

OPEX Reduction Using Red Hat Satellite at TLV Stock Exchange

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E&M Computing Ltd. (EMET)



- EMET provides computing architecture and infrastructure solutions for enterprise customers
- EMET is RedHat Premier Partner, with a team of professional Linux engineers that designed, implemented and maintains Open Source infrastructure for many enterprise customers in Israel
- TASE project: EMET assisted TASE with architecture and implementation of legacy core systems migration from VMS, HP-UX Solaris and Windows to RedHat Enterprise Linux

The Customer



- TASE - Tel-Aviv Stock Exchange
- High-throughput, highly available Trading System
 - In-memory system
 - 1..2 milliseconds per trading instruction
 - Millions of trading instructions daily
- Legacy Core system:
 - Highly available infrastructure based on VMS, HP-UX and Solaris clusters, IBM Mainframe and Windows servers.

Project Challenges



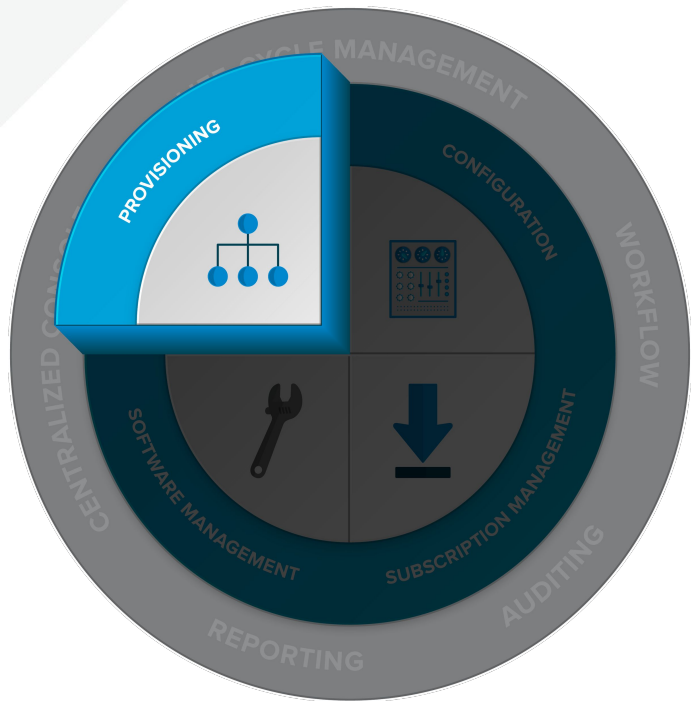
- Support smooth migration from VMS, HP-UX and other OS's to RHEL
- Support service uptime of 99,9999%
- Centralized server provisioning and configuration and patch management
- Comply with Organization Security policies and regulation requirements
- Quick response to critical vulnerabilities such as HeartBleed/Shellshock
- Build and maintain a stable and consistent server and application life cycle management system for Development, Test and Production environments

RH Satellite - Efficient Systems Management



- Provides life-cycle management for Red Hat Infrastructure
- Enables Provisioning of Bare-Metal, Virtualized and cloud based infrastructures
- Provides centralized management
- Simplifies management of content
- Make it easy to manage and track Subscriptions

Provisioning



- Provision to bare metal, virtual and to the cloud.
- Federate content delivery.
- Support build-based and image-based deployments.
- Discover non-provisioned hosts.

System Configuration



- Define desired state of systems
- Manage and re-mediate drift
- Audit and report when changes are made

Software Management



- Define and manage Standard Operating Environment
- Quickly respond to Security vulnerabilities
- Comply with the Organization's Security policies
- Deploy all Red Hat infrastructure as well as 3rd party software.

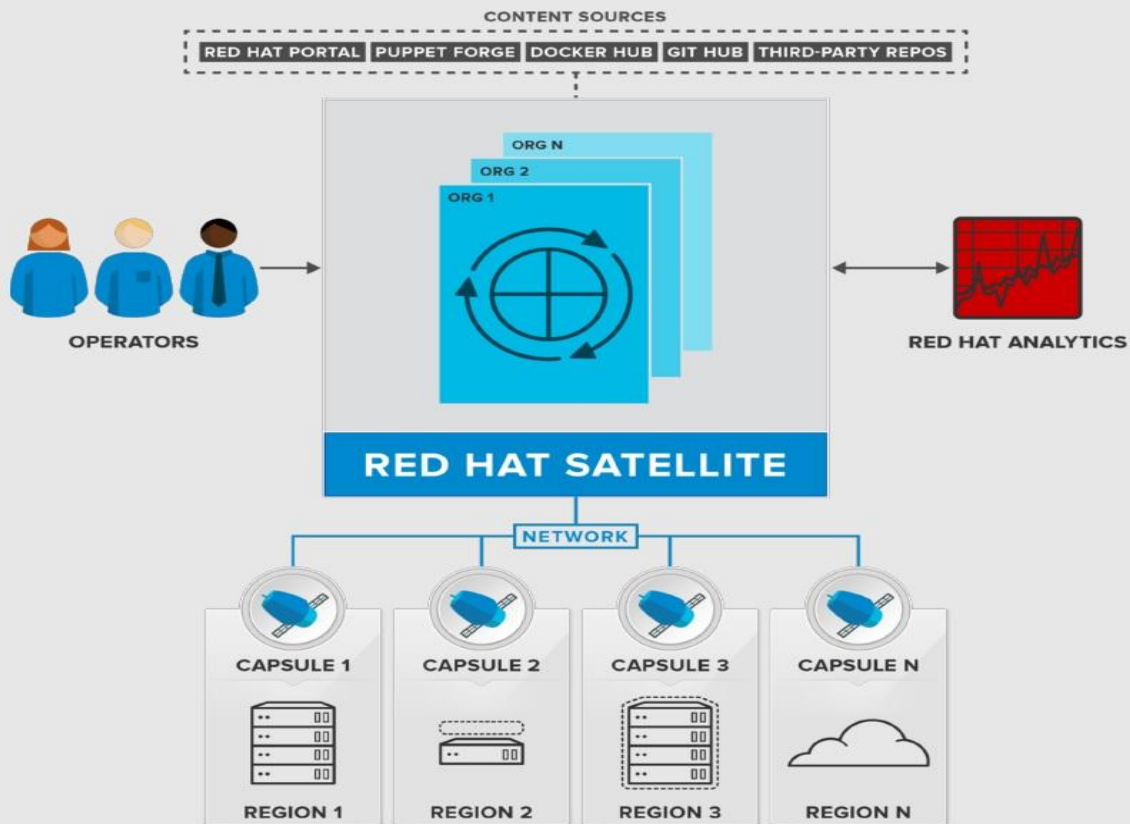
Subscription management



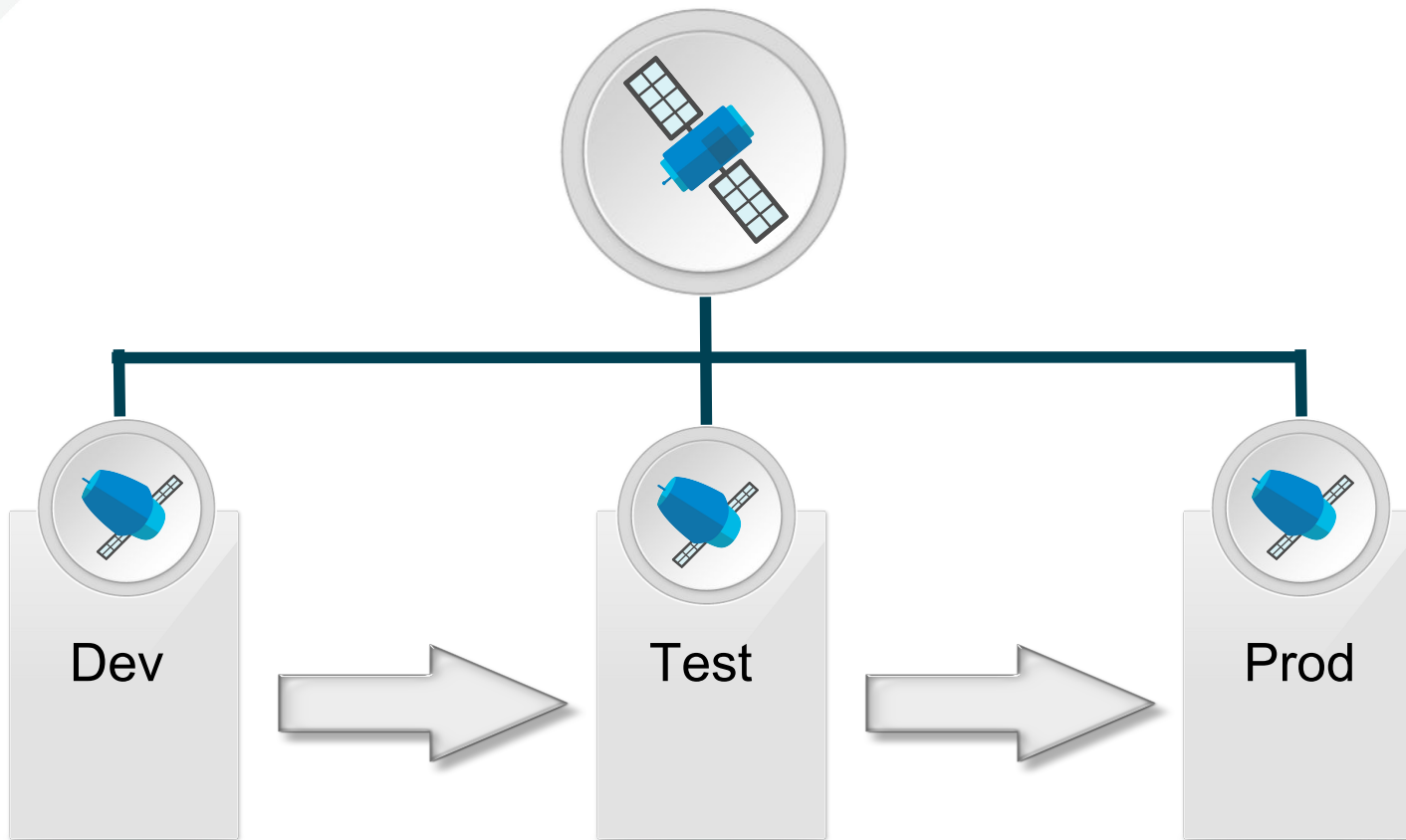
- Centrally manage subscription usage
- Maintain accurate inventory and utilization information
- Report on subscription consumption on a group-by-group basis

Satellite 6 Components

SATELLITE 6 ARCHITECTURE



TASE Environment



And now we switch to Hebrew...

Questions?



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