues (30), Pull requests (5), Actions, Projects, Security, and Insights. A red circle highlights the 'Issues' link. Below the navigation bar, there are dropdown menus for 'master' and 'Code', and a 'Go to file' button. The main content area displays a list of recent commits:

File / Commit Type	Description	Date
bin	[ENHANCEMENT] fixing some pyt...	3 years ago
references	Squash	6 years ago
rvtools	[FIX] sys.exit added	3 years ago
test	Squash	6 years ago
.gitignore	Squash	6 years ago
README.md	[FIX] Updated the setup.py in ord...	6 months ago
requirements.txt	[FIX] Updated the setup.py in ord...	6 months ago
setup.py	[FIX] Updated the setup.py in ord...	6 months ago

To the right of the commit list is an 'About' section containing the project's description: 'Application to be executed on Linux and collect all information from vCenter'. It also lists 'Readme', 'Activity', '10 stars', '6 watching', '9 forks', and a 'Report repository' link. Below this is a 'Releases' section with one entry: 'v1.0.0 Latest' (on Oct 17, 2021). The bottom of the page has a 'Packages' section.

Upstream / Open Source Projects - Single Project or Repository

The image shows two screenshots of a GitHub repository page for 'waldirio/rvtools_python'. The left screenshot shows the repository's main page with a list of files and their commit history. The right screenshot shows the 'Issues' tab, which is highlighted with a red arrow. The 'Issues' tab displays 30 open issues and 8 closed issues. The issues are listed with their titles, authors, labels, and creation dates.

Issues Tab (Right Screenshot):

Issue #	Title	Author	Label	Created	Comments
#48	I added --quiet and --config option	martinbonneau	enhancement	Oct 20, 2023	1
#47	Connecting to Vcenter with rvtools	freeAppProd	enhancement	Feb 15, 2023	2
#38	In a multi datacenter/multi cluster environment, the cluster and datacenter attributes are all the same in console and csv output	jsasunci	bug	Aug 30, 2021	5
#35	Keep getting "IndexError: list index out of range" in vinfo.py	davehouser1	bug	Jan 8, 2021	6
#33	Looking New feature on Linux platform		enhancement		2

Upstream / Open Source Projects - *Single Project or Repository*

The screenshot shows a GitHub profile page for the user `waldirio`. The URL `github.com/waldirio` is highlighted with a red circle at the top left. Below the header, there's a large circular profile picture of a smiling bald man. The user's name, **Waldirio M Pinheiro**, and handle `waldirio` are displayed. A red circle highlights the "Follow" button and the statistics below it: **63 followers** and **56 following**. The main content area is titled "Popular repositories" and lists several public projects:

- rvtools_python** (Public): Application to be executed on Linux and collect all information from vCenter. Python, 10 stars, 9 forks.
- hammer_docs** (Public): Shell, 6 stars, 3 forks.
- hibi-axe** (Public): Python, 5 stars, 4 forks.
- satellite-report-tools** (Public): Graphical tool using python + glade to connect RHNSatellite or Spacewalk to collect different kind of information generating a customized report: First Feature - Security information (Security Advisories). Logos, 3 stars, 1 fork.
- poc_sat6** (Public): Script to just build a Satellite 6 poc/test environment. Python, 0 stars, 0 forks.
- backup_router** (Public): Python program to help the admin to collect all routers configurations (Cisco) in a specific place. Python, 0 stars, 0 forks.

At the bottom, there's a section for "Achievements" featuring four small circular icons.

Upstream / Open Source Projects - Organization

The screenshot shows a GitHub organization page for 'C-RH-C'. The page includes a logo, a brief description, follower count, and email contact information. It features sections for popular repositories, top languages, and people. A red circle highlights the 'People' section, which states: 'This organization has no public members. You must be a member to see who's a part of this organization.'

github.com/c-rh-c

C-RH-C

Some scripts that will help you with console.redhat.com

6 followers waldirio@gmail.com

Overview Repositories 7 Projects Packages People

Popular repositories

- crhc-cli** Public
C.RH.C API Command Line Tool
Python 18 13
- hcs-collector** Public
Python 2 5
- ACM-MCE-must-gather** Public
Shell 2 2
- hbi-axe** Public archive
Python 1 1
- oc_analyze** Public
Shell 2
- inventory_swatch_info** Public archive
Python 1

People

This organization has no public members. You must be a member to see who's a part of this organization.

Top languages

Python Shell

Upstream / Open Source Projects - Organization

The image shows two side-by-side screenshots of GitHub organization pages. On the left is the 'C-RH-C' organization page, and on the right is the 'Qikfix' organization page.

C-RH-C Organization Page:

- Avatar:** A red square icon containing a white cloud with 'CRHC' inside.
- Name:** C-RH-C
- Description:** Some scripts that will help you with console.redhat.com
- Followers:** 6 followers (waldirio@gmail.com)
- Repositories:** 7 (crhc-cli, hcs-collector, ACM-MCE-must-gather, oc_analyze, inventory_swatch_info, hbi-axe, jvmanalyze)
- Projects:** 0
- Packages:** 0

Popular repositories:

- crhc-cli: C.RH.C API Command Line Tool (Python, 18 stars, 13 forks)
- hcs-collector: (Python, 2 stars, 5 forks)
- ACM-MCE-must-gather: (Shell, 2 stars, 2 forks)
- oc_analyze: (Shell, 2 stars, 1 fork)
- inventory_swatch_info: (Python, 1 star, 1 fork)
- hbi-axe: (Python, 1 star, 1 fork)
- jvmanalyze: Script to analyze application server JVM's, with heap size information (Shell, 2 stars, 12 forks)

Qikfix Organization Page:

- Avatar:** A red square icon containing a white 'Qik Fix' logo.
- Name:** Qikfix
- Description:** Quick Fix Stuff
- Followers:** 3 followers (waldirio@gmail.com)
- Repositories:** 27 (sos_analyze, pulp3_repos, satellite_health, RepoLocator, cert-collector, jvmanalyze)
- Projects:** 0
- Packages:** 0
- People:** 0

Popular repositories:

- sos_analyze: (Shell, 12 stars, 3 forks)
- pulp3_repos: (Shell, 7 stars, 3 forks)
- satellite_health: (Shell, 2 stars, 1 fork)
- RepoLocator: (Shell, 2 stars, 1 fork)
- cert-collector: Script to collect all the possible certificate information from Satellite, Capsule and Content Host (Shell, 1 star, 1 fork)
- jvmanalyze: (Shell, 2 stars, 12 forks) - highlighted with a red arrow pointing to it.

Right-hand sidebar (Qikfix):

- People:** This organization has no public members. You must be a member to see who's a part of this organization.
- Top languages:** Shell, Python

Upstream / Open Source Projects - Organization

The screenshot shows a GitHub repository page for `Qikfix/sos_analyze`. The repository is public and has 8 stars, 12 forks, and 5 issues. The code tab is selected. A list of files is shown on the left, and the README file is expanded, containing a script for analyzing `sosreport`.

Code Issues 5 Pull requests Actions Projects Security Insights

master Go to file <> Code

waldorio [FIX] fixing some known issues · 7799787 · 2 weeks ago

internals_help [FIX] fixing some known issues · 2 weeks ago

README.md [ENHANCEMENT] Adding some o... · 2 years ago

build_changelog.sh [FEATURE] - Adding changelog fe... · 4 years ago

changelog.log [ENHANCEMENT] Adding sa anal... · last year

sos_analyze.sh [FIX] fixing some known issues · 2 weeks ago

About

No description, website, or topics provided.

Readme Activity Custom properties

8 stars 4 watching 12 forks

Report repository

Releases

No releases published

Packages

Script used to analyze the `sosreport` file (focus on Satellite info)

Upstream / Open Source Projects - Organization

The screenshot shows a GitHub repository page for the project `Qikfix/sos_analyze`. The repository is public, has 12 forks, and 8 stars. The main page features a large banner with the repository's name and a list of recent commits. On the left, there's a sidebar with navigation links like Code, Issues, Pull requests, and a dropdown for branches. The right side contains sections for Readme, Activity, Custom properties, star count, watching count, fork count, and a Report repository button. Below the main content, there are sections for Releases and Packages.

Code Issues 5 Pull requests

master

waldirio [FIX] fixing some known issues

<code>internals_help</code>	[FIX] fixing some known issues	2 weeks ago
<code>README.md</code>	[ENHANCEMENT] Adding some o...	2 years ago
<code>build_changelog.sh</code>	[FEATURE] - Adding changelog fe...	4 years ago
<code>changelog.log</code>	[ENHANCEMENT] Adding sa anal...	last year
<code>sos_analyze.sh</code>	[FIX] fixing some known issues	2 weeks ago

Readme

Activity

Custom properties

8 stars

4 watching

12 forks

Report repository

Releases

No releases published

Packages

Script used to analyze the sosreport file (focus on Satellite info)

Red Hat

Red Hat

More than
90%
of the
Fortune
500
use
Red Hat
products and
solutions¹

The world's leading provider of open source enterprise IT solutions

~22,000

employees

105+
offices

The first
\$3
billion
open
source
company
in the world²

Sources:

- 1 - Red Hat client data and [Fortune 500 list](#), September 2023. (requires subscription)
- 2 - [Red Hat SEC filings](#) prior to the acquisition by IBM. Note: Currency in U.S. dollars.

Red Hat

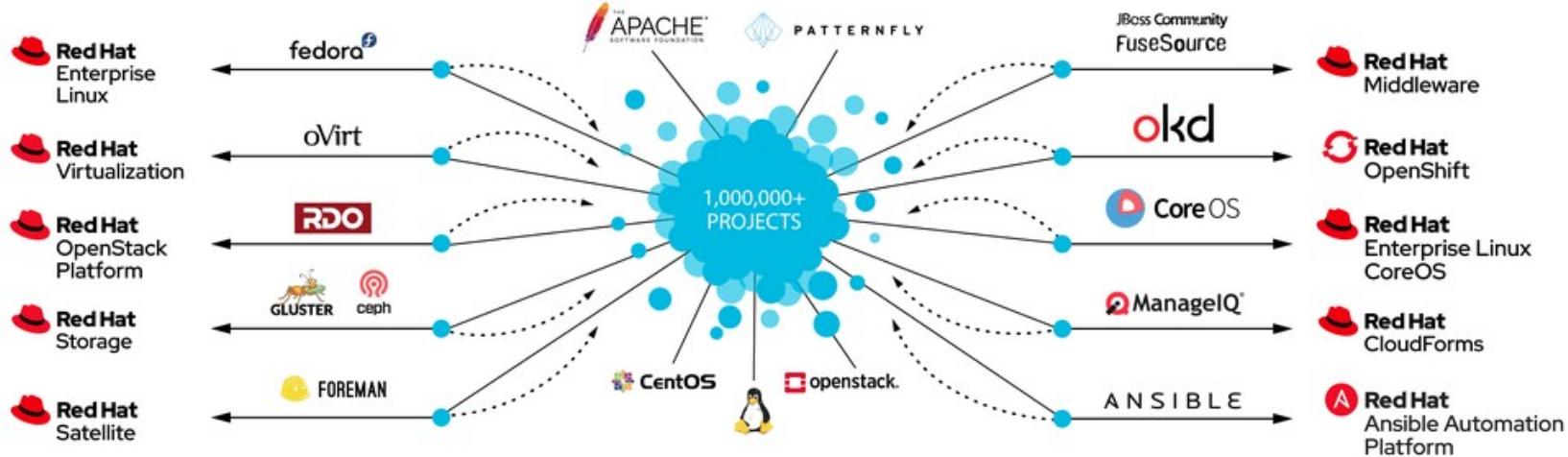
1993	Founded
1999	IPO
2002	First release of enterprise Linux
2006	JBoss acquired
2009	Red Hat Virtualization released
	Red Hat added to S&P 500 index
2011	OpenShift released
	\$1 billion in revenue
2012	Red Hat Storage released
	OpenShift Enterprise released
2013	Red Hat OpenStack Platform released
2014	CentOS joins Red Hat
	Inktank (Ceph), eNovance (OpenStack), & FeedHenry (Mobile) acquired
2015	Ansible acquired
2016	\$2 billion in revenue
	3scale acquired
2017	Codenvy & Permabit acquired
2018	CoreOS & NooBaa acquired
2019	\$3 billion in revenue
	Red Hat acquired by IBM
2020	Paul Cormier named President and CEO
2021	StackRox acquired
2022	Matt Hicks named President and CEO

Sources: [Red Hat SEC filings](#) prior to the acquisition by IBM. Note: Currency in U.S. dollars.

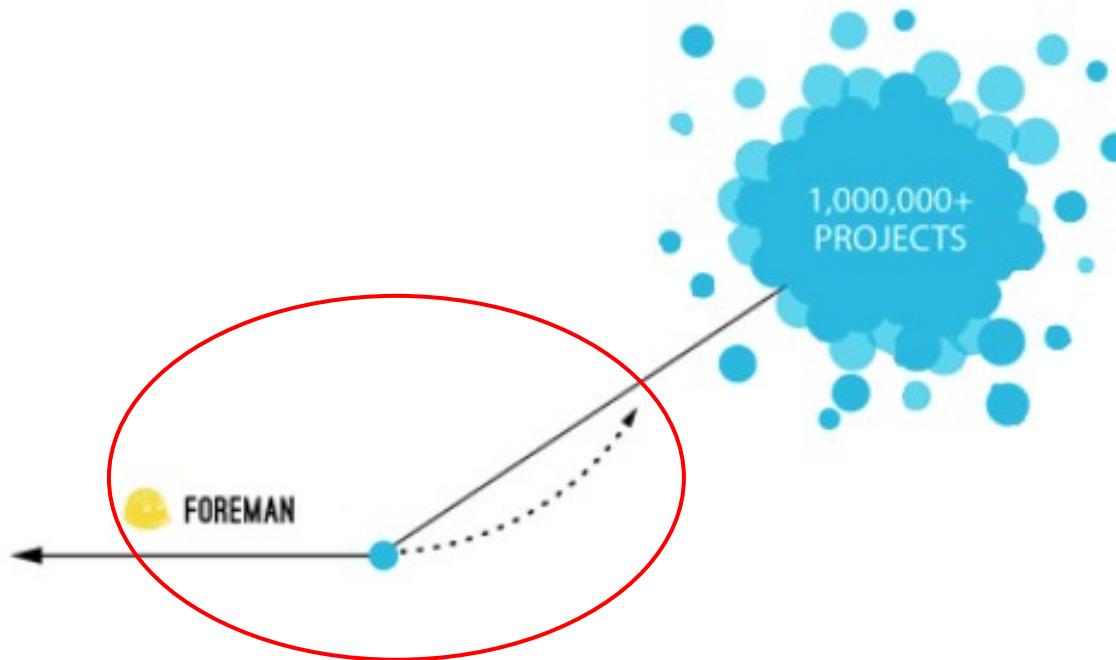
Upstream vs Downstream

Upstream vs Downstream

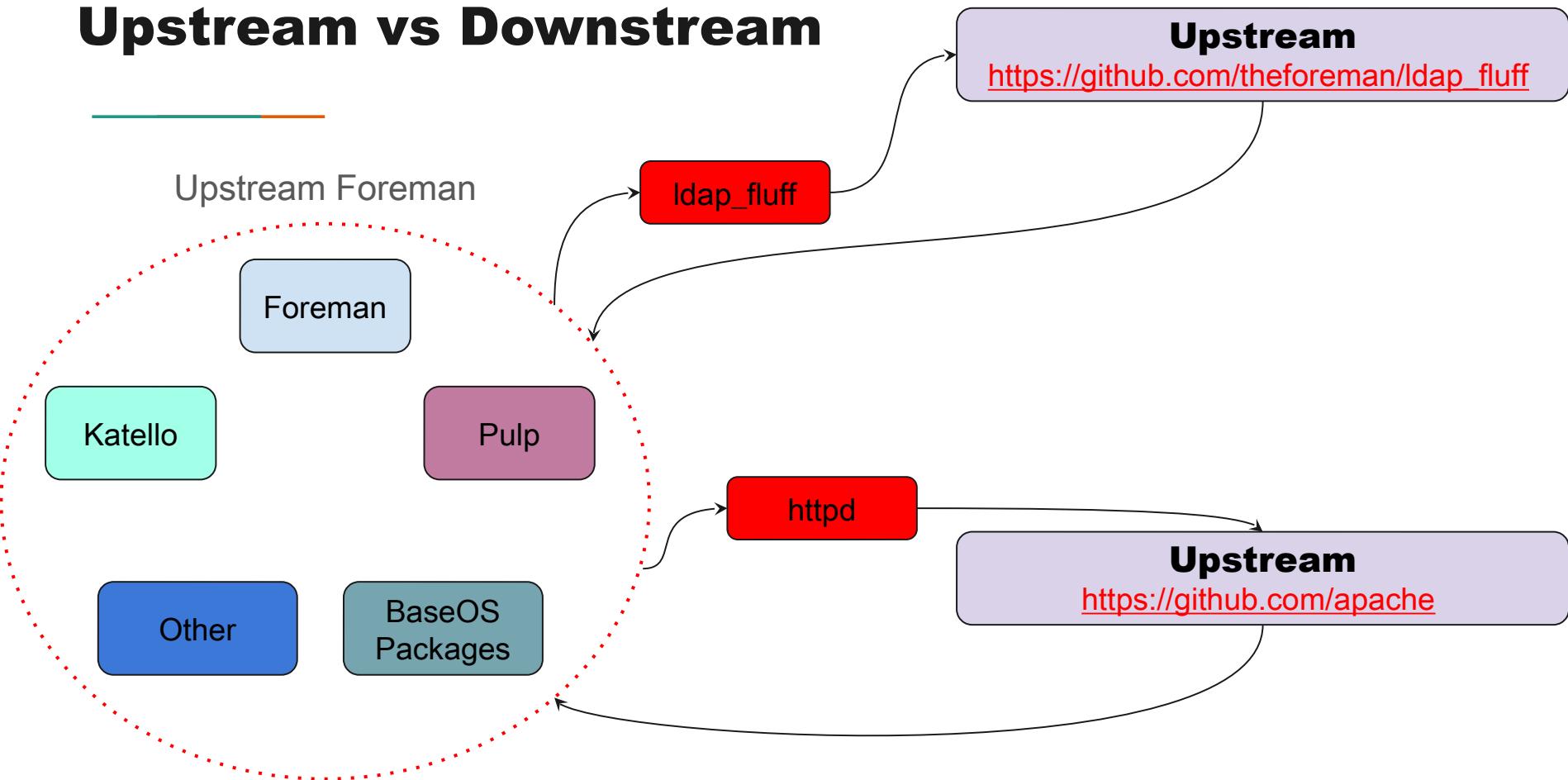
- Upstream or Project
- Downstream or Product



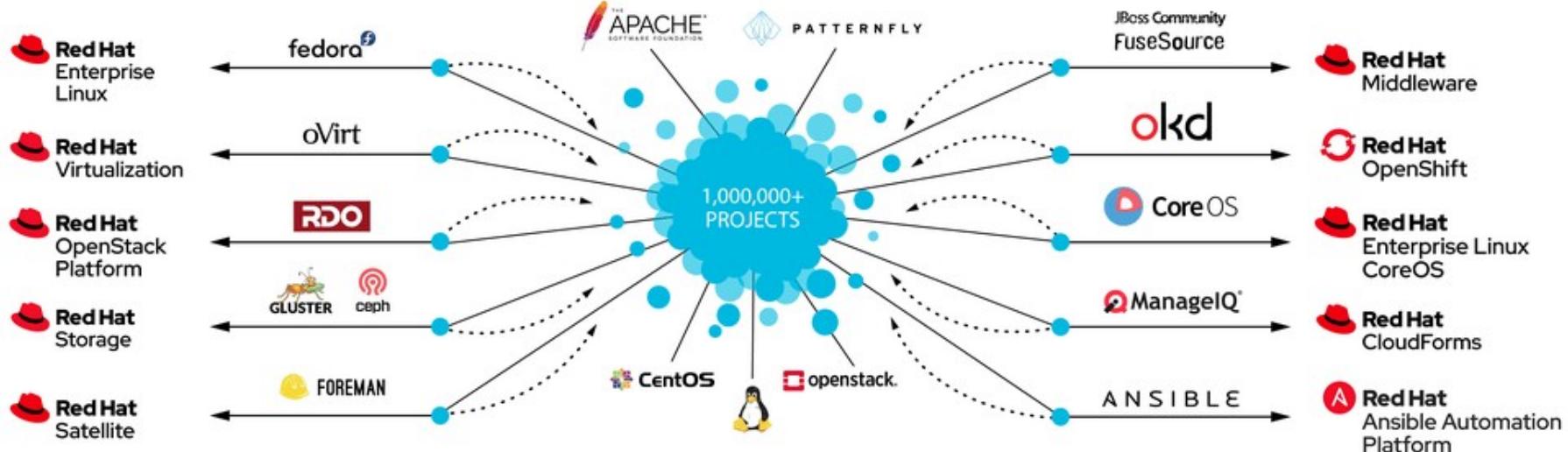
Upstream vs Downstream



Upstream vs Downstream



Upstream vs Downstream



Red Hat Contribution

Red Hat Contribution

- Red Hat Contributes in many different projects

<https://www.redhat.com/en/about/our-community-contributions>

- How we do it?

- *Participate*

We participate in and create community-powered upstream projects.

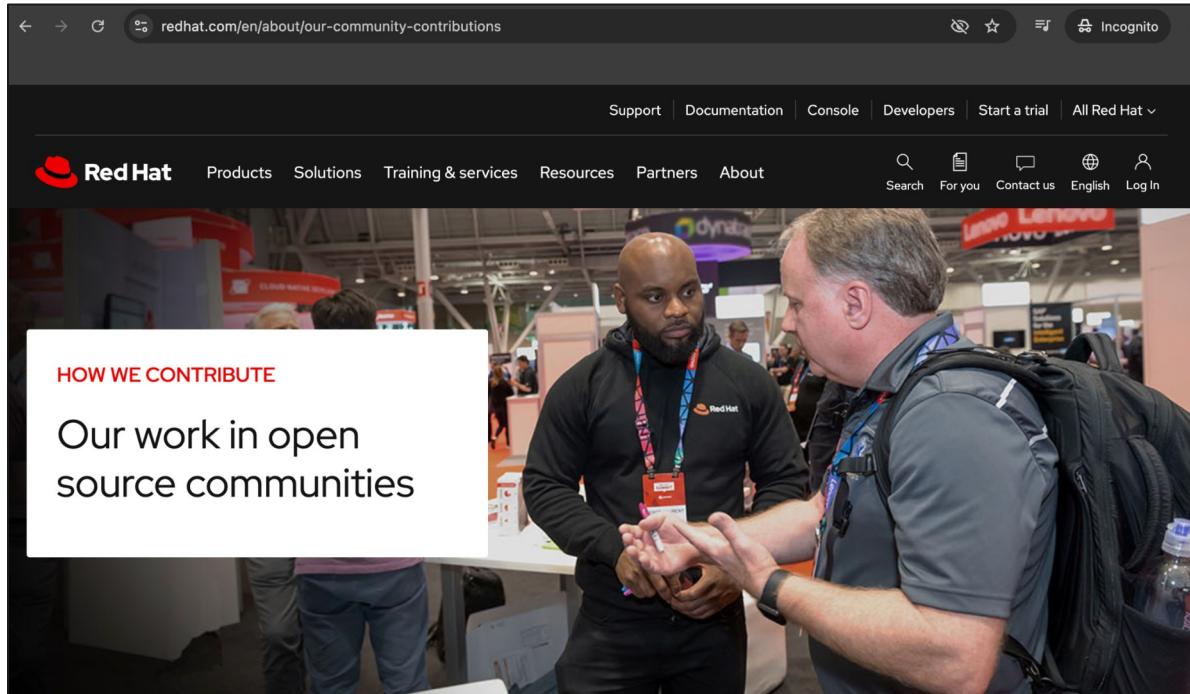
- *Integrate*

We integrate upstream projects, fostering open community platforms.

- *Stabilize*

We commercialize these platforms together with a rich ecosystem of services and certifications.

Red Hat Contribution



The screenshot shows a web browser displaying the Red Hat website at redhat.com/en/about/our-community-contributions. The page features a dark header with navigation links for Support, Documentation, Console, Developers, Start a trial, and All Red Hat. Below the header is a main menu with links for Products, Solutions, Training & services, Resources, Partners, and About. A search bar and language selection (English) are also present. The main content area includes a section titled "HOW WE CONTRIBUTE" with the sub-section "Our work in open source communities". A photograph shows two men at a trade show booth; one man is wearing a Red Hat hoodie and the other is wearing a backpack. At the bottom of the page, there is a "What we do" section and a welcome message from a chatbot.

redhat.com/en/about/our-community-contributions

Support | Documentation | Console | Developers | Start a trial | All Red Hat ▾

Products | Solutions | Training & services | Resources | Partners | About

Search | For you | Contact us | English | Log In

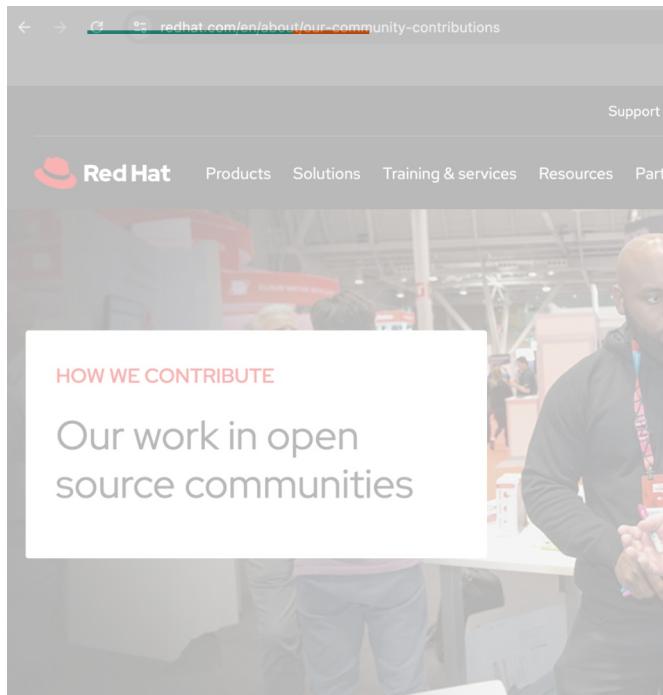
HOW WE CONTRIBUTE

Our work in open source communities

Welcome to Red Hat. What brings you here today?

What we do

Red Hat Contribution



redhat.com/en/about/our-community-contributions

Support

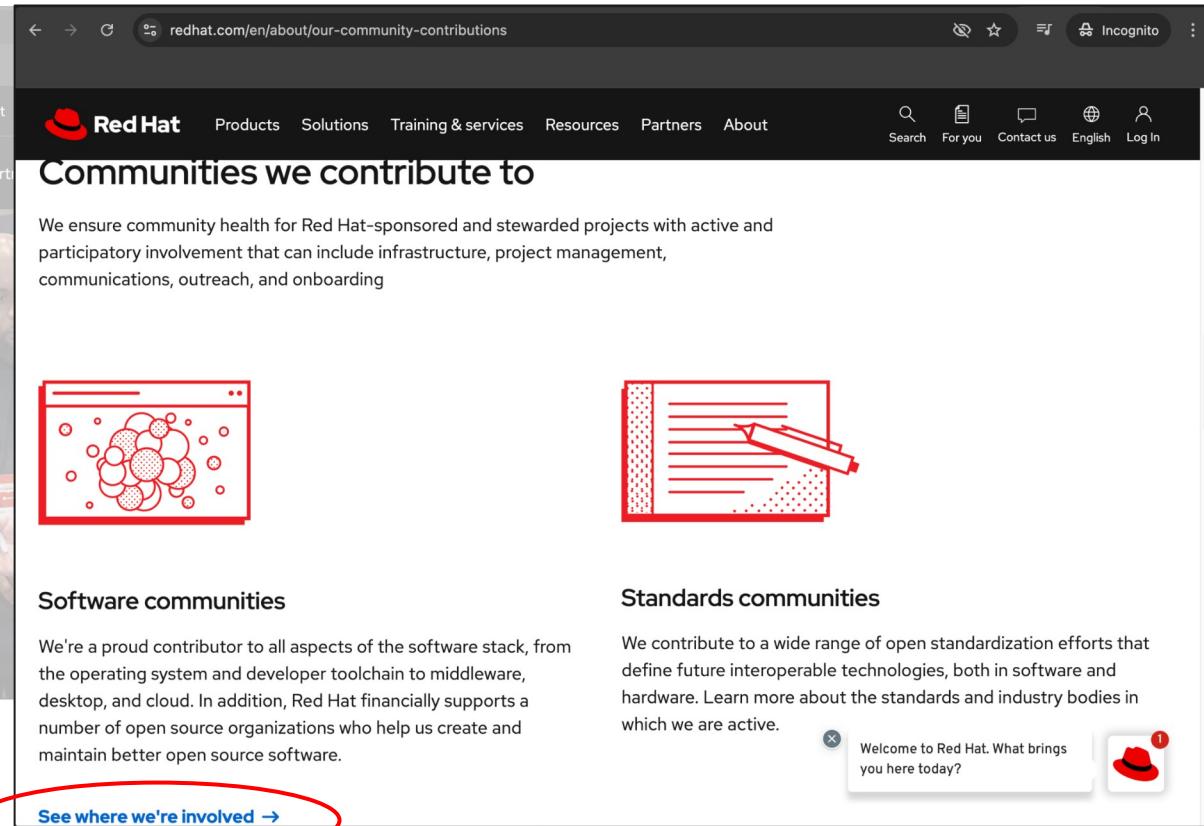
Red Hat Products Solutions Training & services Resources Partners About

Search For you Contact us English Log In

HOW WE CONTRIBUTE

Our work in open source communities

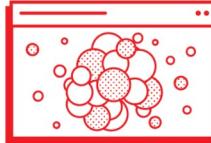
See where we're involved →



redhat.com/en/about/our-community-contributions

Communities we contribute to

We ensure community health for Red Hat-sponsored and stewarded projects with active and participatory involvement that can include infrastructure, project management, communications, outreach, and onboarding



Software communities

We're a proud contributor to all aspects of the software stack, from the operating system and developer toolchain to middleware, desktop, and cloud. In addition, Red Hat financially supports a number of open source organizations who help us create and maintain better open source software.

Standards communities

We contribute to a wide range of open standardization efforts that define future interoperable technologies, both in software and hardware. Learn more about the standards and industry bodies in which we are active.

See where we're involved →

Welcome to Red Hat. What brings you here today?

Red Hat Contribution

redhat.com/en/about/open-source-program-office/contributions

Incognito

Red Hat Products Solutions Training & services Resources Partners About Search For you Contact us English Log In

Software contributions

- Software foundations >
- Operating system >
- Containers >
- Desktop >
- Middleware and identity >
- Operations >
- Storage and compute >
- Developer tools >

Welcome to Red Hat. What brings you here today?  1

Red Hat Contribution

The screenshot shows two side-by-side browser windows displaying the Red Hat website at redhat.com/en/about/open-source-program-office/contributions.

The left window shows a sidebar with categories like Software foundations, Operating system, Containers, Desktop, Middleware and identity, Operations, Storage and compute, and Developer tools. A red vertical line runs down the page, separating the sidebar from the main content area.

The right window shows the main content area with a list of software contributions:

- PackageKit
- pesign
- polkit
- psmisc
- **Pulp** (circled in red)
- PulseAudio
- pungi
- pynfs
- python-nss
- rebase-helper
- Red Hat Update Agent
- **rpm** (circled in red)
- RSYSLOG
- SELinux
- SETroubleshoot
- shim
- Simple Signed Certificate Generator
- Spacewalk
- syslog-ng

A welcome message "Welcome to Red Hat. What brings you here today?" is visible in the bottom right corner of the right window, along with a small icon of a person wearing a red hat.

Red Hat Contribution

redhat.com/en/about/open-source-program-office/contributions

Incognito

Red Hat Products Solutions Training & services Resources Partners About Search For you Contact us English Log In

Software contributions

- Software foundations >
- Operating system >
- Containers >
- Desktop >
- Middleware and identity >
- Operations >
- Storage and compute >
- Developer tools >

Welcome to Red Hat. What brings you here today?  1

Red Hat Contribution

The image shows two side-by-side screenshots of the Red Hat website. The left screenshot is from a mobile browser and displays a sidebar with categories like Software foundations, Operating system, Containers, Desktop, Middleware and identity, Operations, Storage and compute, and Developer tools. The right screenshot is from a desktop browser and shows the same sidebar on the left and a main content area on the right. The main content area has a header with the Red Hat logo, navigation links (Products, Solutions, Training & services, Resources, Partners, About), and user options (Search, For you, Contact us, English, Log In). Below the header is a section titled 'Software contributions' with a list of projects. Two projects are circled: 'Foreman' and 'Katello'. A red vertical line is drawn down the page to separate the sidebar from the main content area.

redhat.com/en/about/open-source-program-office/contributions

Red Hat Products Solutions Training & services Resources Partners About

Search For you Contact us English Log In

Software contributions

- Dynflow
- fedora-selinux
- fence-agents
- Foreman
- fusor
- Heketi
- imagefactory
- Juicer
- Katello
- Kimchi
- Kronosnet
- KVM
- latchset
- libguestfs
- Libre Server
- libqb
- libvirt
- Linchpin
- Memcached

Welcome to Red Hat. What brings you here today?

Basic Project Workflow - *Pulp*

Basic Project Workflow - Pulp

The screenshot shows the Pulp Project homepage on a web browser. The URL in the address bar is `pulpproject.org`. A red circle highlights the three-line menu icon on the left side of the header. Another red circle highlights the GitHub icon and repository information "pulp/pulpcore" with stars and forks counts at the top right of the header.

Pulp Project

Search

pulp/pulpcore
3.58.0 ⭐272 ⚡110

Pulp is an open source project that makes it easy for developers to fetch, upload, and distribute Software Packages on-prem or in the cloud.

[Starter Tutorial](#)

Learn to manage content with Pulp and get yourself familiar with core concepts and workflows.

→ [Getting started](#)

[Why Pulp?](#)

[Pulp in a Container](#)

Use OCI (Open Container Initiative) images to install Pulp in single or multi-container setups.

→ [Installation Quickstart](#)

[Get Involved](#)

The screenshot shows the Pulp Project navigation menu on the right side of the page. It features a blue header with the Pulp logo and the text "Pulp Project". Below the header, there are five menu items, each with a right-pointing arrow:

- HOME
- User Manual
- Developer Manual
- Blog
- Help

Basic Project Workflow - Pulp

The image shows two side-by-side screenshots. On the left is the Pulp Project website (pulpproject.org) featuring a large orange and blue logo, a brief description of the project's purpose, and links for 'Starter Tutorial', 'Getting started', and 'Why Pulp?'. On the right is a screenshot of the GitHub repository page for 'pulp / pulpcore' (github.com/pulp/pulpcore). The GitHub interface includes a navigation bar with 'Code', 'Issues 286', 'Pull requests 11', 'Actions', 'Security', and 'Insights'. Below this is a dropdown menu for branches ('main') and a search bar. A red circle highlights the repository name 'pulp / pulpcore'. The main content area displays a list of recent commits:

Commit	Message	Time Ago
47abf28	pulpbot and mdellweg Update CI files	2 days ago
.ci	Update CI files	last week
.github	Update CI files	2 days ago
CHANGES	Bump minor version	3 days ago
docs	Update REMOTE-USER header d...	2 weeks ago
pulp_certguard	Bump minor version	3 days ago
pulp_file	Bump minor version	3 days ago
pulpcore	Bump minor version	3 days ago

The GitHub page also features an 'About' section with links to the README, license, code of conduct, security policy, activity, custom properties, and social metrics (272 stars, 19 watching, 110 forks).

Basic Project Workflow - Pulp

github.com/pulp

Incognito

Sign in

Pulp

Fetch, Upload, Organize, and Distribute Software Packages

123 followers <http://pulpproject.org> @pulpproj pulp-list@redhat.com

Overview **Repositories 69** Projects 3 Packages People 17

README.md

Fetch, Upload, Organize, and Distribute Software Packages.

If you have to manage hundreds or thousands of packages, Pulp can help!

- Ensure stability and continuity: External content sources can go offline

People



Top languages

- Python
- Shell
- Jinja

A screenshot of the GitHub repository page for the "pulp" project. The page title is "Pulp" and the description is "Fetch, Upload, Organize, and Distribute Software Packages". It shows 123 followers, a website at http://pulpproject.org, and an email list at pulp-list@redhat.com. The navigation bar includes "Overview" (which is active), "Repositories 69" (circled in red), "Projects 3", "Packages", and "People 17". On the left, there's a "README.md" section with the project's description and a note about managing packages. On the right, there are sections for "People" (showing 17 profiles) and "Top languages" (Python, Shell, Jinja). The URL in the browser is github.com/pulp.

Basic Project Workflow - Pulp

The image shows two side-by-side screenshots of the GitHub interface.

Left Screenshot (Organization Page):

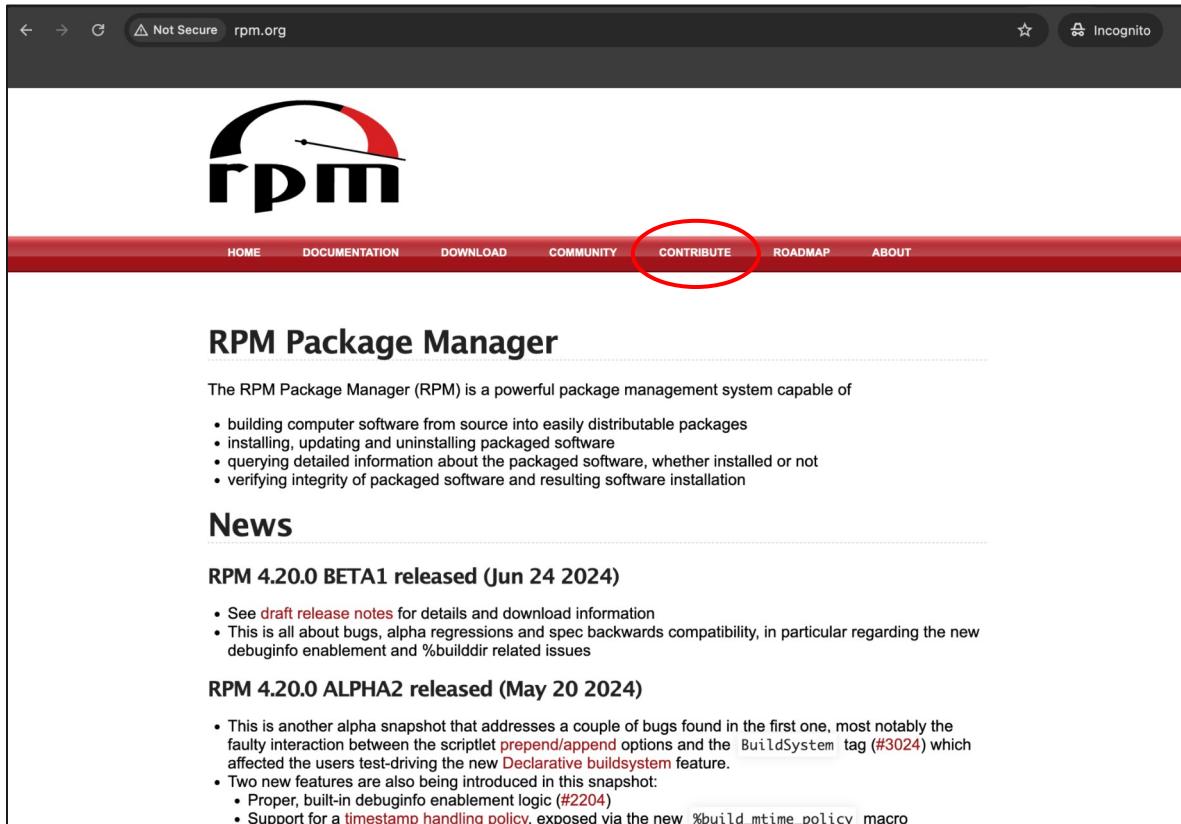
- Header:** Shows the URL `github.com/pulp`.
- Profile Picture:** A logo featuring a stylized orange and green shape with the word "pulp" below it.
- Section Headers:** Overview, Repositories, Projects, Packages.
- Repositories Section:** Shows 69 repositories. One repository is highlighted: **pulp**.
- Description:** Fetch, Upload, Organize, and Distribute Software Packages.
- Metrics:** 123 followers, <http://pulpproject.org>, @pulpproj.
- Files:** README.md.
- Text:** If you have to manage hundreds or thousands of packages, Pulp can help.
- Footnote:** Ensure stability and continuity: External content sources can go down.

Right Screenshot (Repository List):

- Header:** Shows the URL `github.com/orgs/pulp/repositories`.
- Section Headers:** Overview, **Repositories**, Projects, Packages, People.
- Repositories Section:** Shows 69 repositories under the "All" tab.
- Search Bar:** Search repositories.
- Filter:** Last pushed.
- Repositories Listed:**
 - pulp_file** (Public) - A Pulp plugin that manages File content, e.g. repositories of file content.
 - pulp-certguard** (Public) - Pulp plugin that provides an x.509 certificate based content-guard.
 - pulp-docs** (Public) - Python Package to help aggregating Pulp's multirepo ecosystem into a unified doc.
 - pulp_ansible** (Public) - Python package for managing Ansible content in a Pulp repository.

Basic Project Workflow - *RPM*

Basic Project Workflow - RPM



The screenshot shows the official website for the RPM Package Manager (rpm.org). The page features a dark header with the URL "Not Secure rpm.org". Below the header is the RPM logo, followed by a red navigation bar with links: HOME, DOCUMENTATION, DOWNLOAD, COMMUNITY, CONTRIBUTE (which is circled in red), ROADMAP, and ABOUT.

RPM Package Manager

The RPM Package Manager (RPM) is a powerful package management system capable of

- building computer software from source into easily distributable packages
- installing, updating and uninstalling packaged software
- querying detailed information about the packaged software, whether installed or not
- verifying integrity of packaged software and resulting software installation

News

RPM 4.20.0 BETA1 released (Jun 24 2024)

- See [draft release notes](#) for details and download information
- This is all about bugs, alpha regressions and spec backwards compatibility, in particular regarding the new debuginfo enablement and %builddir related issues

RPM 4.20.0 ALPHA2 released (May 20 2024)

- This is another alpha snapshot that addresses a couple of bugs found in the first one, most notably the faulty interaction between the scriptlet `prepend/append` options and the `BuildSystem` tag (#3024) which affected the users test-driving the new `Declarative buildsystem` feature.
- Two new features are also being introduced in this snapshot:
 - Proper, built-in debuginfo enablement logic (#2204)
 - Support for a `timestamp handling policy`, exposed via the new `%build_mtime_policy` macro

Basic Project Workflow - RPM



The screenshot shows the top portion of the rpm.org homepage. It features the RPM logo at the top left. Below the logo is a red navigation bar with white text containing links for HOME, DOCUMENTATION, DOWNLOAD, and COMMUNITY.

RPM Package Manager

The RPM Package Manager (RPM) is a powerful package manager

- building computer software from source into easily distributable packages
- installing, updating and uninstalling packaged software
- querying detailed information about the packaged software, without having to read the documentation
- verifying integrity of packaged software and resulting software installations

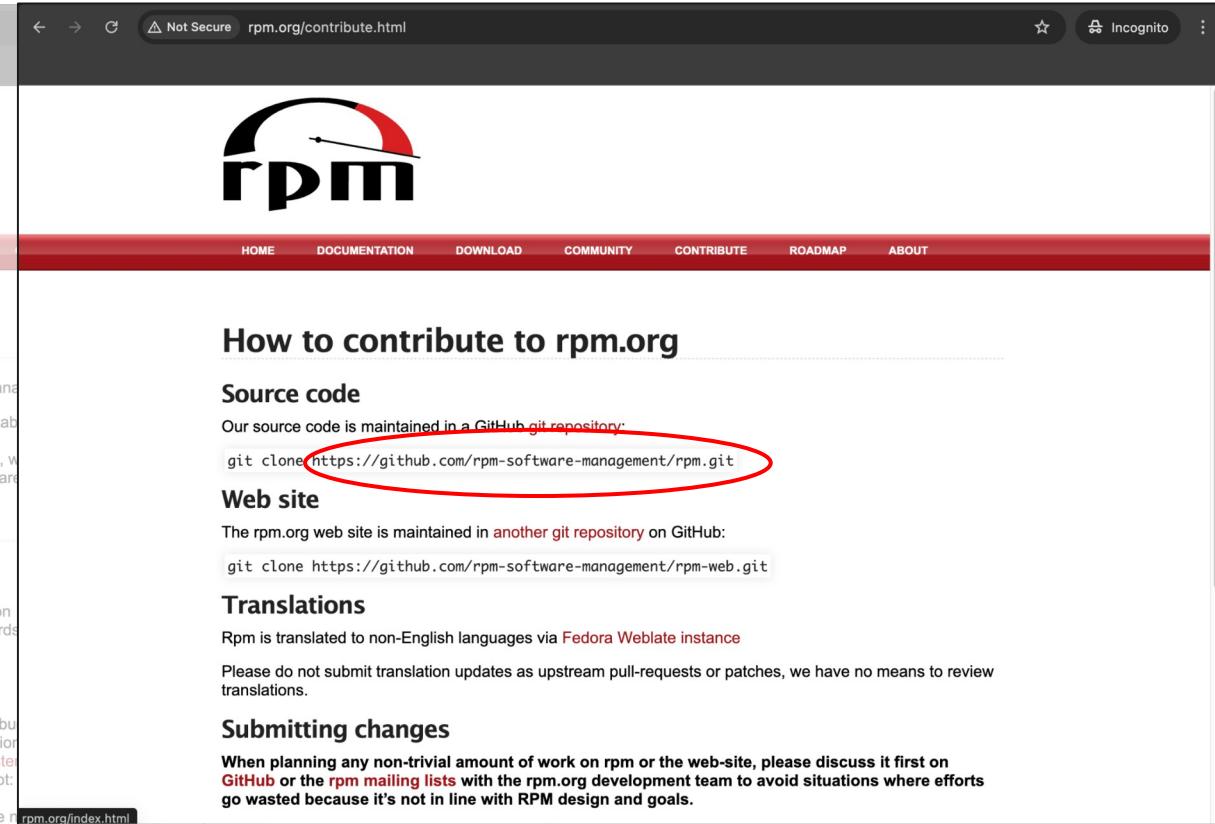
News

RPM 4.20.0 BETA1 released (Jun 24 2024)

- See [draft release notes](#) for details and download information
- This is all about bugs, alpha regressions and spec backwards compatibility, debuginfo enablement and %builddir related issues

RPM 4.20.0 ALPHA2 released (May 20 2024)

- This is another alpha snapshot that addresses a couple of bugs in the faulty interaction between the scriptlet `prepend/append` option which affected the users test-driving the new `Declarative buildsystem`.
- Two new features are also being introduced in this snapshot:
 - Proper, built-in debuginfo enablement logic ([#2204](#))
 - Support for a `timestamp handling policy`, exposed via the `rpmbuild --timestamp-policy` command-line option.



The screenshot shows the 'How to contribute to rpm.org' page. At the top, there is a navigation bar with links for HOME, DOCUMENTATION, DOWNLOAD, COMMUNITY, CONTRIBUTE, ROADMAP, and ABOUT. The main content area has a heading 'How to contribute to rpm.org'. Below it, there is a section titled 'Source code' with the subtext 'Our source code is maintained in a GitHub git repository'. A red circle highlights the 'git clone' command and its URL: `git clone https://github.com/rpm-software-management/rpm.git`. Further down, there is a section titled 'Web site' with the subtext 'The rpm.org web site is maintained in another git repository on GitHub'. Another red circle highlights the 'git clone' command and its URL: `git clone https://github.com/rpm-software-management/rpm-web.git`. Other sections include 'Translations' (with a note about using Fedora Weblate), 'Submitting changes' (with a note about discussing work on GitHub or mailing lists), and a footer link to 'rpm.org/index.html'.

How to contribute to rpm.org

Source code

Our source code is maintained in a GitHub git repository:

```
git clone https://github.com/rpm-software-management/rpm.git
```

Web site

The rpm.org web site is maintained in another git repository on GitHub:

```
git clone https://github.com/rpm-software-management/rpm-web.git
```

Translations

Rpm is translated to non-English languages via [Fedora Weblate](#) instance

Please do not submit translation updates as upstream pull-requests or patches, we have no means to review translations.

Submitting changes

When planning any non-trivial amount of work on rpm or the web-site, please discuss it first on [GitHub](#) or the [rpm mailing lists](#) with the rpm.org development team to avoid situations where efforts go wasted because it's not in line with RPM design and goals.

rpm.org/index.html

Basic Project Workflow - RPM

The screenshot shows a GitHub repository page for 'rpm-software-management/rpm'. The repository is public and has 494 stars, 360 forks, and 252 issues. A red circle highlights the repository name 'rpm-software-management/rpm' in the header. The main content area displays a list of recent commits:

Author	Commit Message	Date
dmnks and pmatilai	Fix memory leak in rpmsign	65fa582 · last week
.github	Work around ASAN incompatibilit...	5 months ago
build	Build: Add include dirs to export...	3 weeks ago
cmake	Add a cmake shortcut to the mac...	last year
docs	Document %__file_name and %__...	2 weeks ago
fileattrs	Properly quote REs in file attributes	last month
include/rpm	Fix doc strings	2 months ago
lib	Fix root relocation regression	3 weeks ago

The right sidebar provides an 'About' summary of the project:

The RPM package manager

[rpm.org](#)

package-manager packages
build-tool

Readme
View license
Activity
Custom properties

494 stars
42 watching
360 forks

Basic Project Workflow - RPM

The image shows two side-by-side screenshots of GitHub project pages.

Left Screenshot (GitHub.com/rpm-software-management/rpm):

- Header:** Shows the URL "github.com/rpm-software-management/rpm".
- Project Information:** "rpm-software-management / rpm" (Public)
- Navigation:** Code (selected), Issues (252), Pull requests (10), Discussions.
- Branches:** master (dropdown).
- Issues:** A list of open issues, including:
 - dmnks and pmatilai Fix memory leak in rpmsign
 - .github Work around ASAN incompatibilit...
 - build Build: Add include dirs to export...
 - cmake Add a cmake shortcut to the mac...
 - docs Document %__file_name and %__...
 - fileattrs Properly quote REs in file attributes
 - include/rpm Fix doc strings
 - lib Fix root relocation regression
- Actions:** Go to file, Issues, Pull requests, Discussions.

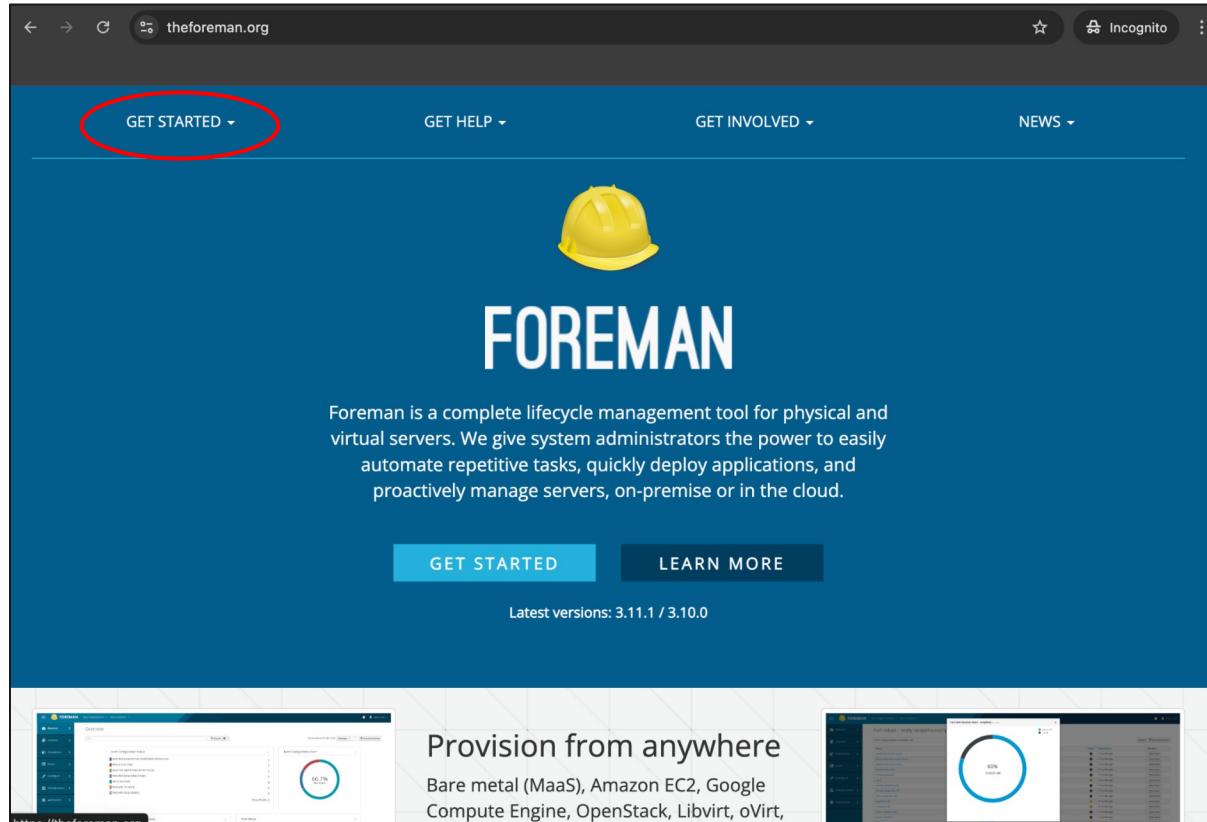
Right Screenshot (GitHub.com/rpm-software-management):

- Header:** Shows the URL "github.com/rpm-software-management".
- Project Information:** "rpm-software-management"
- Navigation:** Overview (selected), Repositories (62, circled in red), Projects (10), Packages, People (13).
- Repos:** Pinned projects:
 - rpm** Public: The RPM package manager. Rating: 4.94 stars, 360 forks.
 - dnf** Public: Package manager based on libdnf and libsolv. Replaces YUM. Rating: 1.2k stars, 409 forks.
 - dnf5** Public: Next-generation RPM package management system.
 - mock** Public: Mock is a tool for a reproducible build of RPM packages.
- People:** A grid of 13 user profile icons.
- Top languages:** Python, C, Perl, Rust.

Complete Project Workflow -

TheForeman

Complete Project Workflow - *TheForeman*



theforeman.org

Incognito

GET STARTED ▾ GET HELP ▾ GET INVOLVED ▾ NEWS ▾

 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: 3.11.1 / 3.10.0

Provision from anywhere
Bare metal (MaaS), Amazon EC2, Google Compute Engine, OpenStack, Libvirt, oVirt,

<https://theforeman.org>

GET STARTED ▾

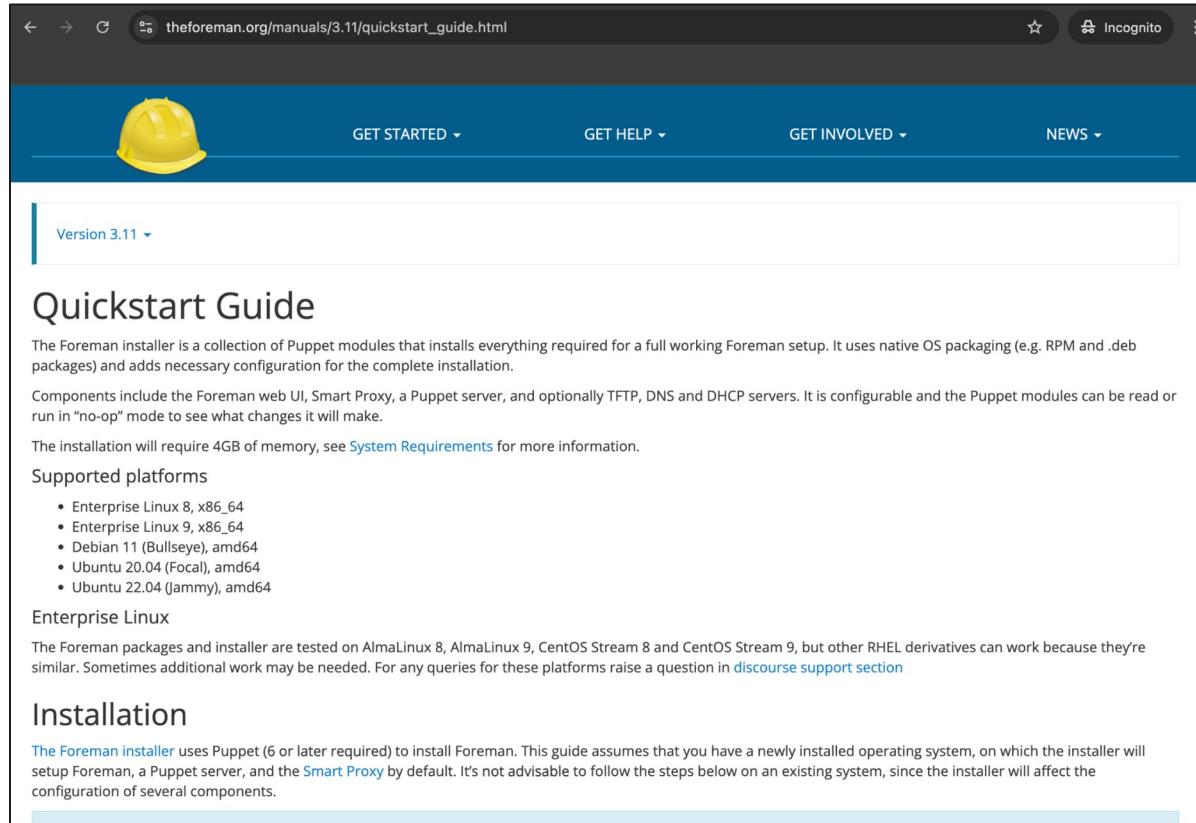
Features

Who uses Foreman

Quickstart

Sponsors

Complete Project Workflow - *TheForeman*

A screenshot of a web browser displaying the Foreman Quickstart Guide. The page has a dark blue header with a yellow hard hat icon on the left. The header includes navigation links: GET STARTED, GET HELP, GET INVOLVED, and NEWS. Below the header, a sidebar on the left shows "Version 3.11". The main content area features a large section titled "Quickstart Guide" with an introduction to the Foreman installer, supported platforms, and enterprise Linux information. A "Installation" section at the bottom discusses the Puppet-based setup process.

theforeman.org/manuals/3.11/quickstart_guide.html

Incognito

GET STARTED ▾

GET HELP ▾

GET INVOLVED ▾

NEWS ▾

Version 3.11 ▾

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 8, x86_64
- Enterprise Linux 9, x86_64
- Debian 11 (Bullseye), amd64
- Ubuntu 20.04 (Focal), amd64
- Ubuntu 22.04 (Jammy), amd64

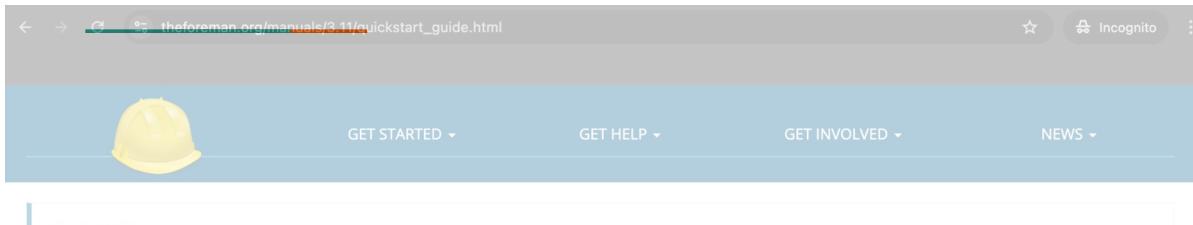
Enterprise Linux

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.

Complete Project Workflow - *TheForeman*



theforeman.org/manuals/3.11/quickstart_guide.html

Incognito

Version 3.11

Supported platforms

- Enterprise Linux 8, x86_64
- Enterprise Linux 9, x86_64
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Complete Project Workflow - *TheForeman*

theforeman.org/manuals/3.11/quickstart_guide.html

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

Repositories
Enable Puppet's 7.x repository:
`sudo dnf -y install https://yum.puppet.com/puppet7-release-el-9.noarch.rpm`

Enable the Foreman repositories:
`sudo dnf -y install https://yum.theforeman.org/releases/3.11/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`

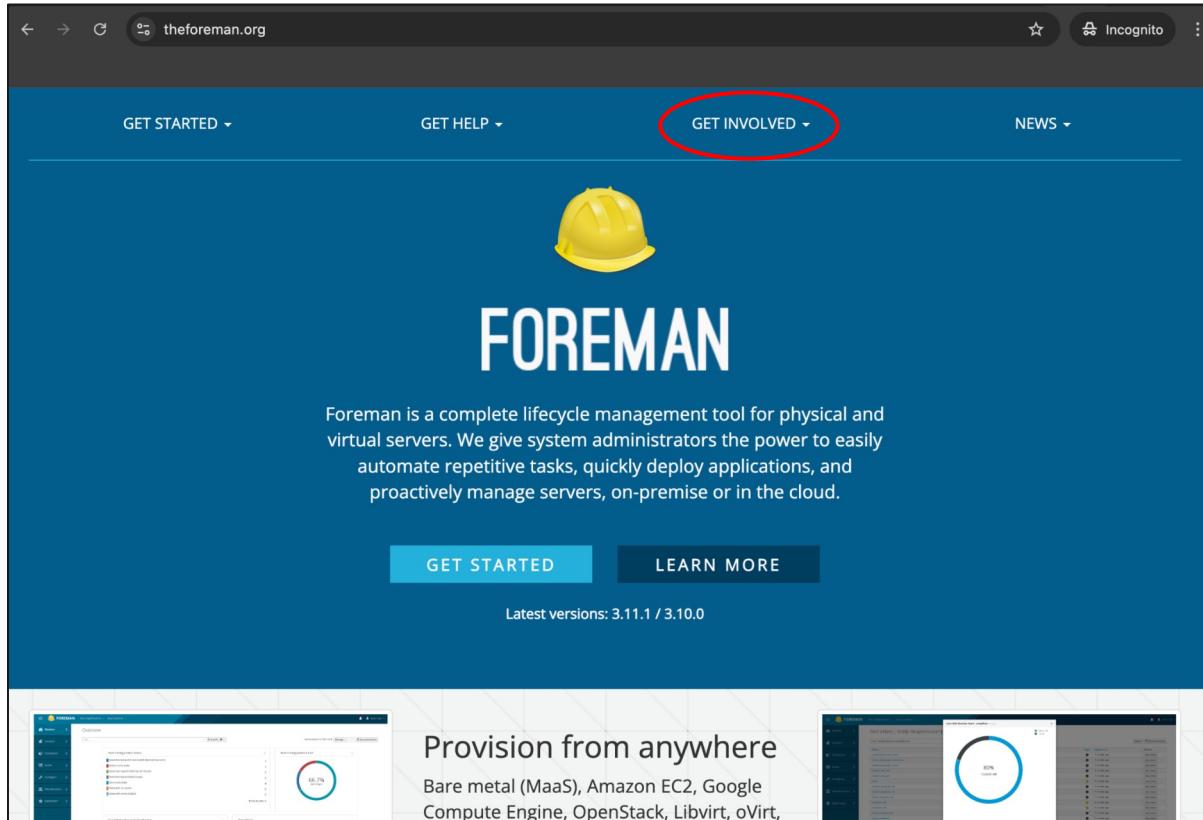
After it completes, the installer will print some details about where to find Foreman and the Smart Proxy. Output should be similar to this:

```
* Foreman is running at https://theforeman.example.com
  Initial credentials are admin / 3ekw5xtYCoXxS29
* Foreman Proxy is running at https://theforeman.example.com:8443
  The full log is at /var/log/foreman-installer/foreman-installer.log
```

Next-generation documentation
Over the last year, Foreman community members have been open-sourcing Red Hat documentation to make more comprehensive guides available to Foreman users. At the moment, the following guides have been migrated to a work-in-progress [Foreman and Katello documentation site](#). This project is not yet complete, but you might find useful information in some of the following guides:



Complete Project Workflow - *TheForeman*



theforeman.org

GET STARTED ▾ GET HELP ▾ GET INVOLVED ▾ NEWS ▾

 FOREMAN

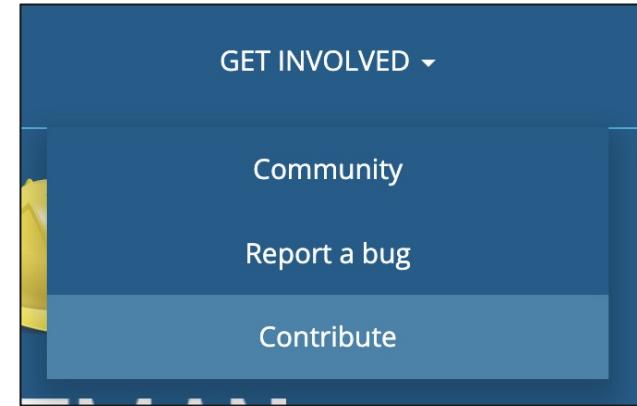
Foreman is a complete lifecycle management tool for physical and virtual servers. We give system administrators the power to easily automate repetitive tasks, quickly deploy applications, and proactively manage servers, on-premise or in the cloud.

GET STARTED LEARN MORE

Latest versions: 3.11.1 / 3.10.0

Provision from anywhere

Bare metal (MaaS), Amazon EC2, Google Compute Engine, OpenStack, Libvirt, oVirt,



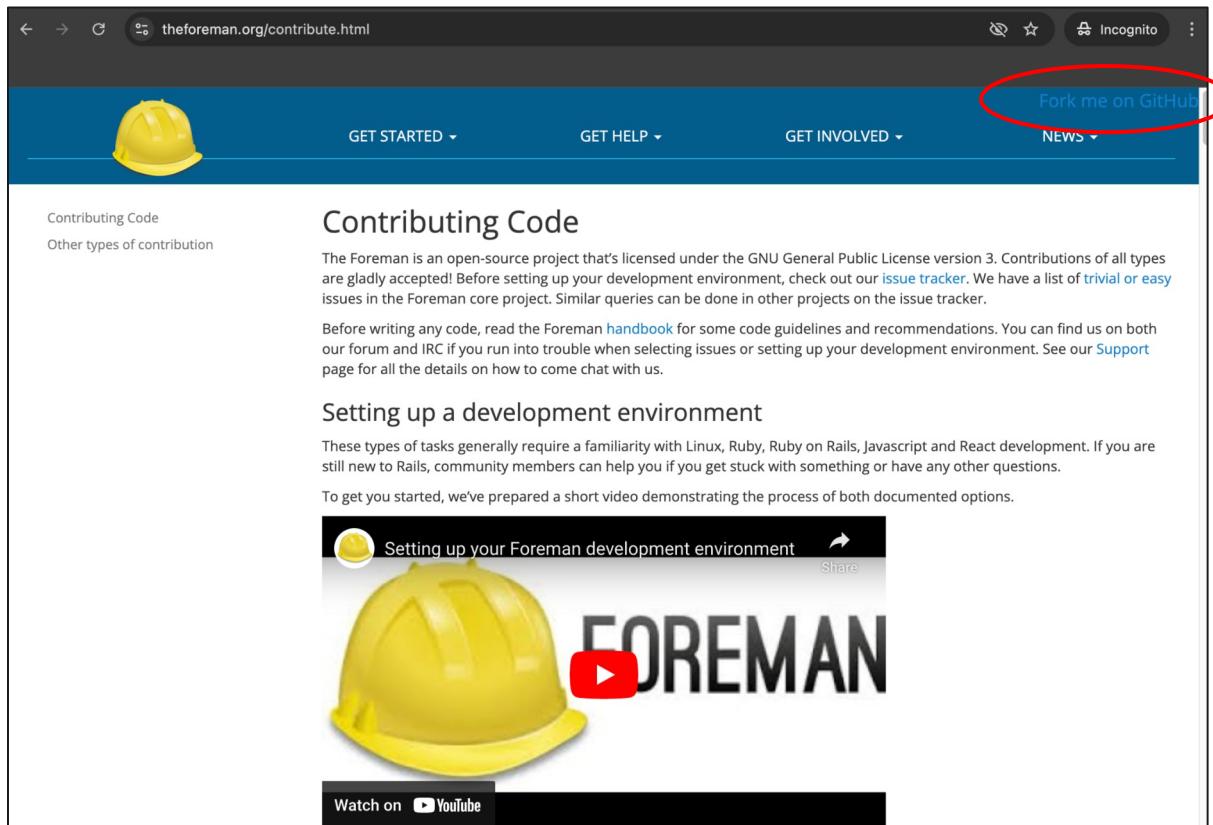
GET INVOLVED ▾

Community

Report a bug

Contribute

Complete Project Workflow - *TheForeman*



theforeman.org/contribute.html

Incognito

Fork me on GitHub

GET STARTED ▾ GET HELP ▾ GET INVOLVED ▾ NEWS ▾

Contributing Code

Other types of contribution

Contributing Code

The Foreman is an open-source project that's licensed under the GNU General Public License version 3. Contributions of all types are gladly accepted! Before setting up your development environment, check out our [issue tracker](#). We have a list of [trivial or easy](#) issues in the Foreman core project. Similar queries can be done in other projects on the issue tracker.

Before writing any code, read the Foreman [handbook](#) for some code guidelines and recommendations. You can find us on both our forum and IRC if you run into trouble when selecting issues or setting up your development environment. See our [Support](#) page for all the details on how to come chat with us.

Setting up a development environment

These types of tasks generally require a familiarity with Linux, Ruby, Ruby on Rails, Javascript and React development. If you are still new to Rails, community members can help you if you get stuck with something or have any other questions.

To get you started, we've prepared a short video demonstrating the process of both documented options.



Setting up your Foreman development environment

Share

Watch on YouTube

Complete Project Workflow - *TheForeman*

theforeman.org/contribute.html

The screenshot shows the 'Contributing Code' section of the Foreman website. It features a yellow hard hat icon, navigation links for 'GET STARTED' and 'GET HELP', and sections for 'Contributing Code' and 'Other types of contribution'. Below these, there's a brief introduction to the project and a link to the handbook. A video thumbnail for 'Setting up your Foreman development environment' is also visible.

<https://theforeman.org/handbook.html>

github.com/theforeman

The screenshot shows the GitHub repository page for 'The Foreman'. The page includes a profile picture of a yellow hard hat, a 'Verified' badge, and statistics like 103 followers and 8 projects. A red circle highlights the 'Repositories' tab, which shows 226 repositories. The main content area displays the README.md file, featuring a large yellow hard hat icon and the word 'FOREMAN' in white. To the right, there are sections for 'People' (showing a grid of developer profiles) and 'Top languages' (Ruby, JavaScript, Python, Shell, HTML).

GitHub stats: 103 followers, 8 projects, 226 repositories

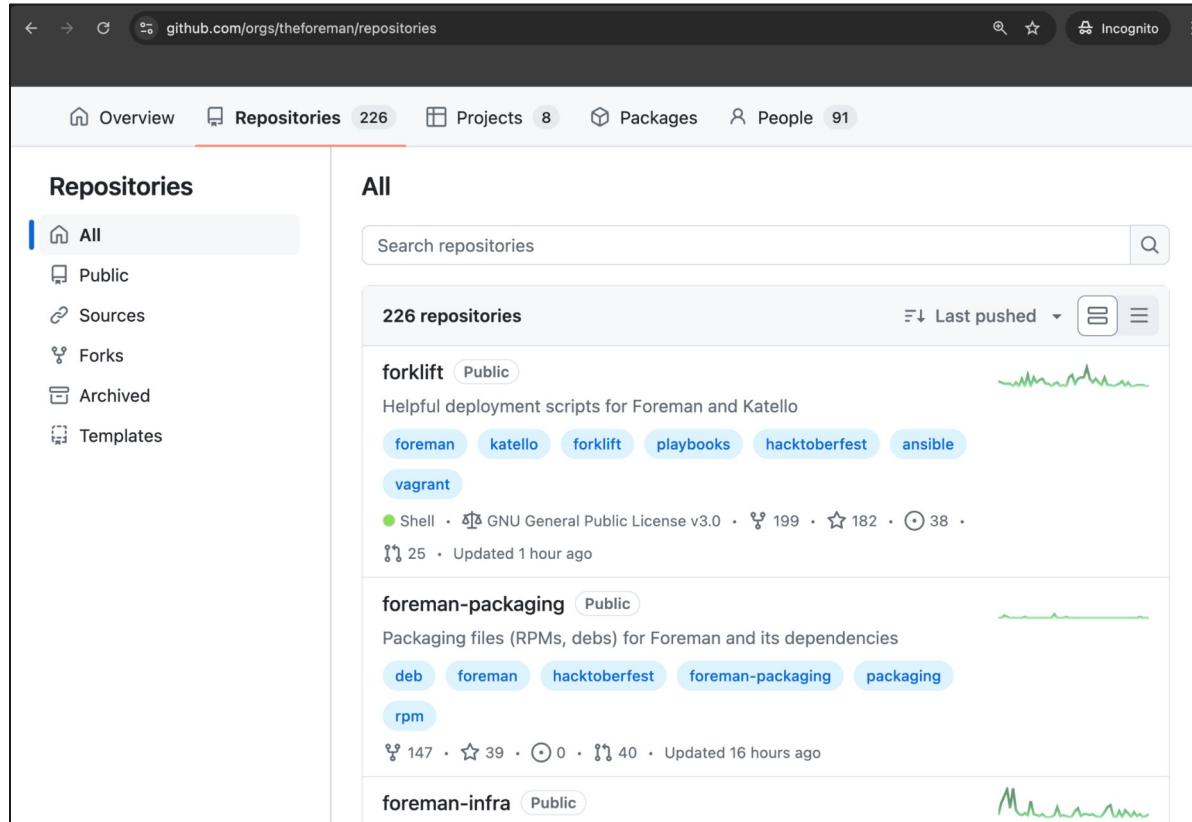
README.md content:

FOREMAN

The Foreman Project

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

Complete Project Workflow - *TheForeman*



A screenshot of a web browser showing the GitHub organization page for "theforeman". The URL in the address bar is `github.com/orgs/theforeman/repositories`. The page has a dark mode header with icons for back, forward, search, star, and incognito.

The main navigation bar includes links for Overview, **Repositories 226**, Projects 8, Packages, and People 91. The "Repositories" tab is selected, indicated by an orange underline.

The left sidebar under "Repositories" shows filters: All (selected), Public, Sources, Forks, Archived, and Templates.

The main content area displays a list of repositories:

- forklift** (Public)
Helpful deployment scripts for Foreman and Katello
Tags: foreman, katello, forklift, playbooks, hacktoberfest, ansible, vagrant
Metrics: Shell, 199 stars, 182 forks, 38 issues, 25 pull requests, Updated 1 hour ago
- foreman-packaging** (Public)
Packaging files (RPMs, debs) for Foreman and its dependencies
Tags: deb, foreman, hacktoberfest, foreman-packaging, packaging, rpm
Metrics: 147 stars, 39 forks, 0 issues, 40 pull requests, Updated 16 hours ago
- foreman-infra** (Public)

Each repository card features a small green waveform icon to the right of the repository name.

Complete Project Workflow - *TheForeman*

The screenshot shows two side-by-side GitHub browser windows. The left window displays the user's repositories page, showing 226 repositories. The right window shows the detailed view of the 'foreman' repository, which is public and has 83 pull requests.

GitHub Repository View:

- Code tab:** Shows 83 pull requests.
- Recent Pull Requests:**

 - chris1984 and ekohl Fixes #37623 - Use html format in r... 44160c0 · 2 days ago
 - .github properly fail the "Test Suite" chec... 4 days ago
 - .tx i18n - extracting new, pulling fro... 9 months ago
 - app Fixes #37623 - Use html format i... 2 days ago
 - bin Fixes #23962 - Fix Style/ExpandP... 6 years ago
 - bundler.d Refs #34839 - require fog-vsphere... 2 weeks ago
 - config Fixes #37458 - Fix Style/CaseLik... 3 weeks ago
 - db Fixes #37059 - Templates - clone... last month
 - developer_docs Fixes #37293 - Add user columns... 4 months ago

- About section:** Describes the project as "an application that automates the lifecycle of servers".
- Tags:** ruby, rails, infrastructure, puppet, cloud, config-management, virtualization, provisioning, infrastructure-management, foreman, theforeman, maas, hacktoberfest, hybrid-cloud.
- Links:** Readme, GPL-3.0 license, Activity, Custom properties.

Complete Project Workflow - *TheForeman*

github.com/katello

Katello Project

15 followers | The Internet | http://www.katello.org | foreman-dev@googlegroups.com

Overview Repositories 40 Projects Packages People 49

Pinned

katello Public

Katello integrates open source systems management tools into a single solution for controlling the lifecycle of your machines.

JavaScript 379 Python 52 63

katello-client-bootstrap Public

Bootstrap Script for migrating systems to Foreman & Katello

Python 52 63

hammer-cli-katello Public

Next-gen CLI tool for Katello (Katello-specific commands)

Ruby 26 83

katello-installer Public archive

Puppet-based installer for Katello

16 58

katello-packaging Public archive

[DEPRECATED] Packaging for Katello

People

[View all](#)

Top languages

- Ruby
- Python
- JavaScript
- Puppet
- HTML

Complete Project Workflow - *TheForeman*

A screenshot of a web browser displaying two GitHub project pages side-by-side.

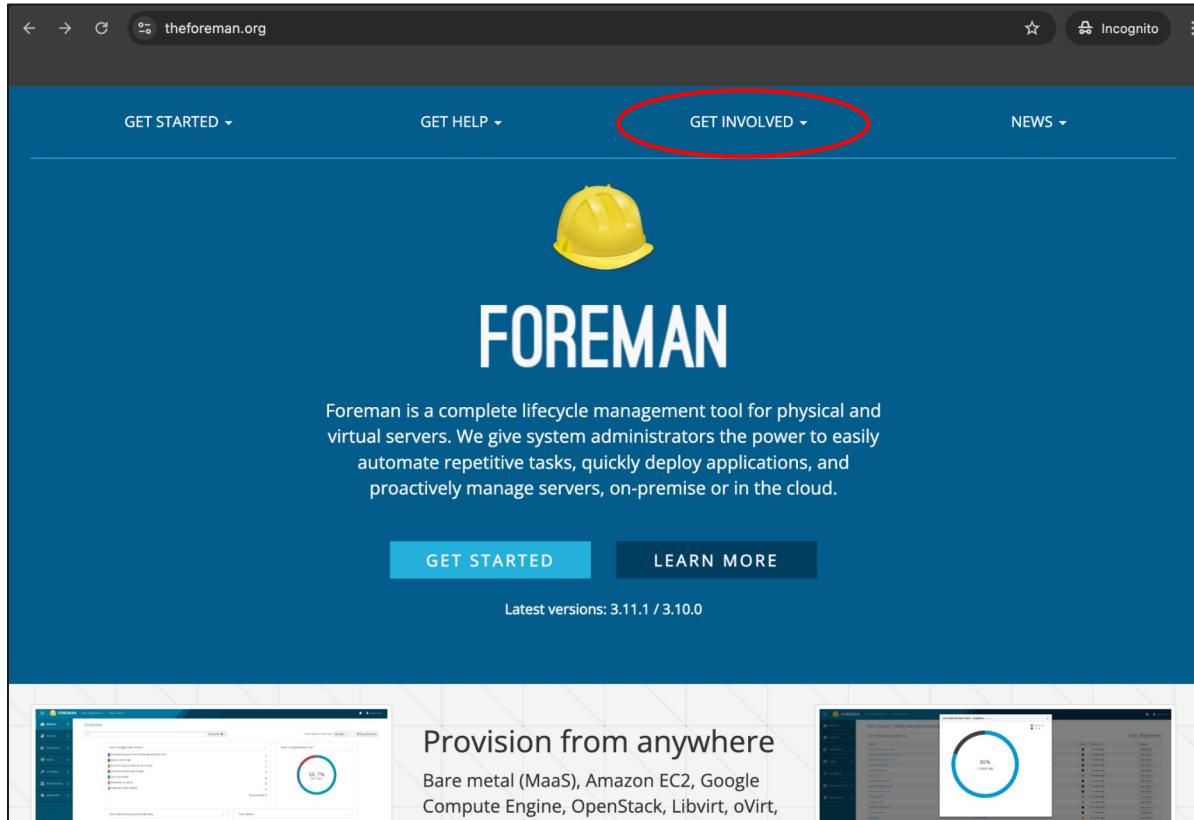
The left page shows the "Katello Project" repository. It has a profile picture of a castle, 15 followers, and 40 repositories. Below this, there's a "Pinned" section with cards for "katello", "hammer-cli-katello", and "katello-packaging".

The right page shows the "Katello / katello" repository. It has a "Code" tab selected, showing a dropdown menu with "master" and a red arrow pointing to it. Below the dropdown is a yellow box containing the text "Where is the Issues tab?". Other tabs visible include "Pull requests", "Actions", "Projects", "Wiki", "Security", and "Insights".

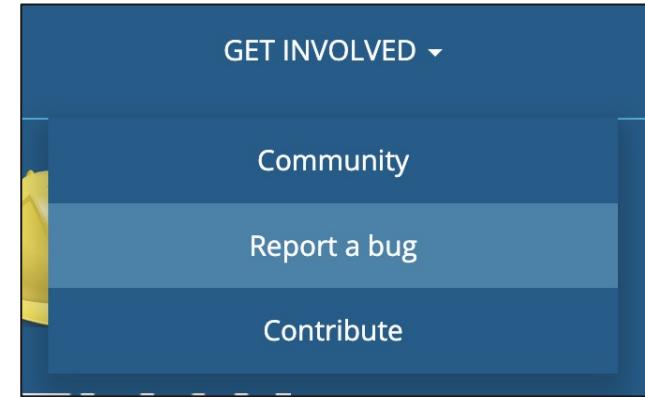
On the right side of the right page, there's an "About" section describing Katello and links to its documentation and GitHub issues. There are also buttons for "Readme", "GPL-2.0 license", "Activity", "Custom properties", and a star count of 379.

Category	Item	Description	Last Update
katello	.storybook	Fixes #21931 - Add react-storybo...	7 years ago
	.tx	i18n - extracting new, pulling fro...	last year
	app	Fixes #37739 - drop Katello.with_...	2 days ago
	bin	Fixes #15035 - Adding rails script...	8 years ago
	ca	Fixes #36326 - Sync redhat-uep....	last year
	config	Fixes #37739 - drop Katello.with_...	2 days ago
	db	Fixes #37739 - drop Katello.with_...	2 days ago
	engines	Fixes #37739 - drop Katello.with_...	2 days ago

Complete Project Workflow - *TheForeman*

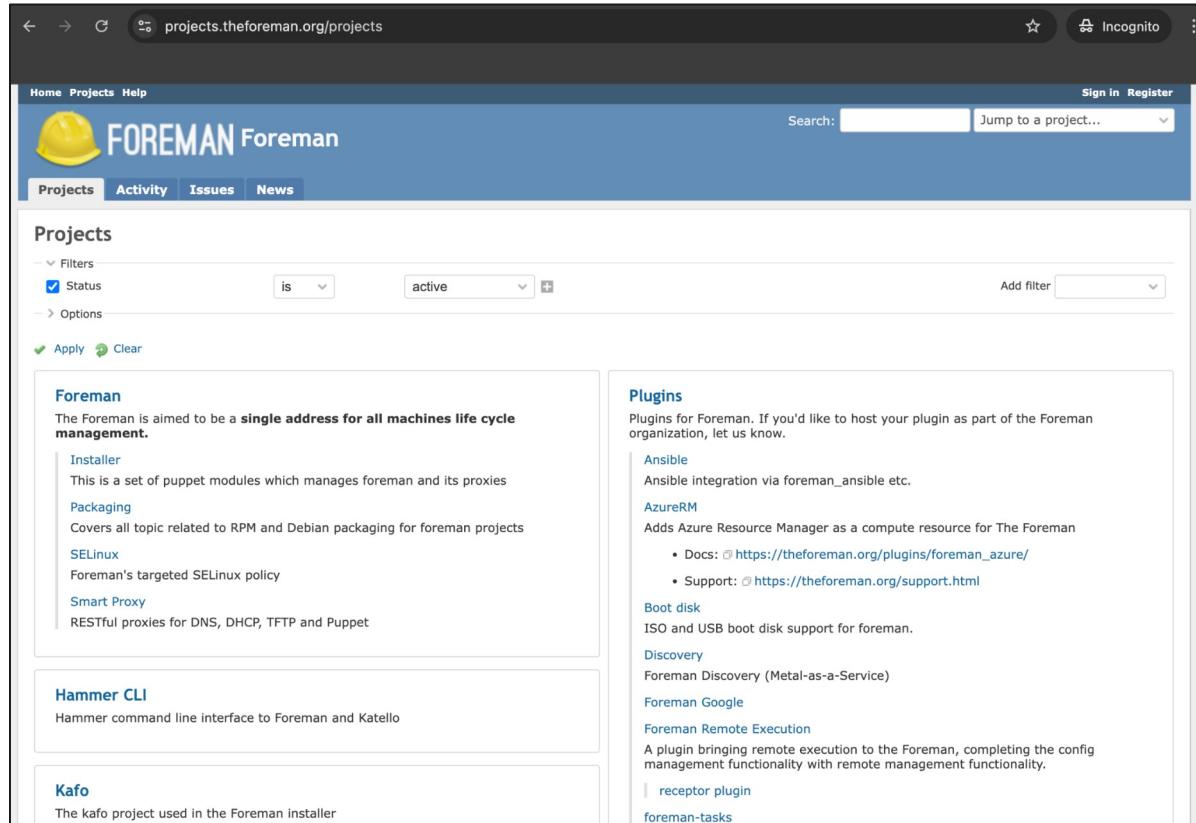


The screenshot shows the homepage of theforeman.org. At the top, there is a navigation bar with links for "GET STARTED", "GET HELP", "GET INVOLVED" (which is circled in red), and "NEWS". Below the navigation is a large yellow hard hat icon and the word "FOREMAN" in large white letters. A descriptive paragraph explains that Foreman is a lifecycle management tool for physical and virtual servers, allowing administrators to automate tasks and manage servers on-premise or in the cloud. Two buttons at the bottom are "GET STARTED" (blue) and "LEARN MORE" (dark blue). A note at the bottom states "Latest versions: 3.11.1 / 3.10.0". At the very bottom, there are two small screenshots of the Foreman interface showing server inventories and deployment progress.



The screenshot shows the "GET INVOLVED" dropdown menu from the foreman.org website. It includes a "Community" link, a "Report a bug" link, and a "Contribute" link. The background of the menu is dark blue, and the text is white.

Complete Project Workflow - *TheForeman*



A screenshot of the Foreman project page on GitHub at projects.theforeman.org/projects. The page has a dark blue header with the Foreman logo and navigation links for Home, Projects, Help, Sign in, and Register. A search bar and a 'Jump to a project...' dropdown are also present. The main content area is titled 'Projects' and shows a list of projects under 'Foreman'. The 'Foreman' project is described as a single address for all machines life cycle management, featuring an Installer (Puppet modules), Packaging (RPM and Debian packaging), SELinux (targeted SELinux policy), and Smart Proxy (RESTful proxies). Below this, there are sections for 'Hammer CLI' (command line interface) and 'Kafo' (Foreman installer). To the right, there's a 'Plugins' section listing Ansible (Ansible integration), AzureRM (Azure Resource Manager support), Boot disk (ISO and USB boot disk support), Discovery (Foreman Discovery), Foreman Google, and Foreman Remote Execution (remote execution plugin). The page uses a light gray background with white and dark blue accents.

Complete Project Workflow - *TheForeman*

The screenshot displays two views of the Foreman project management system. On the left is the 'Projects' page, featuring a sidebar with links like 'Foreman', 'Installer', 'Packaging', 'SELinux', 'Smart Proxy', 'Hammer CLI', and 'Kafo'. The main content area shows a summary of the Foreman project, mentioning it's a single address for machine life cycle management, and lists 'Installer', 'Packaging', 'SELinux', and 'Smart Proxy' modules. On the right is the 'Issues' page, showing a table of open issues across various projects (Foreman, Katello, Ansible, etc.). The table includes columns for ID, Project, Tracker, Status, Priority, Subject, and Author. A sidebar on the right provides 'Custom queries' for filtering issues.

Issues

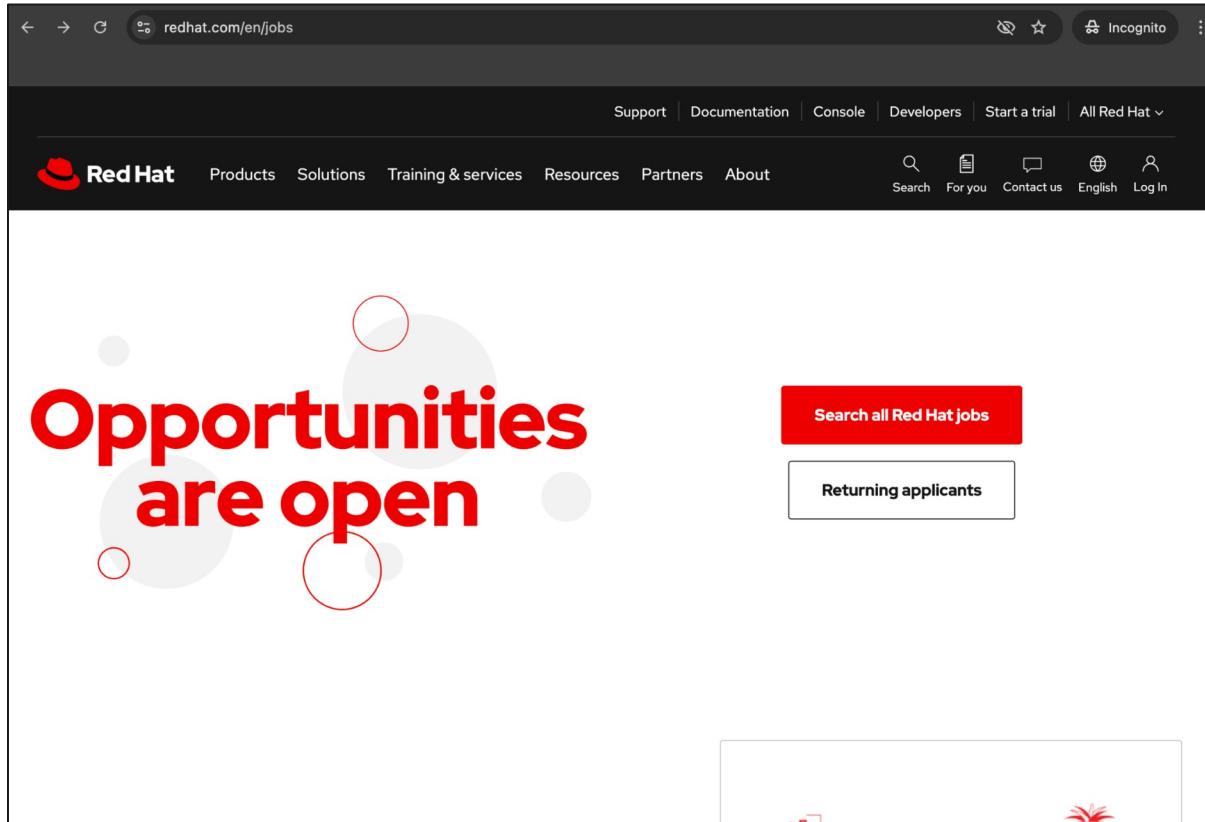
#	Project	Tracker	Status	Priority	Subject	Author
37741	Foreman	Bug	New	Normal	Indentation of snippets can cause errors in bash scripts, if heredoc is used in the template.	Shimon Sht
37740	Katello	Bug	New	High	Smart proxies can serve incorrect content if remote is nil	Thomas Masl
37737	Foreman	Feature	Ready For Testing	Normal	Expose expiration time through unused registration param	Lukas Zaple
37735	Foreman Remote Execution	Feature	New	Normal	Add a setting to exclude infrastructure hosts from remote execution search query	Hao Yu
37733	Ansible	Feature	Ready For Testing	Normal	Add audits of ansible roles being added or removed to/from hosts	Adam Lazil
37732	Katello	Bug	Ready For Testing	Normal	"Remove Repositories" button not shown for non-admin users with "destroy_repositories" permission	Thorben Den
37731	Foreman	Bug	Ready For Testing	Normal	Incorrect Network at displayed host/edit page in the interface tab when importing host from compute resources	Girija Soni
37730	Foreman	Feature	Ready For Testing	Normal	Use http proxy in provisioning templates if host parameter has been set	Nadja Heitma
37729	Katello	Feature	New	Normal	Version option for deb filter rules	TJ Guthrie
37728	Katello	Bug	Ready For Testing	Normal	Remote execution controller still	Jeremy Len

Custom queries

- All issues closed in the last 3 weeks
- Easy and Trivial Issues
- Good first issues - Foreman core
- Mine
- My issues closed in the last 3 weeks
- Untriaged and opened in the past two weeks

Open Jobs / Opportunities

Open Jobs / Opportunities



A screenshot of a web browser displaying the Red Hat job opportunities page at redhat.com/en/jobs. The page features a large red banner with the text "Opportunities are open" overlaid on a background of overlapping circles. At the top, there is a navigation bar with links to Support, Documentation, Console, Developers, Start a trial, and All Red Hat. Below the navigation bar, there is a secondary navigation menu with links to Red Hat products, solutions, training & services, resources, partners, and about. There are also links for search, for you, contact us, English, and log in. A prominent red button labeled "Search all Red Hat jobs" is located on the right side of the banner.

<https://jobs.redhat.com>

Recap

Recap

- Upstream / Open Source Projects
- Red Hat
- Upstream vs Downstream
- Red Hat Contribution
- Basic Project Workflow (Pulp & RPM)
- Complete Project Workflow (TheForeman)
- Open Jobs / Opportunities

The Big Question!

The Big Question!

Would you like to be ready for an interview when a company
is looking for a Red Hat experienced person?

Questions???

Thank you!

Contacts



[@waldirio](https://www.youtube.com/@waldirio)



@waldirio



[@waldirio](https://www.linkedin.com/in/waldirio)



[@waldirio](https://www.instagram.com/@waldirio)



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Wally's Server
<https://discord.com/invite/SVbWFZx9vE>



<https://waldirio.com.br>