Red Hat
Enterprise Linux

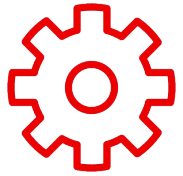
# Platforms and Consistency

## Or: “Why does the RHEL guy care so much about OpenShift?”

Gunnar Hellekson

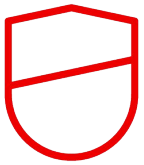
VP, RHEL

# Mission Statement



We are the source for safe and reliable Linux innovation that make your workloads successful.

We are everywhere you want us to be.



We serve the Red Hat portfolio and the larger Red Hat ecosystem.



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# RHEL 101

"I want an secure, reliable application host."

**RUNTIME STUFF**
(OS as Supply Chain)

Node.js | PHP | Nginx | Redis | MongoDB
Ruby | Python | PostgreSQL | .NET | ...

**USEFUL STUFF**
(Node Management)

sssd | rsyslog | openscap | Guest agents | ...

**COMPATIBILITY STUFF**
(aka ABI & ISV Ecosystem Stuff)

glibc | libgcc | pam | libxml2 | ...

**ACTUAL OS STUFF**
(aka Hardware Ecosystem Stuff)

KERNEL | DRIVERS | SYSTEMD | SELINUX | NAMESPACE | CGROUPS

PHYSICAL | VIRTUAL | PRIVATE | PUBLIC



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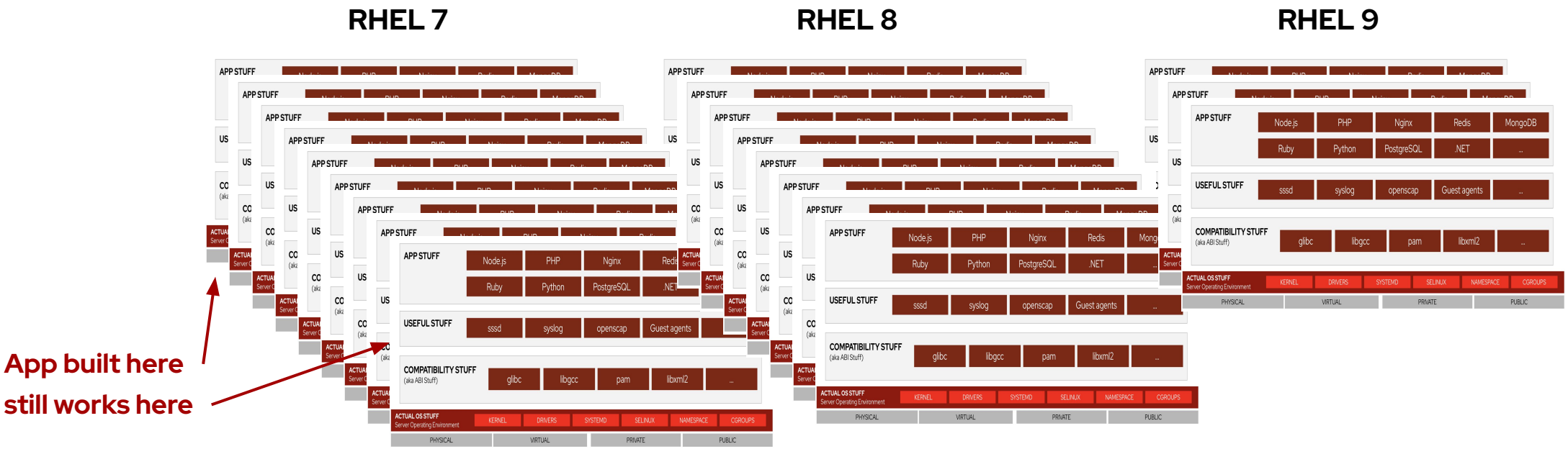
# RHEL 201

"Now update it every six months forever"




| PHYSICAL | VIRTUAL | PRIVATE | PUBLIC |
|---|---|---|---|



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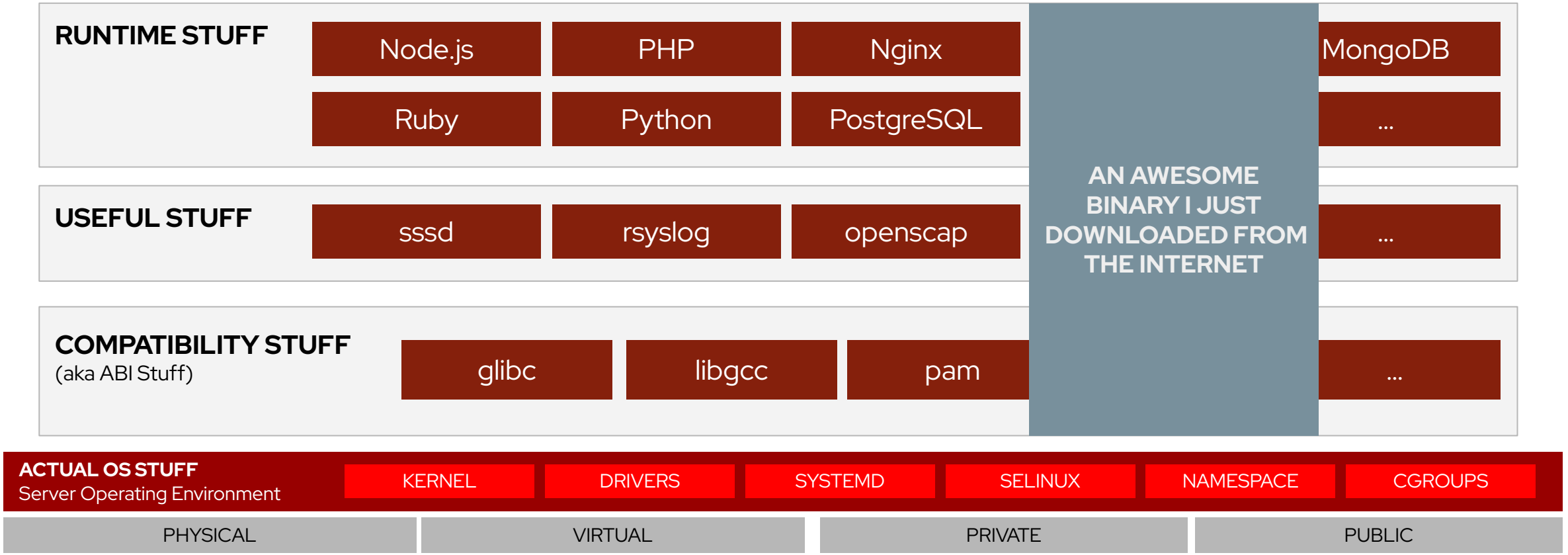
# Containers 101

"I'm pretty sure it'll work."



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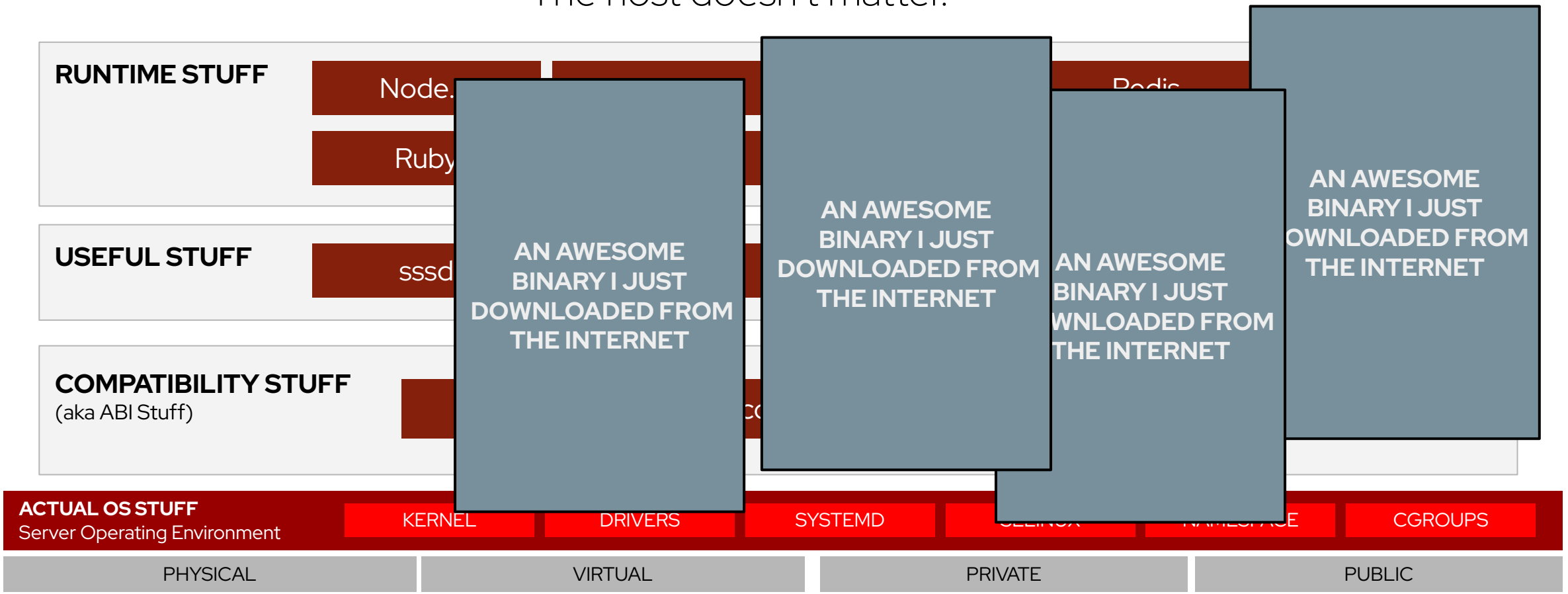
# Containers 101

"The host doesn't matter."



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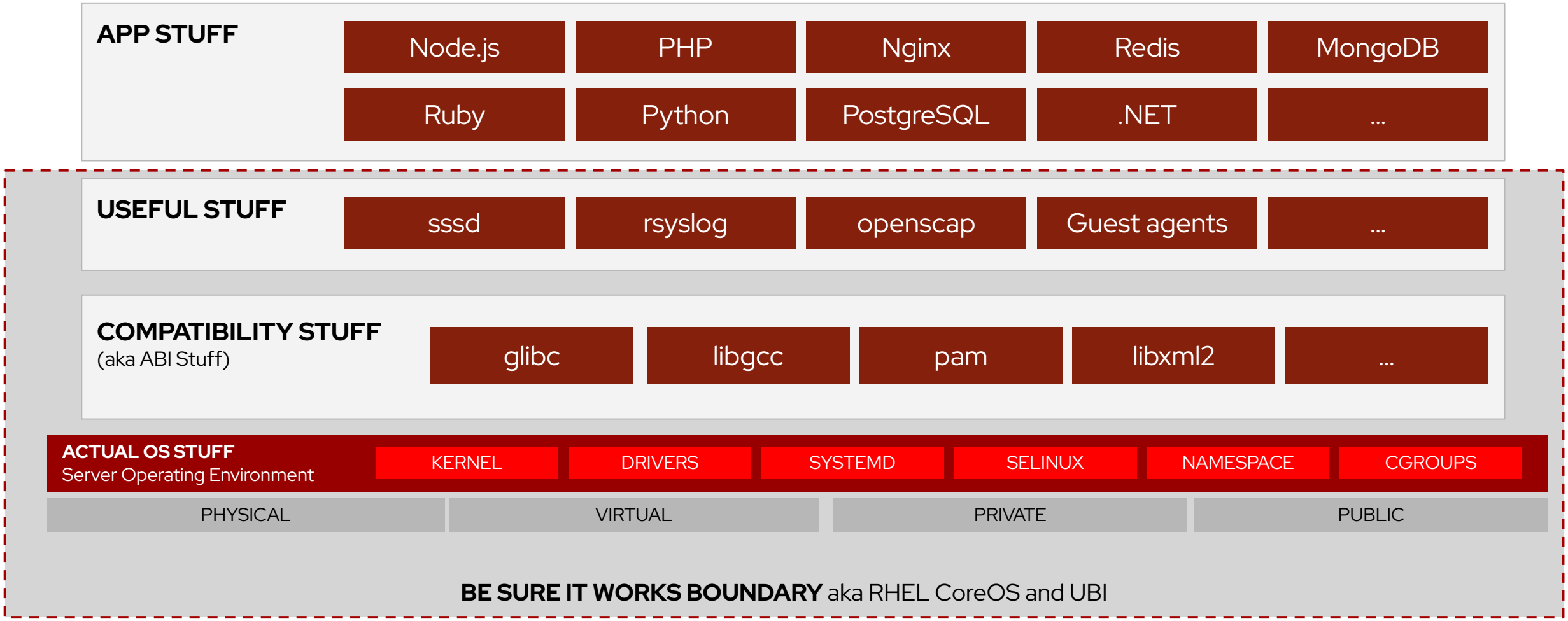
# RHEL, CoreOS, UBI

"Technical consistency matters."



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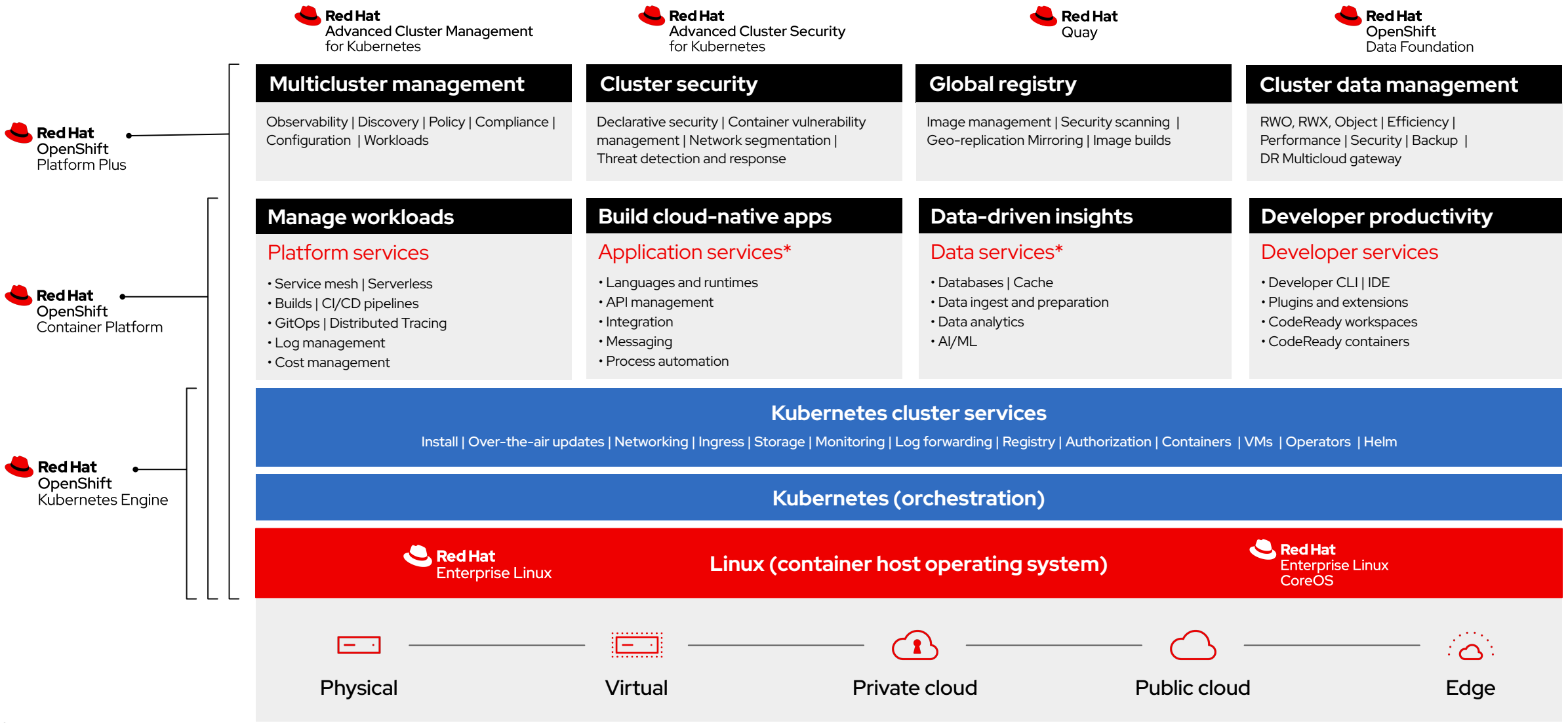
# OpenShift as a Hybrid Cloud Application Platform

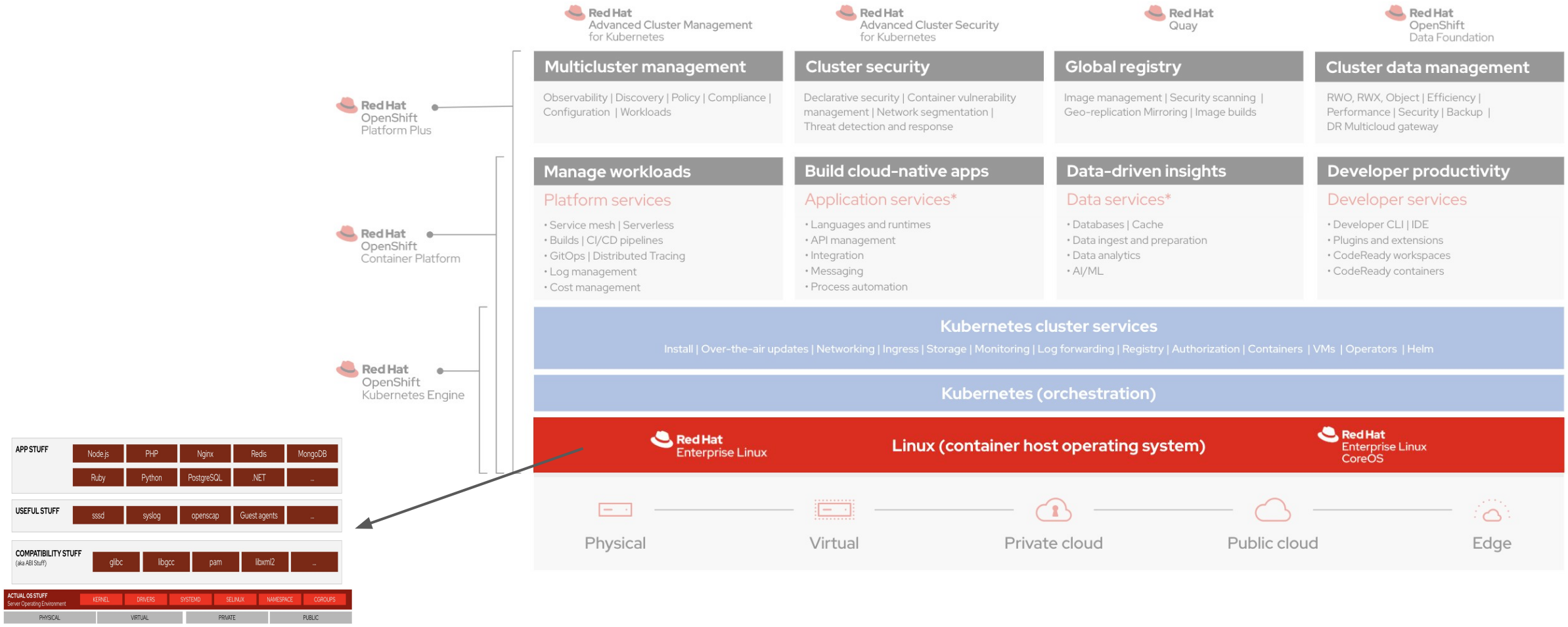





* Red Hat OpenShift® includes supported runtimes for popular languages/frameworks/databases. Additional capabilities listed are from the Red Hat Application Services and Red Hat Data Services portfolios.

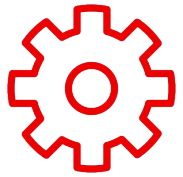
** Disaster recovery, volume and multicloud encryption, key management service, and support for multiple clusters and off-cluster workloads requires OpenShift Data Foundation Advanced

# Technical Consistency in an OpenShift Context



# Platforms and Consistency

## Operational consistency requires Technical consistency

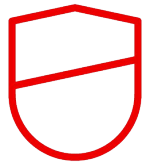


### DEVELOPMENT

Faster onboarding

Less guesswork

Less bikeshedding



### SECURITY

Fewer variables

Risk offloaded to the platform

Better visibility

Faster remediation cycles

### OPERATIONS

Commoditization of infrastructure

Better scale for talent

Easier integrations



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