

Red Hat Enterprise Linux

What's new with UBI

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What we'll discuss today

What is Red Hat Universal Base Image?

Demo new features

What problems does it solve?

Questions



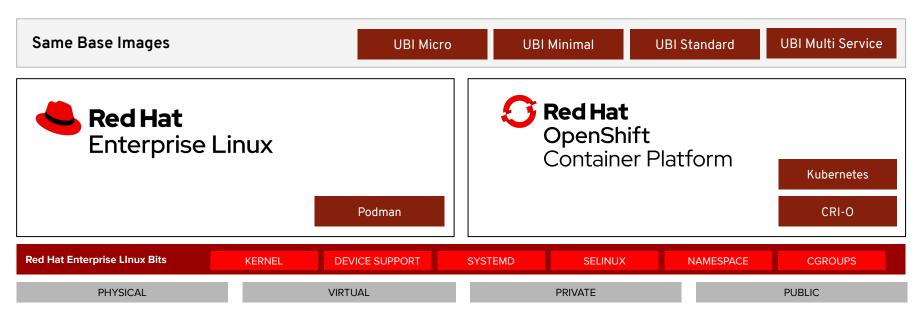
Red Hat Universal Base Image

The purpose is to be To
be the highest quality
and most flexible base
container image available



Red Hat Enterprise Linux & OpenShift Container Hosts

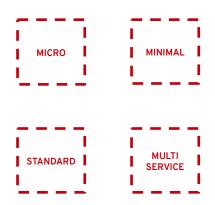
Same foundational technology, two products



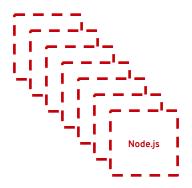


What is Red Hat Universal Base Image?

Four base image, language runtimes, and software packages







Pre-Built Language Images



Package Subset



What is Red Hat Universal Base Image?

Four images to choose from



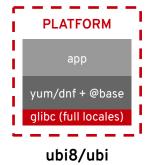
Designed for applications that contain all dependencies (Golang, dotnet, etc)

- Tiny (<15MB)
- No package manager
- Built using Buildah



Designed for applications that contain all dependencies (Golang, dotnet, etc)

- Minimized content set
- No suid binaries
- Minimal package manager (install, update, remove)



For any application that runs on RHFI

- Unified, openssl crypto stack
- Full YUM stack
- Includes useful basic OS tools (tar, gzip, vi, etc)



ubi8/ubi-init

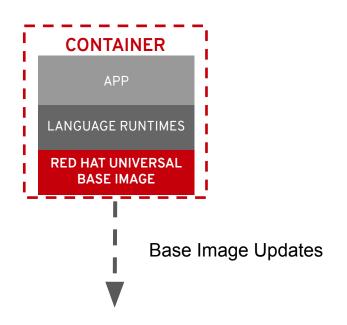
Eases running multiple services in a single container

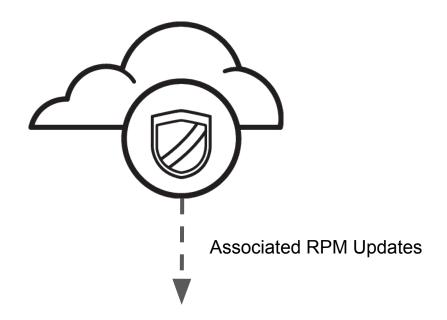
- Configured to run systemd on start
- Simply enable the services at build time



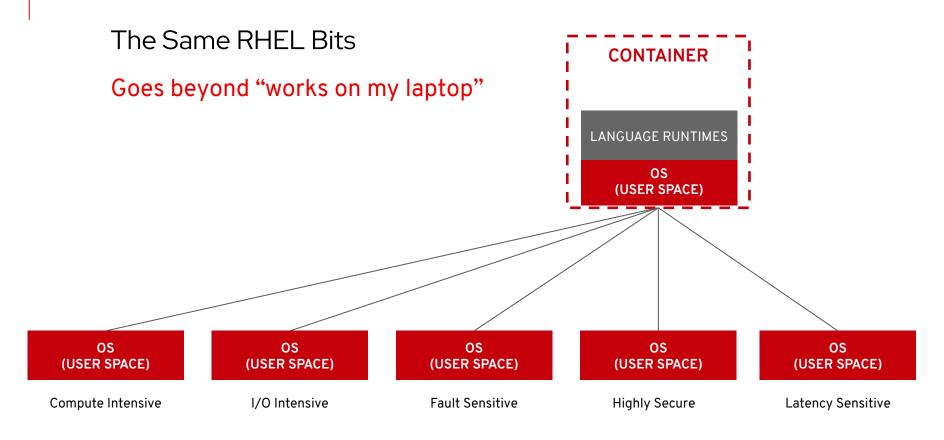
Two Ways to Get Updates

Red Hat provides updated base images & RPMs











Demo



What Challenges Does it Solve?



Too Many Options

Figuring out which container base image to use can be difficult

Traditional Options

- Red Hat Enterprise Linux
- Fedora
- CentOS
- Debian
- Ubuntu
- Windows

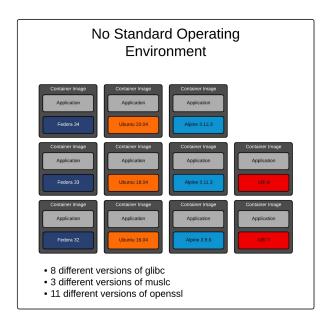
Minimal Options

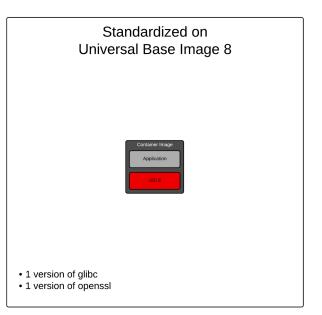
- Distroless
- Scratch
- UBI Minimal
- UBI Micro
- Alpine



Developers Will Make a Choice

Which creates image sprawl

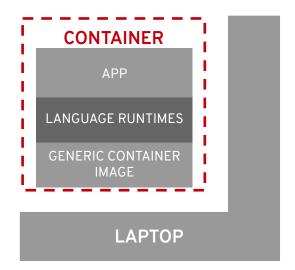




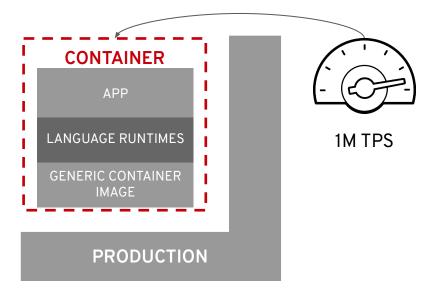


It Works on My Laptop, But...

What about performance?



Works on my laptop

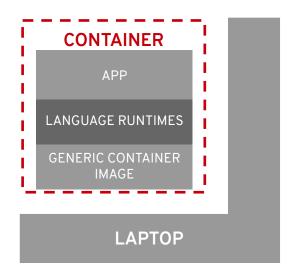


But, what about at 1M transactions per second

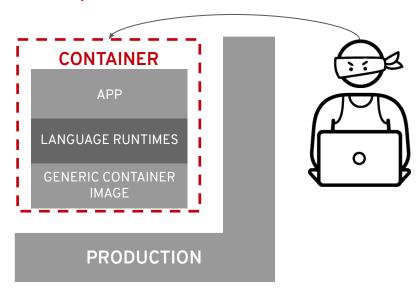


It Works on My Laptop, But...

What about security?



Works on my laptop

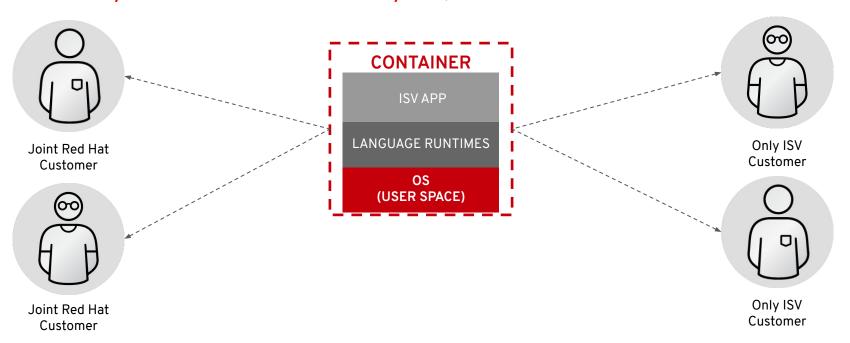


What about hackers?



ISVs Need to Distribute Anywhere

Meet your customers where they are, Joint Red Hat customers or not





How to Select The Right Image

There is standard criteria which can help

Architecture

- C Library
- Core Utilities
- Size
- Life Cycle
- Compatibility
- Troubleshooting
- Technical Support
- ISV Support
- Distributability

Security

- Updates
- Tracking
- Security Response Team

Performance

- Automated
- Performance Engineering



Questions



Thank you

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services make

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