

A New Way to Assemble Red Hat Enterprise Linux

Image Builder Hosted Service

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The IT Guy

Fighting against the forces of burnout and poor work-life balance, The IT Guy stands for DevOps, Open Source, and an endless supply of passion!



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What we will discuss today:

- ▶ Difficulties with deployments
- ▶ The new way to RHEL
- ▶ What is coming?
- ▶ How does it work?

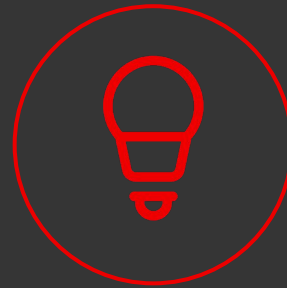
Difficulties with deployments

Common OS deployment challenges



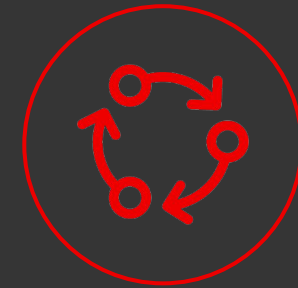
Provisioning time

Significant time and resources are required to install and optimize OS installations.



Complexity at scale

Numerous tools and complex configuration options vary based on chosen environments.



Consistency across environments

Consistent, high-quality images for each runtime environment are difficult to build and repeat.

The New Way to RHEL

Red Hat Enterprise Linux Image Builder **saves you time** and **reduces complexity** when deploying optimized systems across your datacenter and cloud footprints.

Image Builder use cases for the hybrid cloud

Consistency across all runtime environments—from the datacenter to the cloud



Public cloud

Accelerate cloud workload migrations and reduce provisioning time with build and push capabilities to AWS, Azure, and GPC, or build image compatibility with other public cloud providers.



Private cloud

Standardize private cloud infrastructure with consistent, streamlined images specifically optimized for virtual environments such as VMware, Openstack, Openshift, and more.



Physical

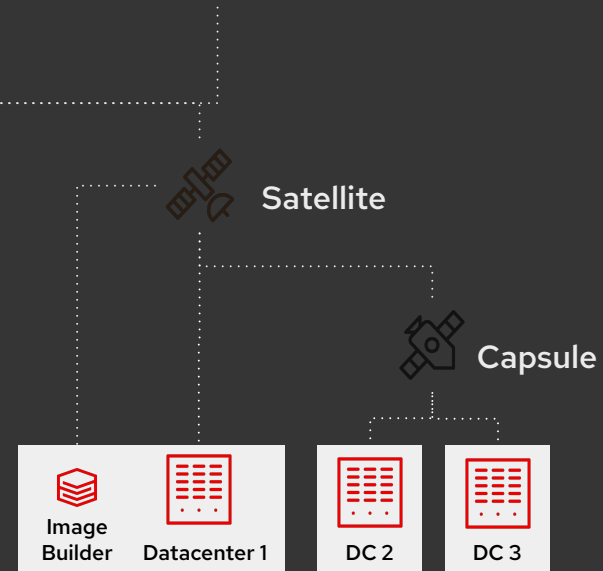
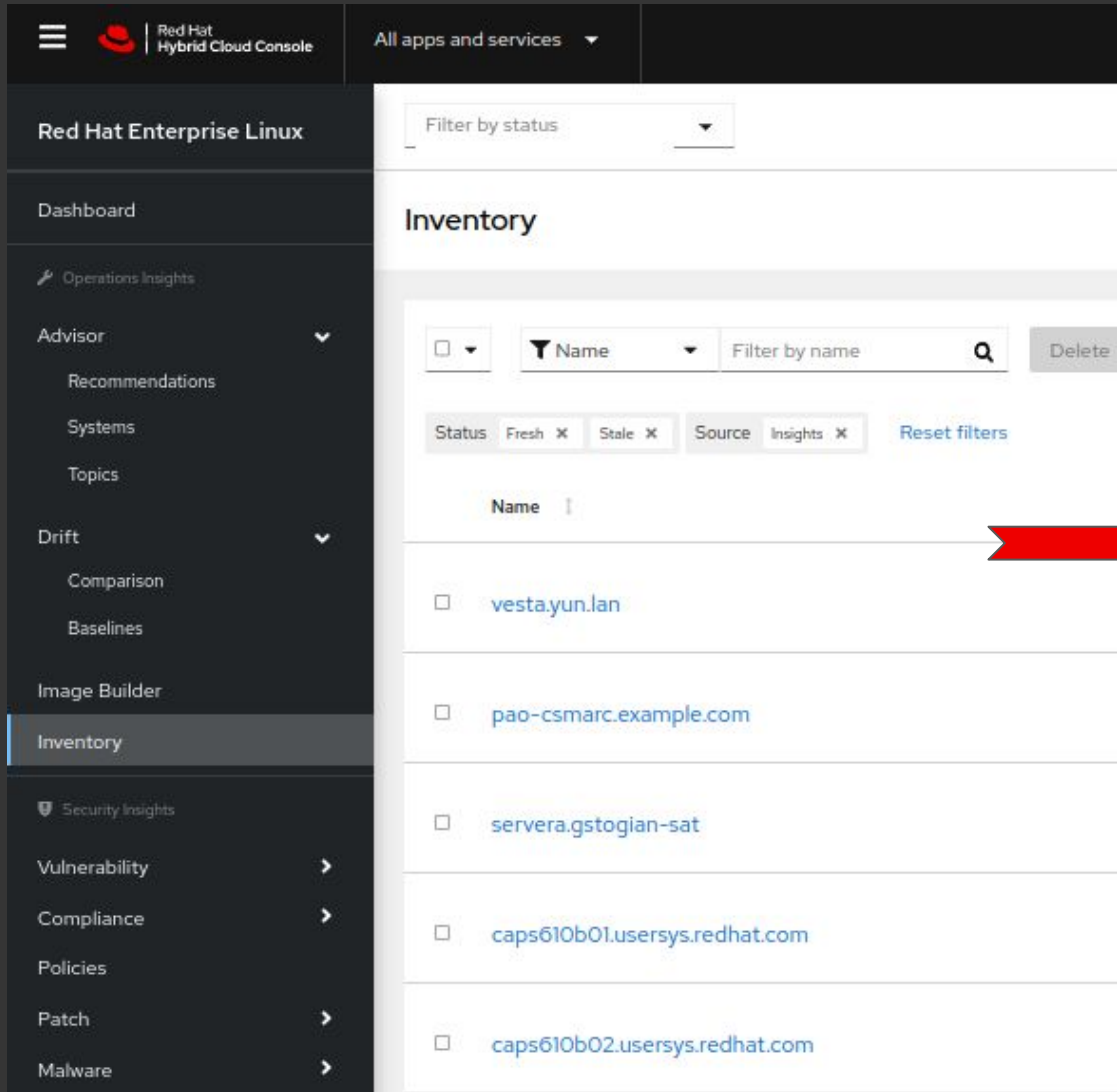
Save time and make the most of existing and future application investments by creating customized OS "Gold" images to deploy across physical systems.

Introducing: RHEL Image Builder hosted service

- Quickly create consistent, customized gold images
- Suitable for most hybrid-cloud environments
- No build infrastructure required
- Simple integration into deployment workflows
- Used to build Red Hat provided cloud images



New Way to RHEL



Steps for using image builder



1. Choose platform

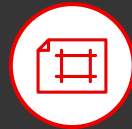
Physical, private cloud, public cloud, or edge



2. Select image builder tool

Image builder service
console.redhat.com

Image builder
On-premises private build



3. Create blueprint

Define and customize the image



4. Build the image

Create a variety of images including Red Hat OpenStack, Amazon Web Services, VMware, and Microsoft Azure, and more



5. Deploy instance

Push image to the cloud provider of your choice or download to your datacenter

Roadmap

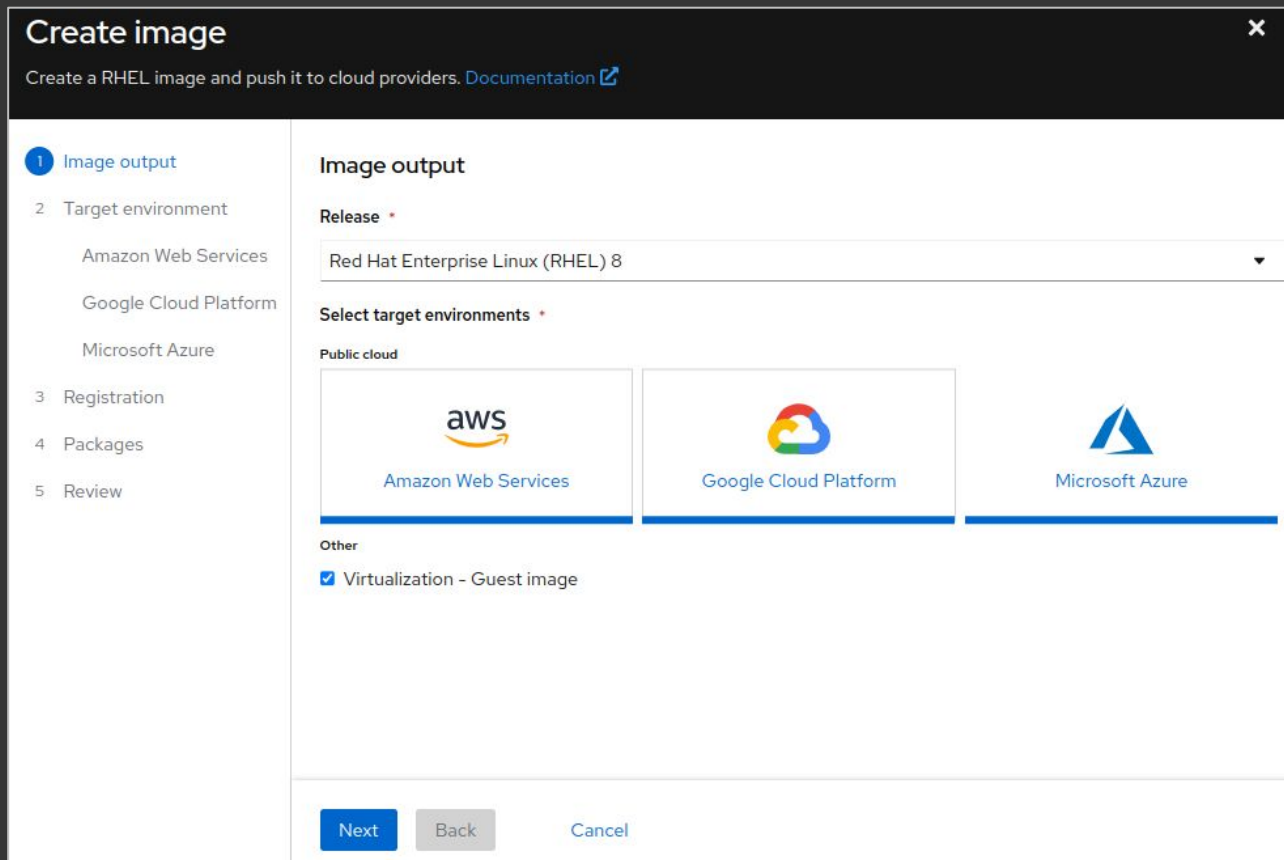
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Image Builder hosted service

What's available now?



Versions of RHEL

- RHEL 8.latest (8.5)
- CentOS Stream 8
- RHEL 9.0*
- CentOS Stream 9*

Supported Cloud Partners

- Amazon Web Services
- Google Cloud Platform
- Microsoft Azure

Hybrid-Cloud Image Types

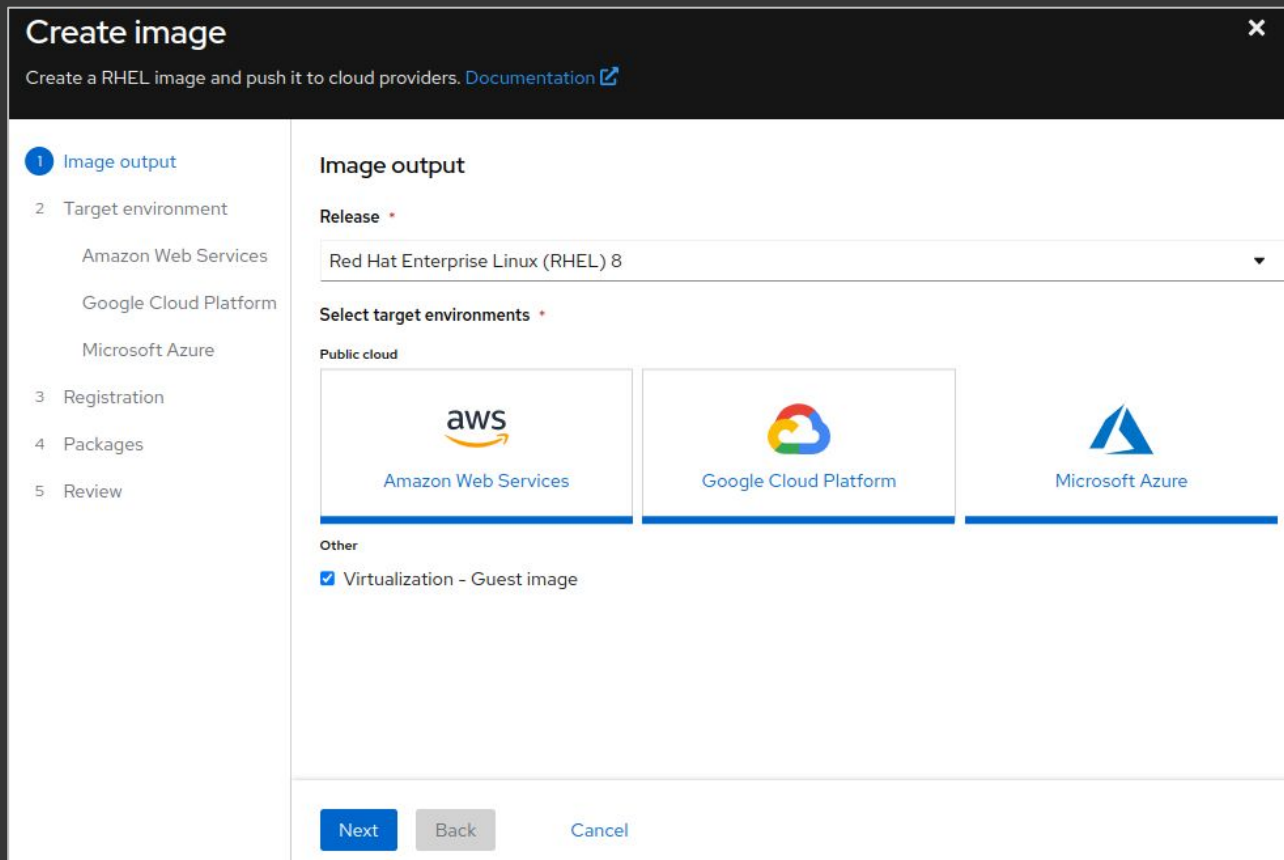
- VMware vSphere platform (.vmdk)
- Virtual guest (.qcow2)
 - Red Hat OpenStack, RHEL
- Physical system installer (.ISO)

Configuration Options

- Package selection
- Filesystems
- Extend configurations with cloud-init

Image Builder hosted service

What's coming?



Create image ✕

Create a RHEL image and push it to cloud providers. [Documentation](#)

1 Image output

2 Target environment

- Amazon Web Services
- Google Cloud Platform
- Microsoft Azure

3 Registration

4 Packages

5 Review

Image output

Release *

Red Hat Enterprise Linux (RHEL) 8

Select target environments *

Public cloud

- Amazon Web Services
- Google Cloud Platform
- Microsoft Azure

Other

- Virtualization - Guest image

Next Back Cancel

NEAR

Versions of RHEL

- RHEL 9.0 General Availability
- RHEL 8.x Active releases
 - 8.6*
 - 8.4 Extended Update Support
 - 7.9

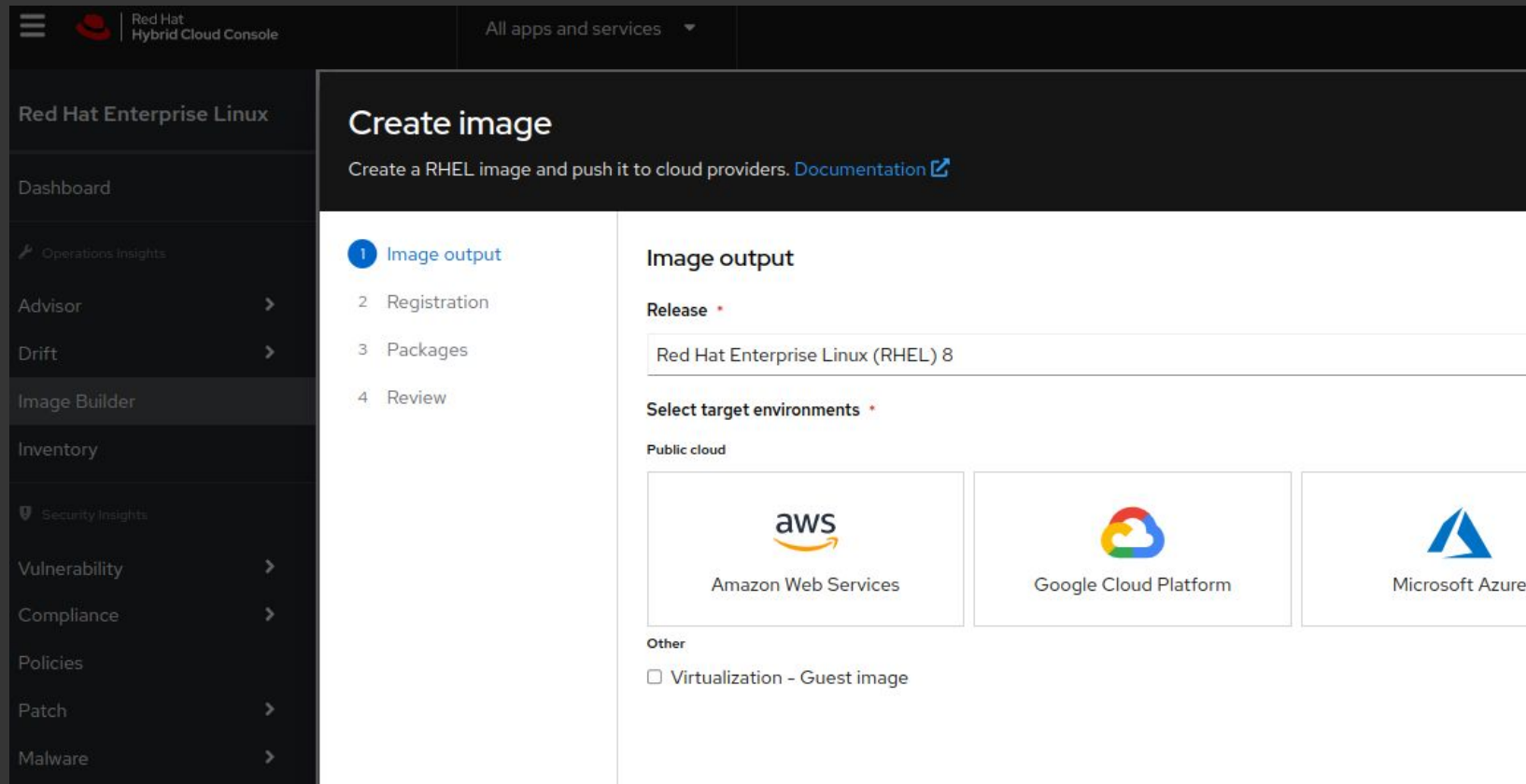
Configuration Options

- Image naming and management
- Filesystem and Storage enhancements
- Application Streams as modules
- Third party Software and Repositories
- Other Red Hat products (High Availability, Realtime, more)

How does it work?

Give Image Builder Beta a try:

<https://console.redhat.com/beta/insights/image-builder>



Visit: <https://lab.redhat.com/tracks/imagebuilder>

Wrap Up

What we discussed today:

- ▶ Difficulties with deployments
- ▶ Image Builder Hosted Service
- ▶ Image Builder roadmap



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