Red Hat's platform offerings:
Meet the experts

Red Hat Enterprise Linux & Red Hat Enterprise Virtualization
Product Management

June 2015
MEET THE TEAM!

- RHEL Product Management
- Virtualization Product Management
- IoT Business Strategy
- Engineering Managers & Technical Experts!
TOPICS WE NEED YOUR FEEDBACK ON!

The Future of the Operating Platform
• Additional way to consume and deploy RHEL beyond RPMs – need your feedback

SDN/NFV
• What interests you for improving the packet processing capabilities of your enterprise applications?

Security
• How can I better understand and harden my environment?

Virtualization
• What does the future of virtualization look like in your production environment?

IoT
• How do I achieve analytics, decision making, and security with Intelligent gateways?
FIT FOR PURPOSE OS: SOLUTIONS BEYOND RPMS?

One size OS does not fit all applications
• A common binary runtime for all my applications is difficult to manage so I want the flexibility to assign the runtime and dependencies my application needs and nothing more

I need a lot of flexibility so that I can choose where and how to host my applications
• I need my applications & their dependencies to reside wherever it makes the most sense and
• I want the apps and dependencies and services to be separable and possibly on different hosts of different types

I need to manage complexity so that I can innovate beyond what I can do today
• I want application and runtime services that evolve independent of my applications and
• I want these services capable of providing me with single system image even if everything is not on the same host
SOLVING SDN/NFV REQUIREMENTS: IMPROVING DATA PLANE PERFORMANCE?

Accelerated packet processing framework for my network applications
• I need a high performance packet processing framework that is scalable for virtual network functions (VNF) applications and other network-based services

Reducing CPU intensive bottlenecks for common packet processing operations
• Modern hardware provides built-in offload mechanisms resulting in better throughput and lower CPU utilization
• I want to take advantage of these capabilities to offload the processing of overlay network technologies, virtual switching, IPsec, etc.

Provide connection resiliency and improved performance while still maintaining backwards compatibility
• I want applications to be able to spread data across several sub-flows resulting in improved resource utilization, better throughput, and link redundancy in the even of a failure
SECURITY: PRESENT AND FUTURE

Compliance and Certification
• How can I track, manage, and understand things like USGCB, PCI, HIPPA, SOX, FIPS, and Common Criteria?

Security Tools
• What is SELinux, will I be OK if I turn it off, what does it really do, actually I turned it off a long time ago.
• What is OpenSCAP and how can I use it to better understand and also secure my environment?

Security Updates
• How can I understand the details about a new security issue, it’s not uncommon for the information I’ve found to be confusing or conflicting?
• How serious is a given security issue, I have a firewall, an IDS, and I use multi-factor authentication?
WHAT IS THE FUTURE OF VIRTUALIZATION?

Have we truly hit a point of commoditization in the hypervisor?

- For years, people have been discussing the point that “The Hypervisor Doesn't Matter”. With the continued fundamental dependence on virtualization and a hypervisor for next generation technologies, is this an accurate statement?

What will happen to my virtual environment in tomorrow's datacenter?

- Cloud Instances and Container technologies are a disruptive force driven by application teams/DevOps. What role with traditional virtualization play in the next generation datacenter?

Are we living beyond the days of bare-metal solutions?

- Containers are making an argument to pull computing back to bare metal. What are the implications of moving to bare metal vs. encapsulating modern application workloads inside virtual technologies?
SOLVING THE PROBLEM OF INTELLIGENCE AT THE EDGE: INTELLIGENT IoT GATEWAYS

Analytics and decision making don't need to be restricted to the cloud, Intelligent gateways can extend the capabilities of the enterprise to the edge

- I need the ability to not only transmit sensor data to the cloud, but also:
  - Have a short window to make decisions and act on my data
  - Am bandwidth constrained or am concerned about bandwidth costs and can benefit from preprocessing of my sensor data

- I have field level control requirements that persist if I lose connectivity or don't make sense to administer globally

Security, management, and/or interoperability specifications make it necessary to bridge my OT infrastructure to meet IT requirements:

- I have interoperability requirements that require me to collect and normalize data from previously unconnected systems, and bridge the security requirements of IT with OT infrastructure

- I need the ability to update my field systems, at the application level and to ensure security errata are applied
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