

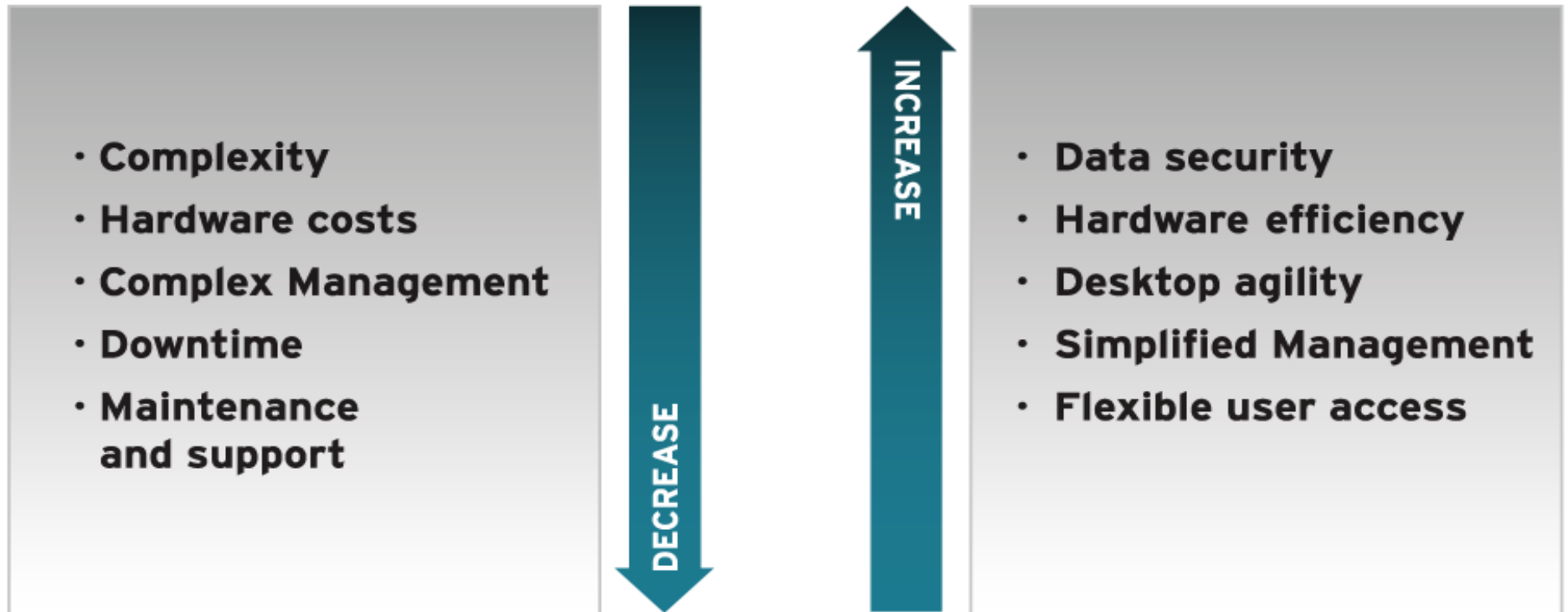


RED HAT ENTERPRISE VIRTUALIZATION FOR DESKTOPS 3.0

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WHY VIRTUALIZE THE DESKTOP?



WHO BENEFITS FROM VIRTUAL DESKTOPS?

- Call centers/Task worker
 - Simplified application set
- Knowledge workers
 - Simplified desktop and limited application set
- Healthcare
 - Nursing stations, doctors, patient rooms, etc
- Education
 - Heterogeneous computer lab environments
 - Teachers, facilities, etc
- FSA / Traders
 - Multi-monitors, fast screen refresh, unique application set
- Developers / Engineers
 - Multiple environments, unique system resources requirements, unique application set



RED HAT ENTERPRISE VIRTUALIZATION FOR DESKTOPS

COMPLETE VIRTUAL DESKTOP INFRASTRUCTURE SOLUTION



RED HAT ENTERPRISE VIRTUALIZATION



- Desktops & Server virtualization
- Windows & Linux desktops
- Full featured VDI: Integrated connection broker, pooling, templates, thin provisioning, memory overcommit, system scheduler, & more



SPICE: BUILT FOR VIRTUAL DESKTOPS

- Adaptive Protocol
 - Dynamically chooses optimal point to process graphics
 - Renders locally on client or falls back to server or VM
- Improved network support for WAN
 - Enhanced bandwidth and latency tolerance
 - Optional SSL encryption
- Highest server density levels



SPICE: MULTIMEDIA

- Delivers multimedia with local appearance
 - Sends native drawing/graphics commands to client for any combination of Win/Linux
- Unlike competing protocols, does not use MMR (MultiMedia Redirection)
 - No installation of codecs on client
 - No restrictions on codec format or playback (browser/stand-alone)
 - Supports anything the VM supports
 - WMV, Quicktime, Flash, H.264, MPEG-2, MPEG-4, etc.

hulu

F FANDANGO

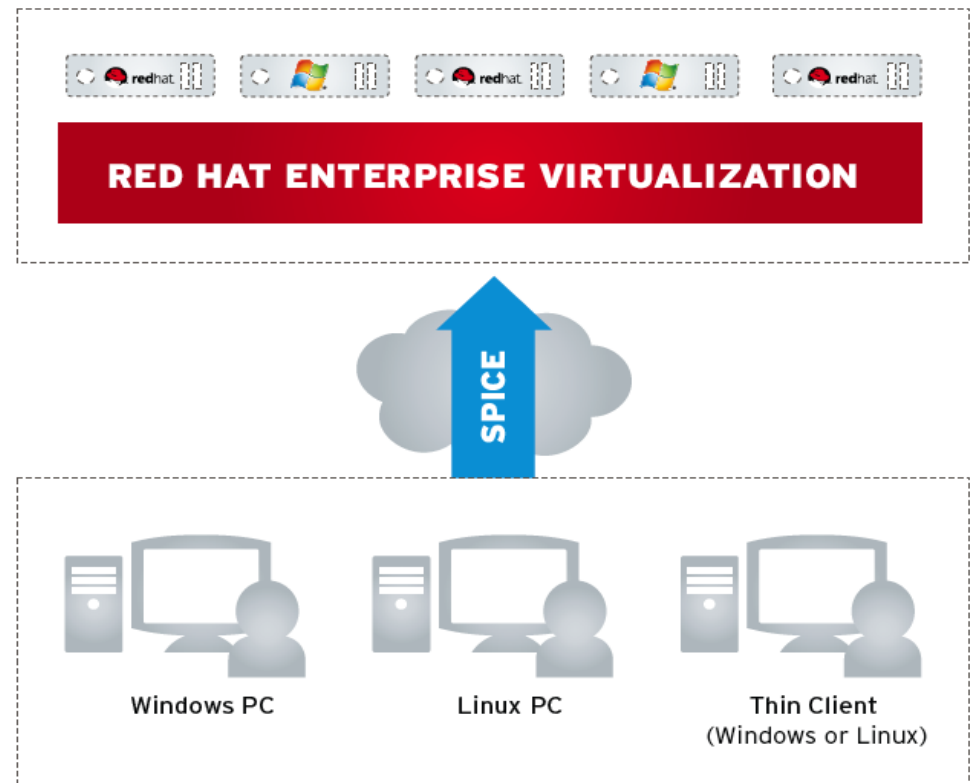
You Tube

NETFLIX



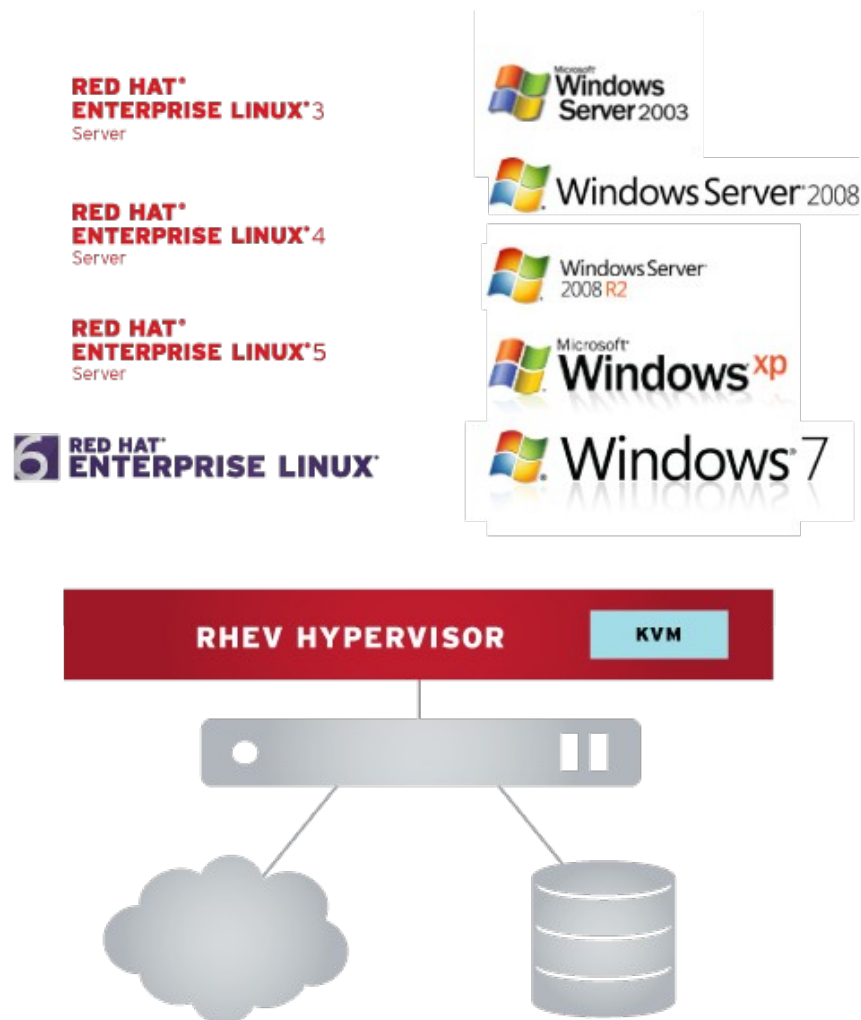
SPICE: EXCEPTIONAL USER EXPERIENCE

- User experience comparable to a local desktop PC
 - Bi-directional audio & video
 - VoIP & video conferencing
 - HD quality video
 - Hi resolution 2560x1600 (each)
 - Up to 4 monitors
 - USB redirection for nearly any device
 - Smart Card/CAC authentication
 - Copy & paste



RHEV HYPERVISOR / KVM OVERVIEW

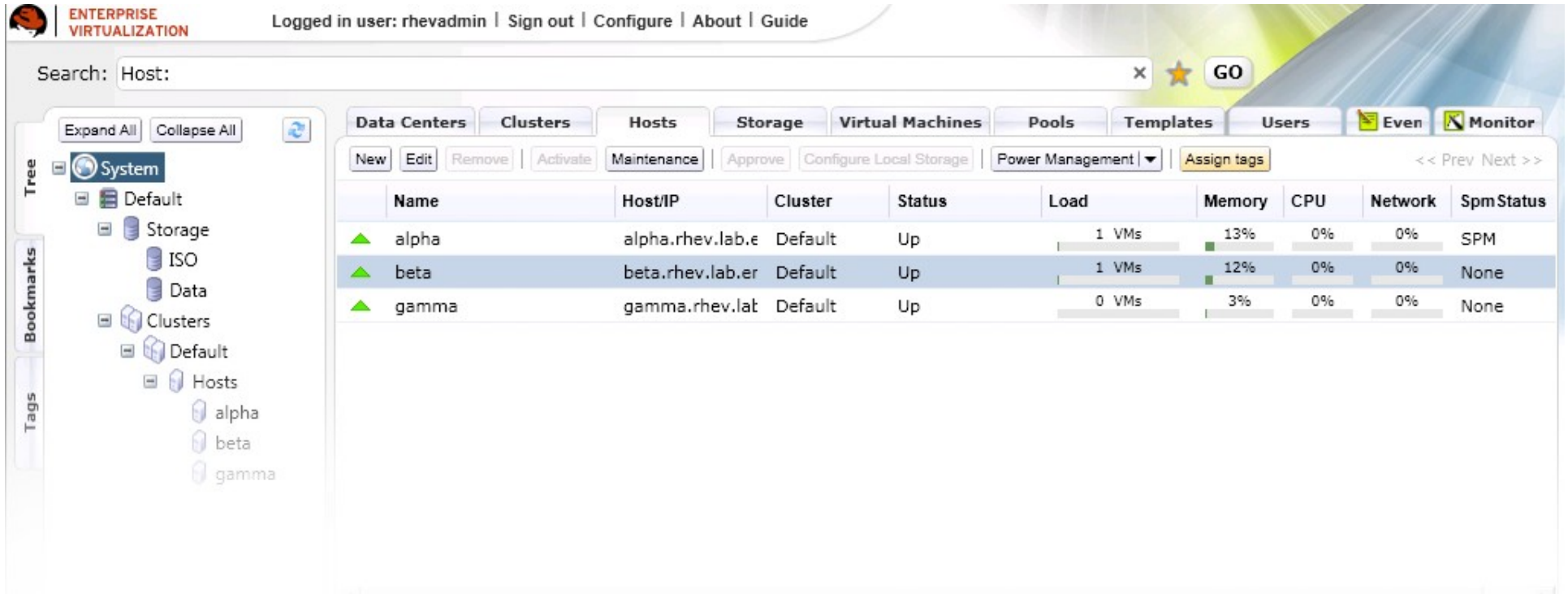
SMALL FORM FACTOR, SCALABLE,
HIGH PERFORMANCE



- Host: 160 logical CPU (4,096 theoretical max), 2 TB RAM (64TB theoretical max)
- Guest: 64 vCPU, 512 GB RAM
- Supports latest silicon virtualization technology
- Based on the latest RHEL 6 kernel
- Microsoft SVVP certified



RHEV MANAGER OVERVIEW



The screenshot displays the RHEV Manager web interface. At the top, it shows the user is logged in as 'rhevadmin' with options to sign out, configure, or view the guide. A search bar is present with the text 'Host:'. The main navigation area includes tabs for Data Centers, Clusters, Hosts (selected), Storage, Virtual Machines, Pools, Templates, Users, Even, and Monitor. Below the tabs, there are action buttons like 'New', 'Edit', 'Remove', 'Activate', 'Maintenance', 'Approve', 'Configure Local Storage', 'Power Management', and 'Assign tags'. A table lists the hosts:

Name	Host/IP	Cluster	Status	Load	Memory	CPU	Network	Spm Status
alpha	alpha.rhev.lab.e	Default	Up	1 VMs	13%	0%	0%	SPM
beta	beta.rhev.lab.er	Default	Up	1 VMs	12%	0%	0%	None
gamma	gamma.rhev.lab	Default	Up	0 VMs	3%	0%	0%	None

- Centralized virtual infrastructure management (hosts, virtual machines, networking, storage, templates, etc.)
- Designed for large scale: 500+ hosts and 10,000+ virtual machines
- Administrative interfaces: GUI, RESTful API, Linux CLI



RHEV MANAGER OVERVIEW

The screenshot shows the RHEV Manager web interface. The top navigation bar includes "Data Centers", "Clusters", "Hosts", "Storage", "Virtual Machines", "Pools", "Templates", "Users", "Even", and "Monitor". The main content area displays a table of hosts:

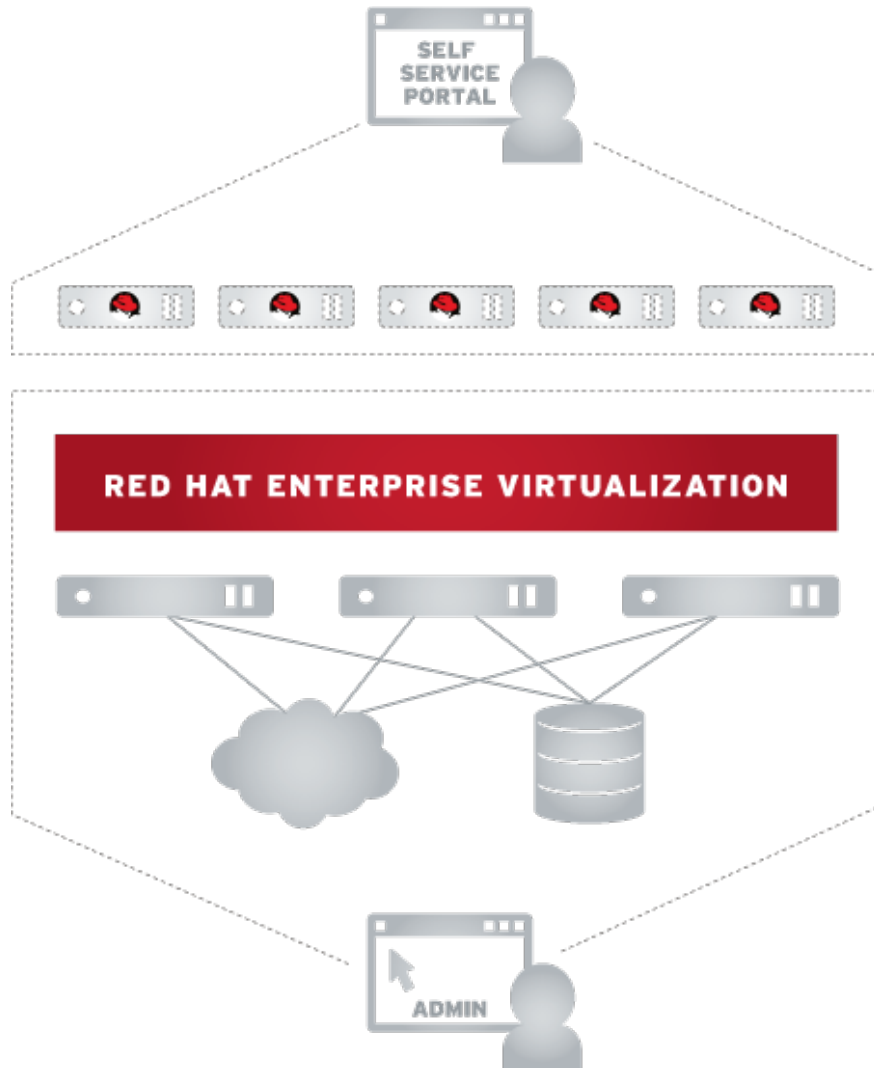
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gamma	gamma.rhev.lat	Default	Up	0 VMs	3%	0%	0%	None

Below the table, a diagram illustrates application deployment. Five application icons (labeled "APP") are shown in a row, each with a different icon (e.g., a red hat, a Windows logo). These applications are connected to a central red bar labeled "RED HAT ENTERPRISE VIRTUALIZATION". Below this bar, three server icons are shown, each connected to a cloud icon and a database icon, representing the underlying infrastructure.

- Live Migration
- Load Balancing
- Self Service Portal
- Integrated Connection Broker/policy management
- Pools, Templates, thin provisioning, snapshots
- Centralized storage and networking management
- *Eco-system marketplace*



POWER USER PORTAL



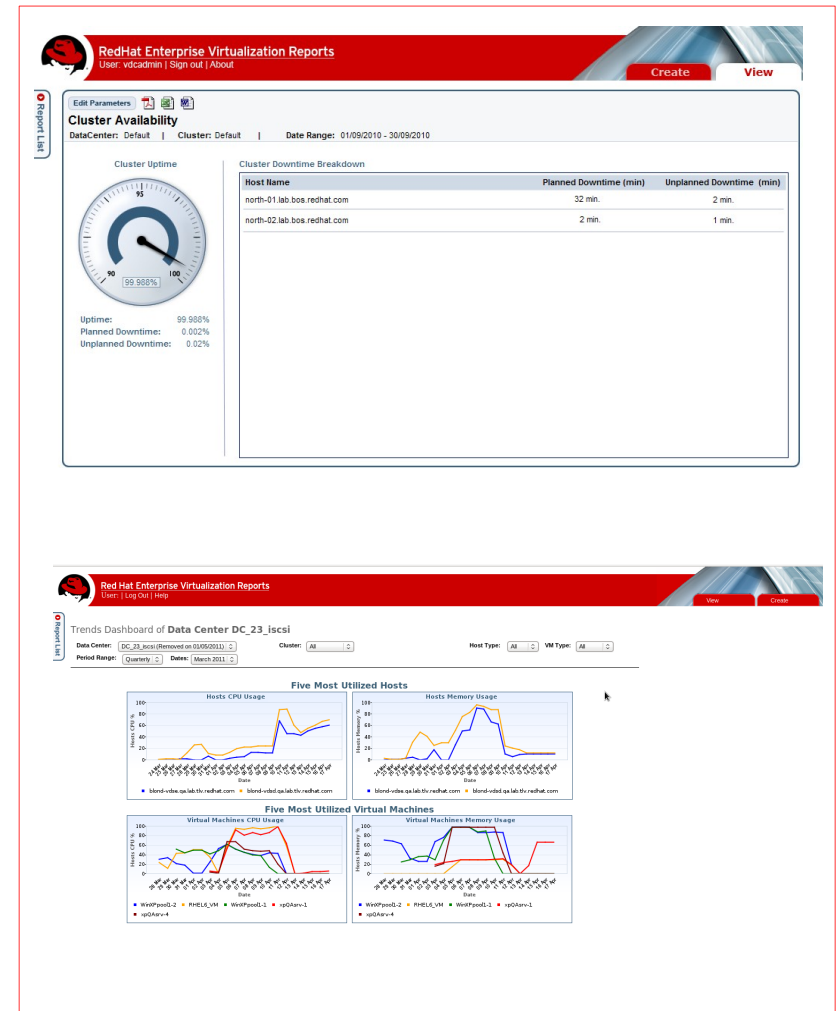
- Self-Service user portal
- Tied to Microsoft AD or Red Hat Identity Management (LDAP) users and groups
- Role and object based security delegation
- Full VM lifecycle management

- ✓ Create, edit and remove virtual machines
- ✓ Manage virtual disks and network interfaces
- ✓ Assign user permissions to virtual machines
- ✓ Create and use templates to rapidly deploy virtual machines
- ✓ Monitor resource usage and high-severity events
- ✓ Create and use snapshots to restore virtual machines to a previous state

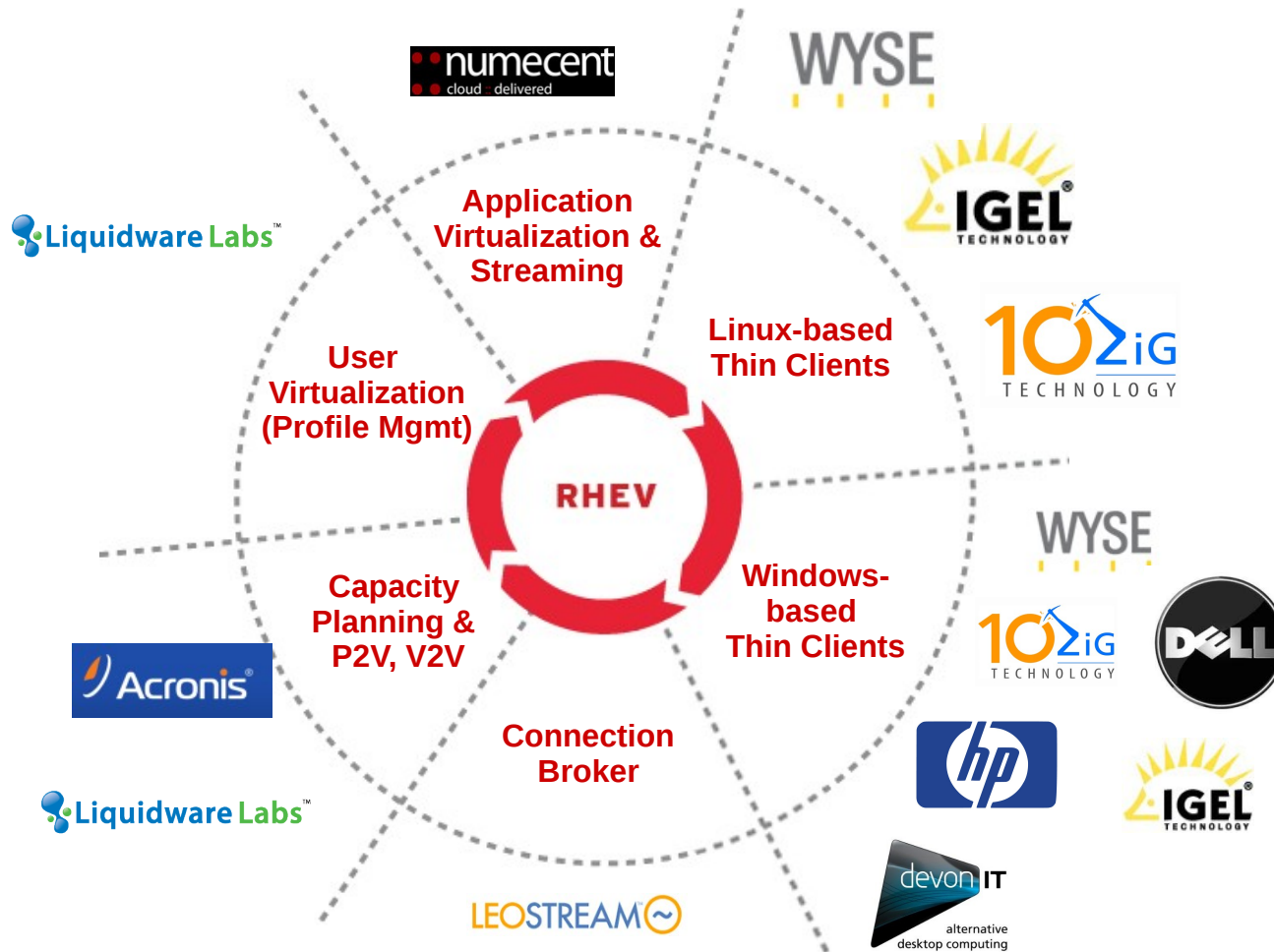


REPORTING

- Historical usage, trending, quality of service
- Integrated reporting engine based on Jasper reports
- Over 25 prebuilt reports and dashboards included
- Ability to create and customize reports and templates



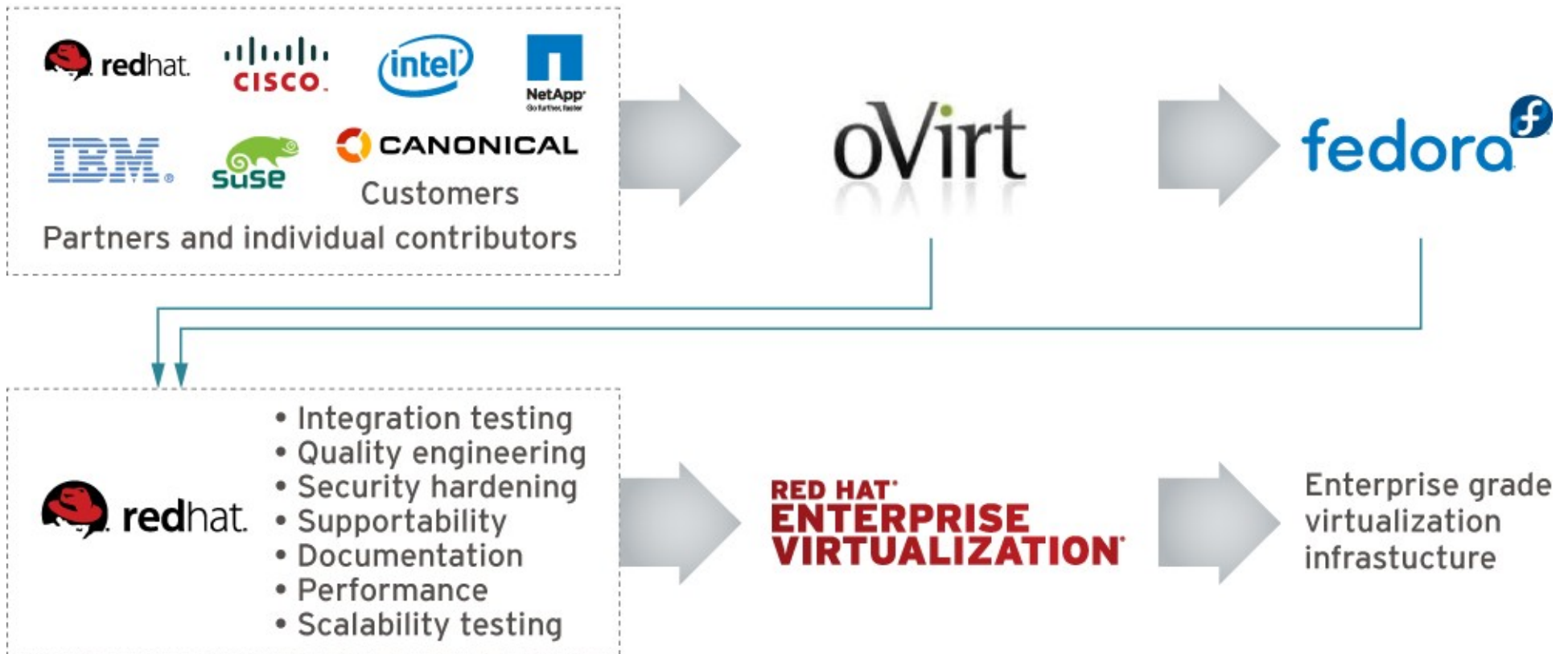
RHEV FOR DESKTOPS ECOSYSTEM PARTNERS



- Integrated through the RHEV API
- Certified by Red Hat to work with RHEV for Desktops & SPICE
- Free ISV software trials available via the RHEV Marketplace



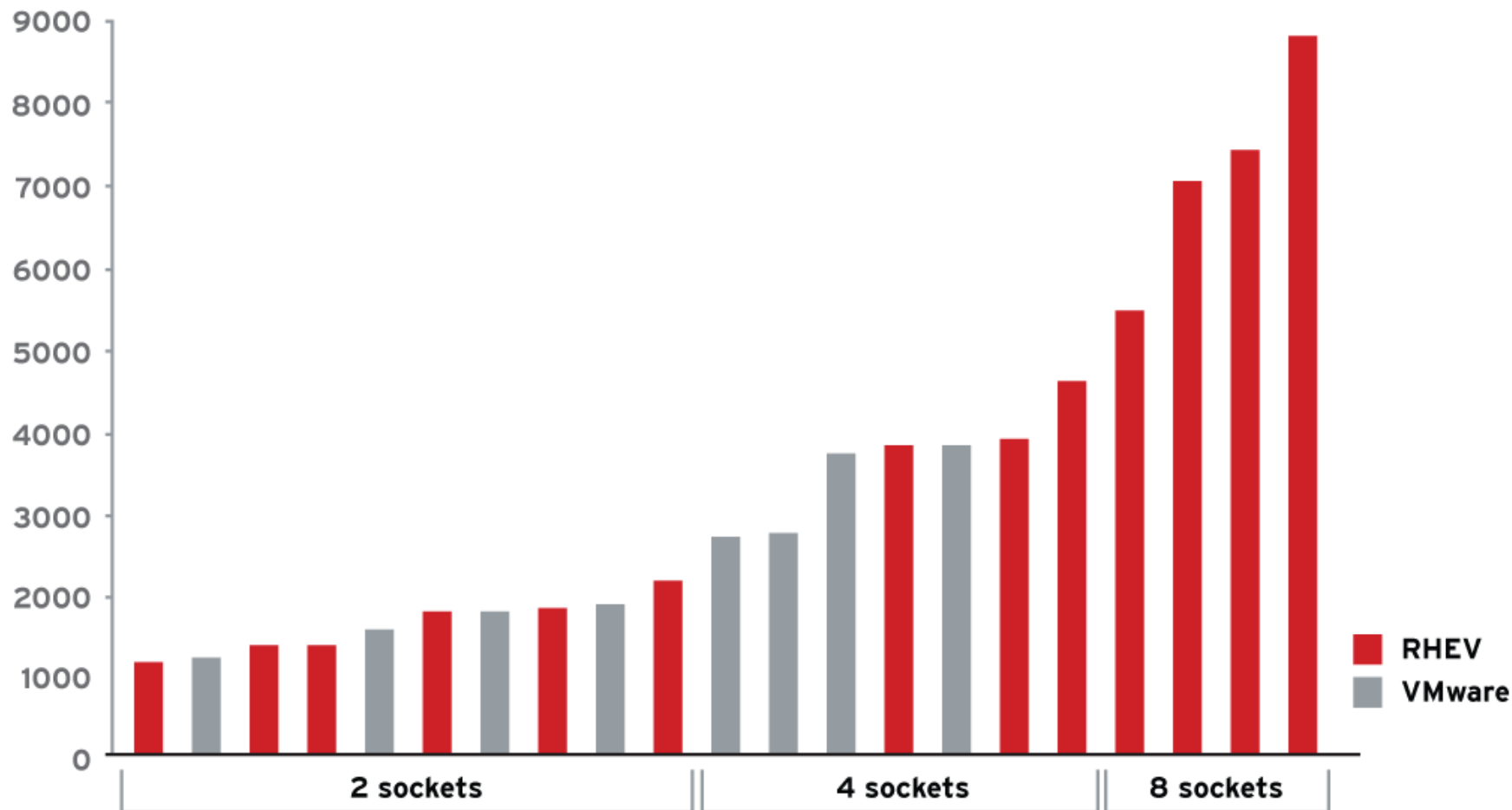
INDUSTRY LEADERSHIP: THE ONLY END-TO-END OPEN VIRTUALIZATION INFRASTRUCTURE



INDUSTRY LEADERS IN INFRASTRUCTURE, NETWORKING, STORAGE ARE BACKING RHEV



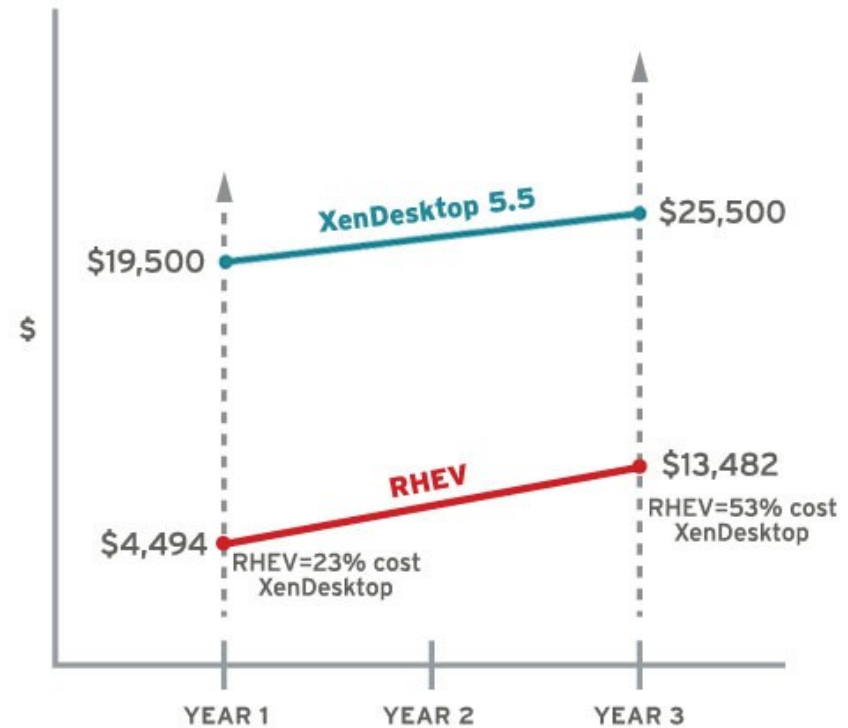
INDUSTRY LEADING VIRTUALIZATION PERFORMANCE



- **SPECvirt_sc2010:** As of January 1, 2012, RHEV claims top 6 results and the only 8 socket server scores



SIGNIFICANT COST ADVANTAGE

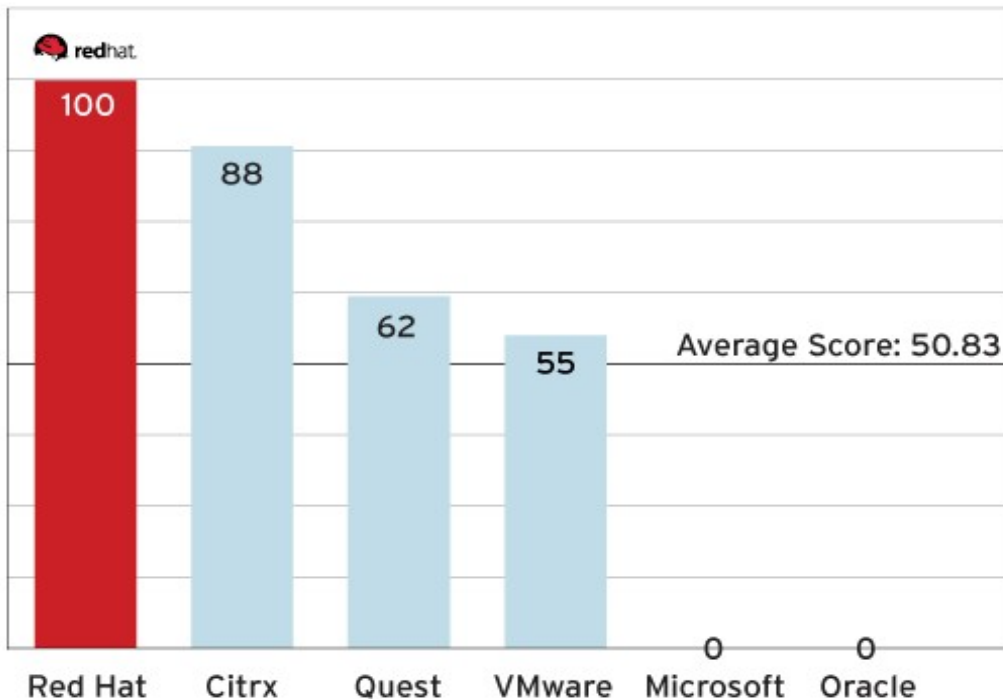


100 desktops on 6 sockets (three dual-socket servers)

- **RHEV for Desktops delivers more value...**
 - Windows & Linux desktops
 - Desktops & Servers
 - Included self-service user portal



RHEV FOR DESKTOPS: DELIVERING REAL VALUE!



Source: 2011 InfoTech Desktop Virtualization Vendor Landscape

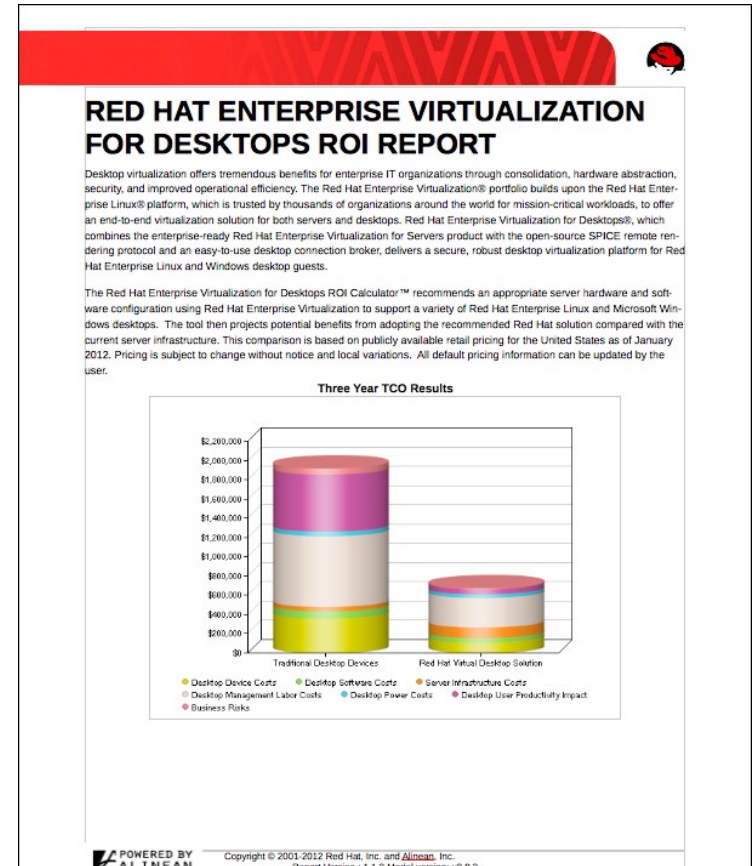


“On a relative basis, Red Hat maintained the highest Info-Tech Value Score™ of the vendor group. Vendors were indexed against Red Hat’s performance to provide a complete, relative view of their product offerings.”



CALCULATE TCO & ROI YOURSELF...

The screenshot shows the login interface for the Red Hat Enterprise Virtualization TCO Calculator. It features the Red Hat logo at the top left. Below it, the title "Red Hat Enterprise Virtualization TCO Calculator" is displayed. A paragraph explains that the tool was developed by Alinean, Inc. and compares Red Hat's virtualization solution with other offerings. There are input fields for "Username:" and "Password:", a "Login" button, and a "Forgot Password?" link. A box on the right asks "Not yet registered?" with a "Sign up now." link. At the bottom, there are links for "License Agreement", "Privacy Policy", and "Contact Support", along with a "POWERED BY ALINEAN" logo.



www.redhat.com/rhev/desktop/cost





THANK YOU





APPENDIX



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