

**RHEV 3.1 Overview and Roadmap** 

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### **RED HAT ENTERPRISE VIRTUALIZATION** MOVING BEYOND 3.0

- oVirt Project officially launched November 2011
- All new development happening 'upstream' at ovirt.org
- Broken out into 13 separate projects
  - Engine core
  - Web Admin
  - User Portal
  - API
  - CLI
  - Node
  - VDSM
  - etc ...





	Platform Infrastructure	
JBoss EAP 6	<ul> <li>Reduced in-memory footprint</li> <li>Reduced startup time</li> <li>Improved performance and scalability</li> </ul>	23s 15s
OpenJDK	<ul> <li>Run on 100% open source infrastructure</li> <li>No requirement for proprietary Oracle JRE</li> </ul>	8s 4.318 0.650 2.109 Minimal Default
RHEL 6.3	<ul> <li>Improved performance &amp; Scalability</li> <li>New KVM features <ul> <li>e.g., New CPUs, live snapshots, storage migration</li> <li>Scaling to 2TB / 160 vCPU per VM*</li> </ul> </li> </ul>	
Jasper 4	- Move to latest Jaspersoft Reporting engine	
RHDS	- Red Hat Directory Server Support	
Quotas	- Support quotas for storage, memory and CPU	



	Integration & API
Linux CLI	<ul> <li>New CLI based on upstream command line tool</li> <li>Allows all RHEV operations to be run from command line</li> </ul>
JSON	- Support for JavaScript Object Notation in addition to XML
Python SDK	- Python SDK for developers
API Session	- Session support for API connections



	User Interface
Web Admin	- Full support for Web Admin - Remove Windows Admin Portal
Reports Integration	<ul> <li>Integrate Reports / Dashboard into web admin portal</li> <li>Single Signon between Admin portal and Jasper Reports</li> </ul>
Task Manager	- Interface to view and manage on-going tasks
Internationalization	- Internationalization / Localization for UI



	Storage
Hotplug Disk	- Hot plug/unplug virtual machine disk image
Direct LUN	- UI support for configuring direct LUN access for virtual machine
Shared Disk	- Allow VM disk to be shared e.g., Shared disk for database
Multiple Storage Domains	- Allow VM to use disks from multiple storage domains
Live Snapshots	- Live snapshots of Virtual Machine – including guest agent
'Floating' Disks	- Create and manage disks that are not associated to a VM
'Pluggable' Filesystems	<ul> <li>Infrastructure to support other shared file systems e.g., Gluster, GPFS, etc</li> </ul>
Storage Migration	- Storage Live Migration



	Networking
Network UI	<ul> <li>New Network management UI</li> <li>Support for more advanced configuration options         <ul> <li>e.g., Set MTU for network interfaces (jumbo frames)</li> <li>e.g., Define SPAN/Monitor port for network security monitoring</li> </ul> </li> </ul>
Hot plug/unplug	- Hot plug/unplug virtual machine's network interface



	Virtual Desktop Infrastructure	
Autostart VM Pools	- Extend VM pools to autostart virtual machines	
	SPICE	
Native USB	<ul> <li>Native USB 2.0 support in Spice (remove 3<sup>rd</sup> party USB solution)</li> <li>Support for USB remoting for Linux guests</li> </ul>	
WAN Optimizations	- Optimizations for low bandwidth / high latency networks	



#### **RED HAT ENTERPRISE VIRTUALIZATION** BEYOND 3.1 – KEY FEATURES

Still in planning – based on upstream development

	RHEV 3.2 – Target H1-2013
RHEL 6.4	- Based on RHEL 6.4 Hypervisor
SLA Support	- SLA / QoS for CPU, memory, network and storage
	RHEV 4.0 – Target H2 - 2013
RHEL 7.0	- Based on RHEL7 Hypervisor
New Storage Infrastructure	- Remove need for SPM - Mixed storage types in same pool – iSCSI, FC, NFS
Networking	- Support for Open vSwitch





# THANK YOU

