

# Red Hat Enterprise Linux Migrations

Presenter's Name

Title

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### Top 3 reasons to move to Red Hat Enterprise Linux 8



#### Security and compliance

Maintain compliance and access the latest patches and fixes



#### Access to innovation

Take advantage of all the latest
Red Hat Enterprise Linux features
and functionality

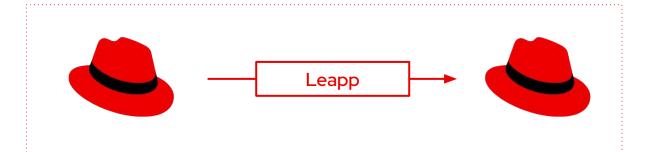


#### Lifecycle events

Avoid end of maintenance or extended support requirements

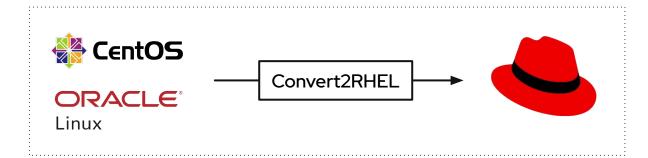


# Types of migration



Migrate across Red Hat Enterprise Linux

Upgrade from one major version to another.



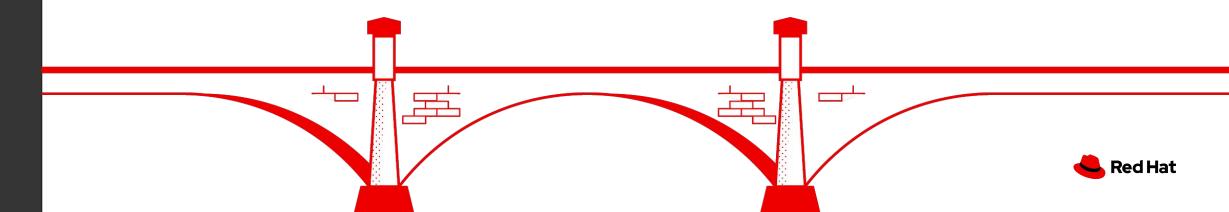
Migrate to Red Hat Enterprise Linux

Convert from non-Red Hat Enterprise Linux systems.



# Migrate across Red Hat Enterprise Linux

Upgrade from one major version of Red Hat Enterprise Linux to the next



### Key customer milestones



# Red Hat Enterprise Linux 6 end of maintenance (EOM)

Red Hat Enterprise Linux 6 end of maintenance in November 2020



#### Red Hat Enterprise Linux 7 lifecycle

Red Hat Enterprise Linux 7 is entering maintenance support phase.



# Extended lifecycle support purchase criteria

Extended lifecycle support is a chargeable add on for Red Hat Enterprise Linux 6



#### Adoption of Red Hat Enterprise Linux 8

Most customers historically adopt new major versions after a .2 release

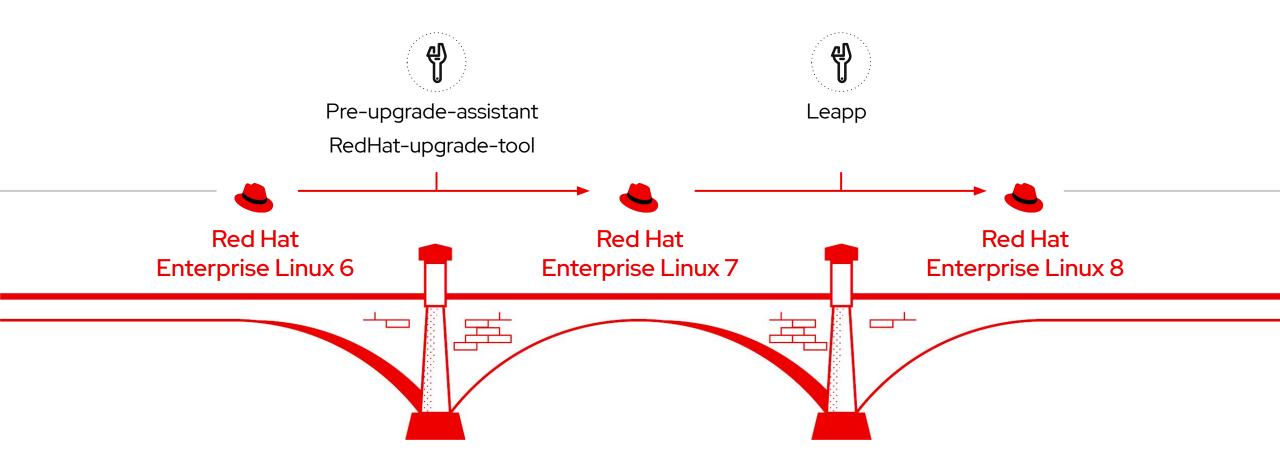


# In-place upgrades vs. re-deployment

In-place upgrade	Re-deployment
Preserves configuration	Wipes out existing configuration
Bypass subscription management	Machines have to be re-subscribed
Saves time and cost	Additional time and cost
Lower bar of seniority required	Requires expertise to ensure success



### Utilize migration tools to streamline upgrades





### Introducing Leapp

Upgrade Red Hat Enterprise Linux faster and easier than ever before

Upgrade from	Becomes
Red Hat Enterprise Linux 7.9	Red Hat Enterprise Linux 8.2

- Single automated path to migrate from
   Red Hat Enterprise Linux 7.latest to 8.latest EUS
- ► Two phase process:
  - · Upgradability analysis
  - Upgrade
- Original subscription stays attached to the system



#### Features and benefits

Why Leapp for your upgrade from Red Hat Enterprise Linux 7 to 8?



No redeployment of the OS or apps



Automated path for ISV apps



Access to the latest Red Hat Enterprise Linux capabilities



Compatibility and remediation guidance



Simplified subscription management



Built-in fail safe and disaster recovery



All configuration is preserved



Supported by Red Hat

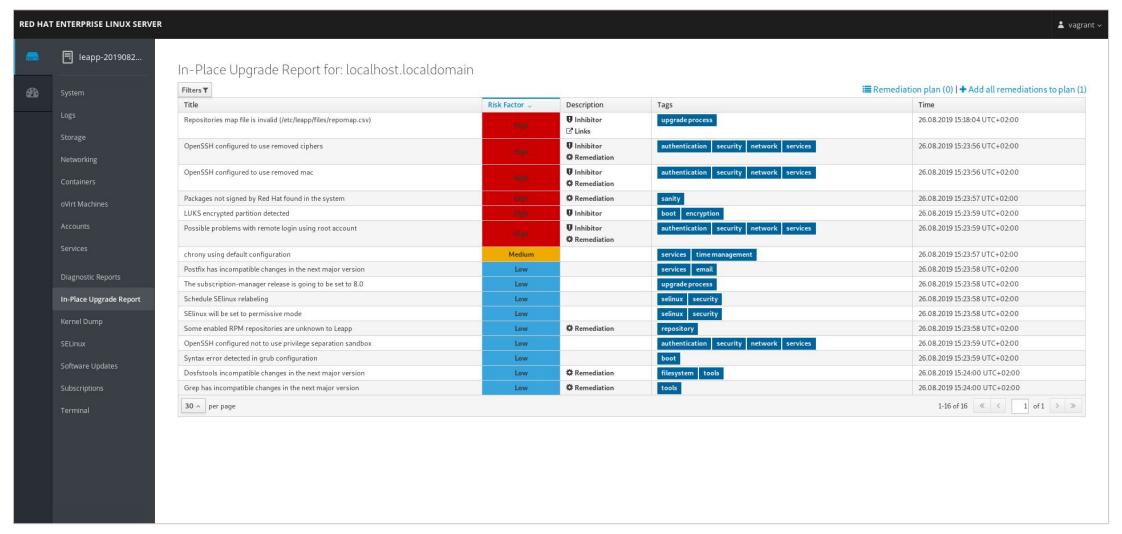


Shorter maintenance window



Migrate across Red Hat Enterprise Linux

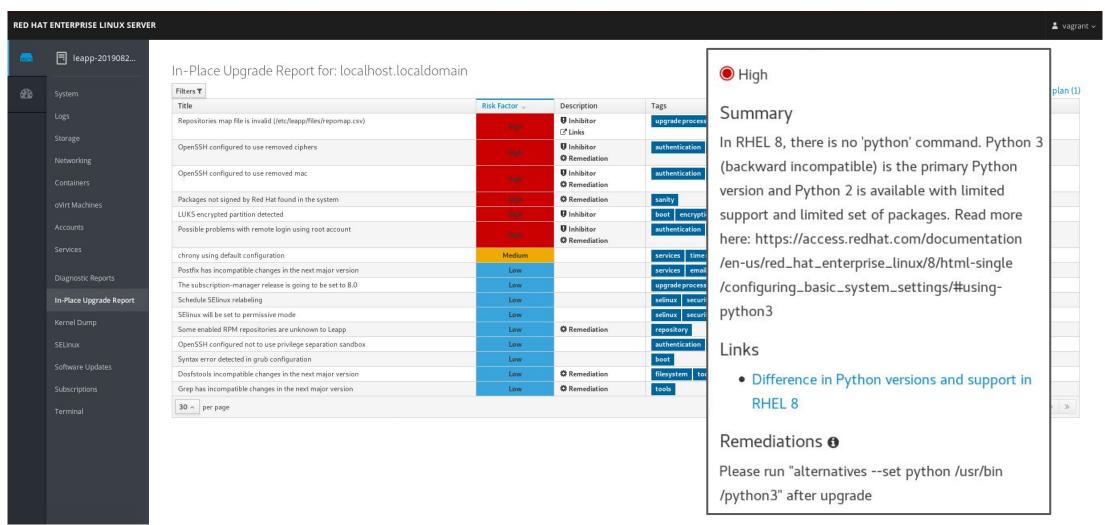
#### 01 Leapp Compatibility Analysis





Migrate across Red Hat Enterprise Linux

#### **02** Leapp Remediation Suggestions



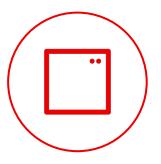


# Additional considerations



### Disconnected systems

Specify location of packages manually and optionally bypass subscription manager



### **Custom applications**

Guidance to write custom actors and policies



# Scaling migrations with Leapp



- (i) Insights rule
- (b) Proactive suggestions

**Red Hat Enterprise Linux 8.2** 



- Satellite plug-in
- Pre-upgrade assessment report
- Remediations

Red Hat Enterprise Linux 8.2/8.3 Red Hat Satellite 6.8



# Preparation is key to upgrade success



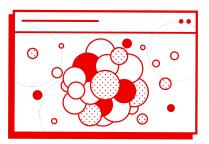
Although the upgrade process takes approximately 15 minutes, there is some preparation required



Resources are available to help you prepare for the upgrade—expect this to take time



Migrate across Red Hat Enterprise Linux



# Large scale upgrade and modernization

Large global financial services firm upgrades from Red Hat Enterprise Linux 7 to Red Hat Enterprise Linux 8 easier than ever before.

#### Size

► Approximately 30,000 Red Hat Enterprise Linux 7 systems

#### Key driver

Wanted the latest and greatest capabilities

#### Infrastructure details

- Over 300 applications (custom and 3rd party)
- Mix of bare metal and virtual

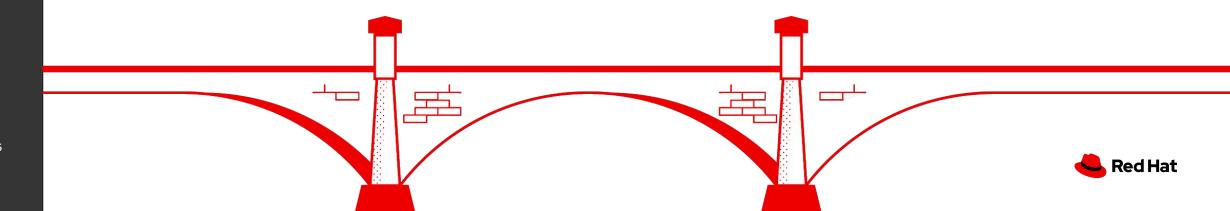
#### The process

- ► In-place upgrade from Red Hat Enterprise Linux 7.6 to 8.2 with Leapp
- → 2 month PnT-led engagement
- Initial PoA took 1 week
- Write customer actors for custom applications leveraging Red Hat samples
- Engineering code review
- Migration in process



# Migrate to Red Hat Enterprise Linux

Convert from non-Red Hat Enterprise Linux systems to Red Hat Enterprise Linux



# Why customers migrate systems to Red Hat Enterprise Linux



#### Support

Organization expansion requires a supported enterprise-level platform



#### Cost

Cost of running another vendor's Linux can fluctuate or increase over time



#### Integration

Cloud service provider's own Linux does not have ISV app support



# Why move to Red Hat Enterprise Linux?

#### Value of the Red Hat Enterprise Linux subscription



Monitor and manage your deployment environment



Ability to in-place upgrade



Consistently built and tested in the same environment



Government and public security certifications



Certified by many hardware and software vendors



Certified to be used as a guest or host on cloud platforms



Includes advanced automation and management tools



Live kernel patches available



Fixed lifecycle and extended life cycle offerings



Enterprise-level platform support



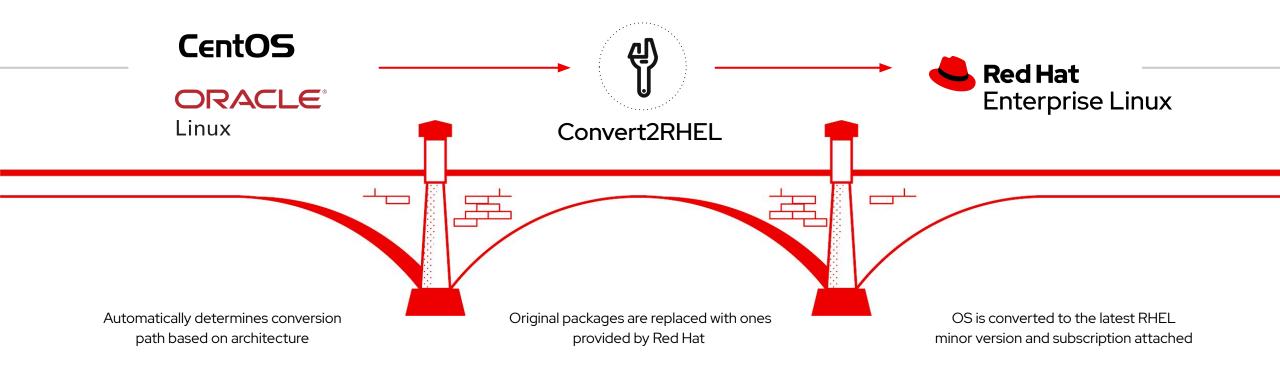








### Utilize our migration tool to streamline conversions





Migrate to Red Hat Enterprise Linux

# Introducing Convert2RHEL

#### Simplified migration to Red Hat Enterprise Linux

Convert from	Becomes
Oracle Linux 8   CentOS Linux 8	Red Hat Enterprise Linux 8
Oracle Linux 7   CentOS Linux 7	Red Hat Enterprise Linux 7

- Self-service migration tool helps avoid costly redeployment projects
- Maintain existing customizations, configurations, and preferences
- Once migrated to Red Hat Enterprise Linux, take advantage of everything a Red Hat Enterprise Linux subscription has to offer



#### Features and benefits

Why Convert2RHEL to standardize your Linux systems?



No redeployment of the operating system or apps



Shorter maintenance window



All configuration is preserved



Leverage Red Hat Enterprise Linux VoS after conversion



Built-in fail safe and disaster recovery



Upgrade path to get on the latest Red Hat Enterprise Linux



Migrate to Red Hat Enterprise Linux



# Customer success with Convert2RHEL

Large global media company converts from Oracle Linux to Red Hat Enterprise Linux to reduce cost.

#### Size

► Approximately 28,800 Oracle Linux systems

#### Key driver

- Wanted to standardize on Red Hat Enterprise Linux
- Reduce cost

#### Infrastructure details

- Mix of bare metal and virtual
- ► 13,000 Oracle Linux 7
- ► 10,000 Oracle Linux 6.5
- ► 5800 Oracle Linux 6.3

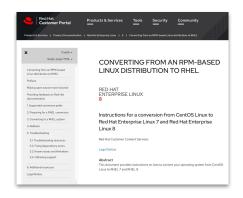
#### The process

► Delivered as a Red Hat Consulting engagement



Migrate to Red Hat Enterprise Linux

# Convert2RHEL customer migration options



Self-service



Recommended



# Red Hat Consulting

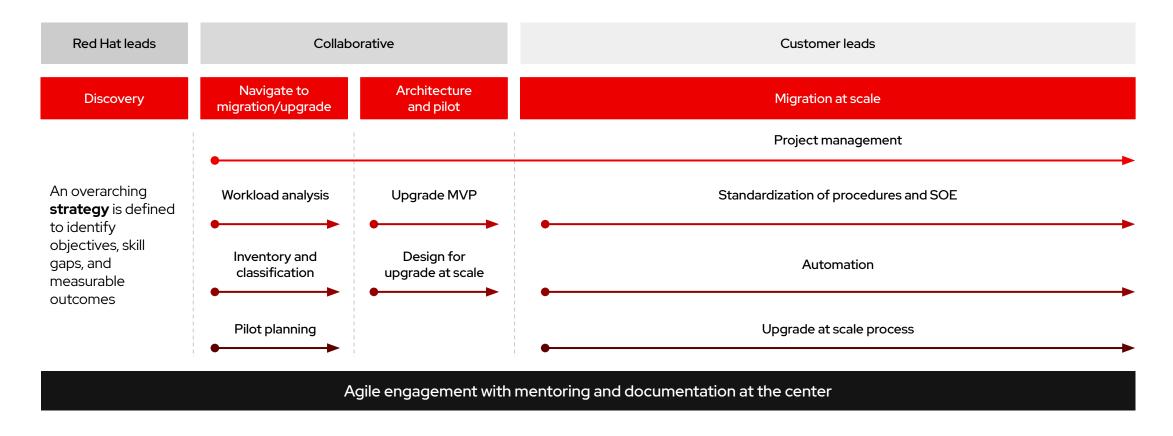
# Accelerate your migration with Red Hat Consulting

- Work to identify tooling and the key sets of apps and workloads
- Create automation to help establish workflows
- Reduce risk for your mission critical applications and workloads





## Red Hat Consulting migration engagement model





# Thank you

Red Hat is the world's leading provider of enterprise open source software solutions. Award-winning support, training, and consulting services make Red Hat a trusted adviser to the Fortune 500.

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