



HP Cloud OS

Платформа OpenStack корпоративного уровня

Иван Кровяков

Архитектор облачных решений

HP Центральная и Восточная Европа

What is OpenStack® Software

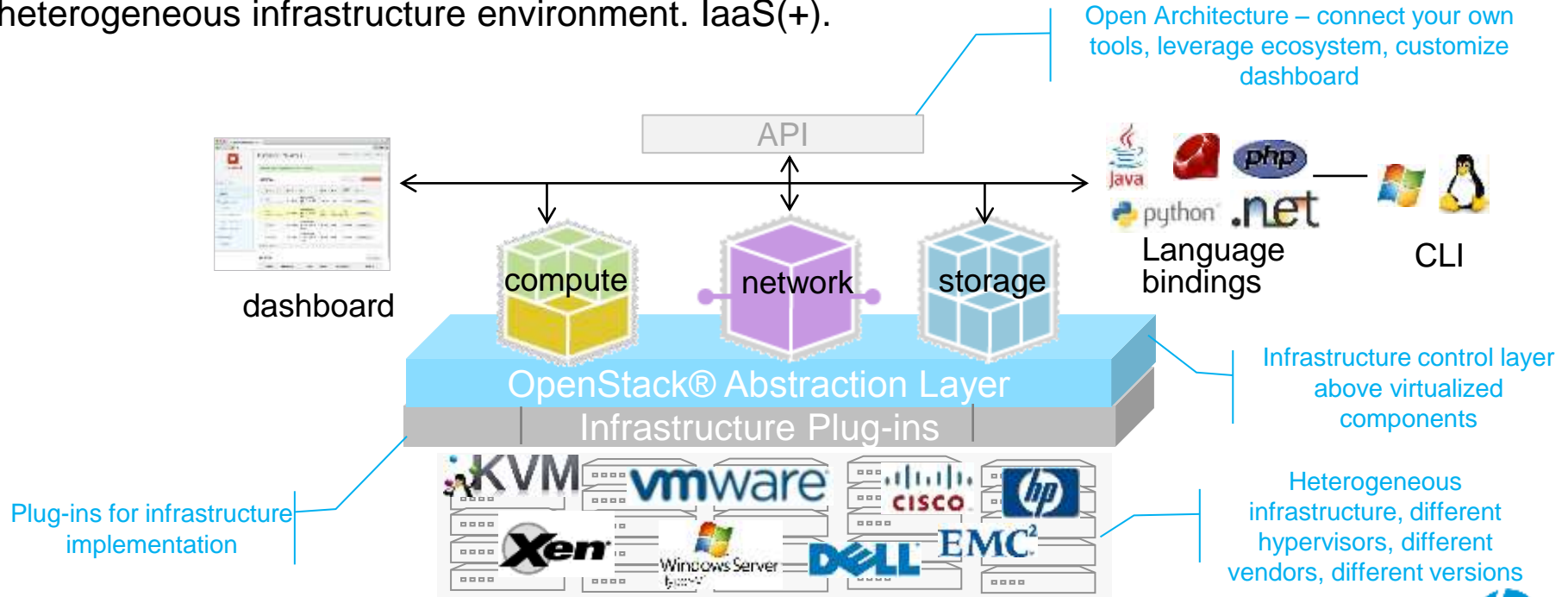


- **Massively scalable** cloud operating system that controls large pools of compute, storage and networking resources
- **Community open source** with contributions from **1000+ developers** and **180+ participating** organizations
- **Open web-based API** Programmatic Infrastructure as a Service
- **Plug-in architecture**; allows different hypervisors, block storage systems, network implementations, hardware agnostics, etc.
- **Fastest growing and rapidly adopted** Open Source project
- **HP is a Platinum member** gaining transparency into governance, roadmap, blueprints, and development.



OpenStack® in a nutshell

A series of **interrelated projects** that control pools of compute, storage, and networking infrastructure exposed as a **consistent and open layer (API)** for a heterogeneous infrastructure environment. IaaS(+).



HP OpenStack Leadership



Platinum Member

- 2 Board members
- 2 elected members of the Technical Committee
- Legal Affairs, Incubation, Election, Training, DefCore Committees

Top Community Contributor

- Top contributor in Havana by # contributions (2nd), lines of code (4th), and reviews (4th)*
- 3 PTLs and 18 core team members
- Employed #1 reviewer for Havana release, 5 of top 20*

Leading Hybrid Cloud Offerings

- Named “Leader” in Forrester Wave for private cloud; built on OpenStack technology
- One of largest OpenStack-based public cloud infrastructures

Dedicated Staff

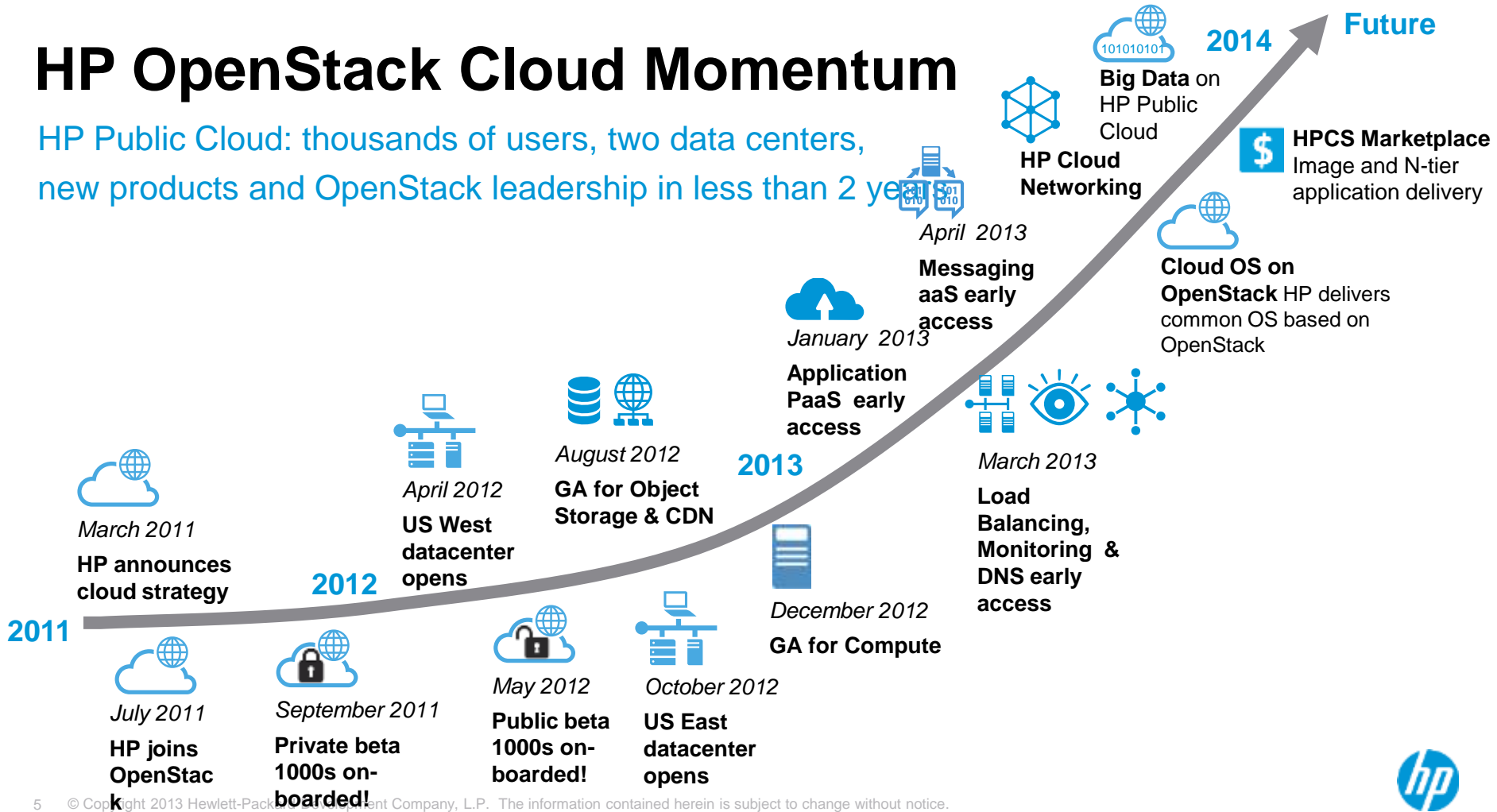
- #1 largest contributor by employee for Havana*
- Only company with dedicated resources to infrastructure
- Leading & providing the majority of staff for continuous integration project
- Continuous Integration/Deployment runs on HP’s Public Cloud

Top Contributors



HP OpenStack Cloud Momentum

HP Public Cloud: thousands of users, two data centers, new products and OpenStack leadership in less than 2 years



Introducing HP Cloud OS

Industry's first OpenStack®-based technology platform for hybrid delivery

Common Architecture for Converged Cloud

Cloud OS technology embedded in existing products & Solutions

New innovations to expand portfolio

Cloud OS Sandbox Technology Preview

Based on OpenStack®

Fastest growing open source project

Rapid innovations from a community of thousands

HP is a top contributor in OpenStack

Open and extensible

Simplified OpenStack Installation

Automated patch and OpenStack release management

Standards-based infra and app modeling

Enables seamless hybrid delivery



Private Cloud



Managed Cloud



Public Cloud



HP Cloud OS based on OpenStack® cloud

software ~~software~~ Converged Cloud common architecture enabling hybrid cloud delivery



Simplified delivery

- Simple and accelerated installation and configuration process
- Centralize management of your cloud environments
- Automated-live content distribution (upgrades, patches, content)



Enhanced service lifecycle

- Model-based infrastructure topology for multi-tier applications
- Enable hybrid delivery model
- Cloud infrastructure health monitoring



Optimized cloud workloads

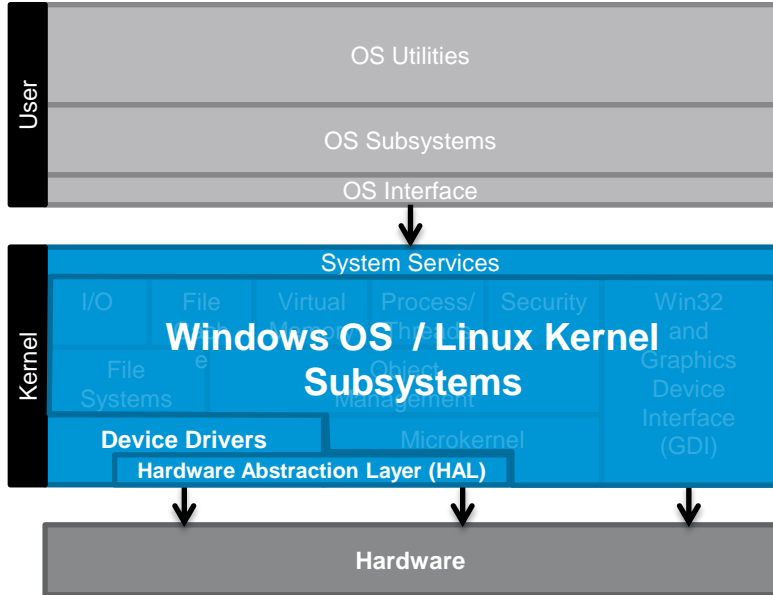
- Enable workload portability across cloud providers
- Model once, provision anywhere
- Workload aware provisioning



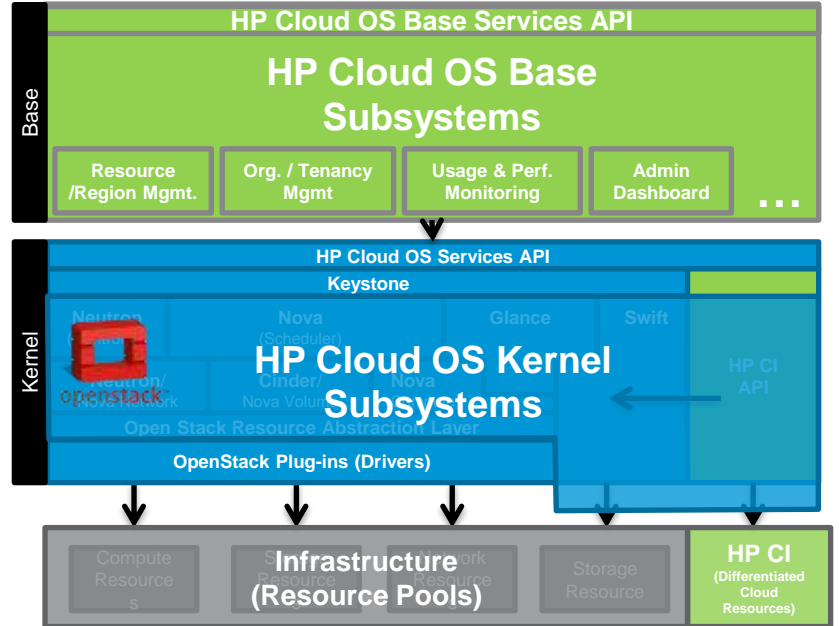
HP Cloud OS

Cloud operating system based on OpenStack®

Windows 32 / Linux OS



HP Cloud OS

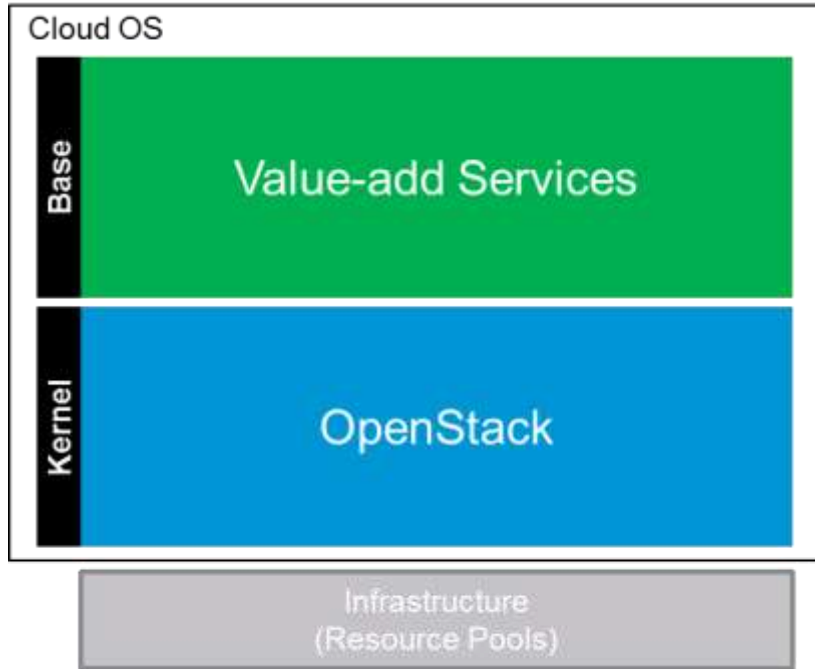


HP Cloud OS: Drives OpenStack adoption



HP Cloud OS in a nutshell

Feature Overview



Base services

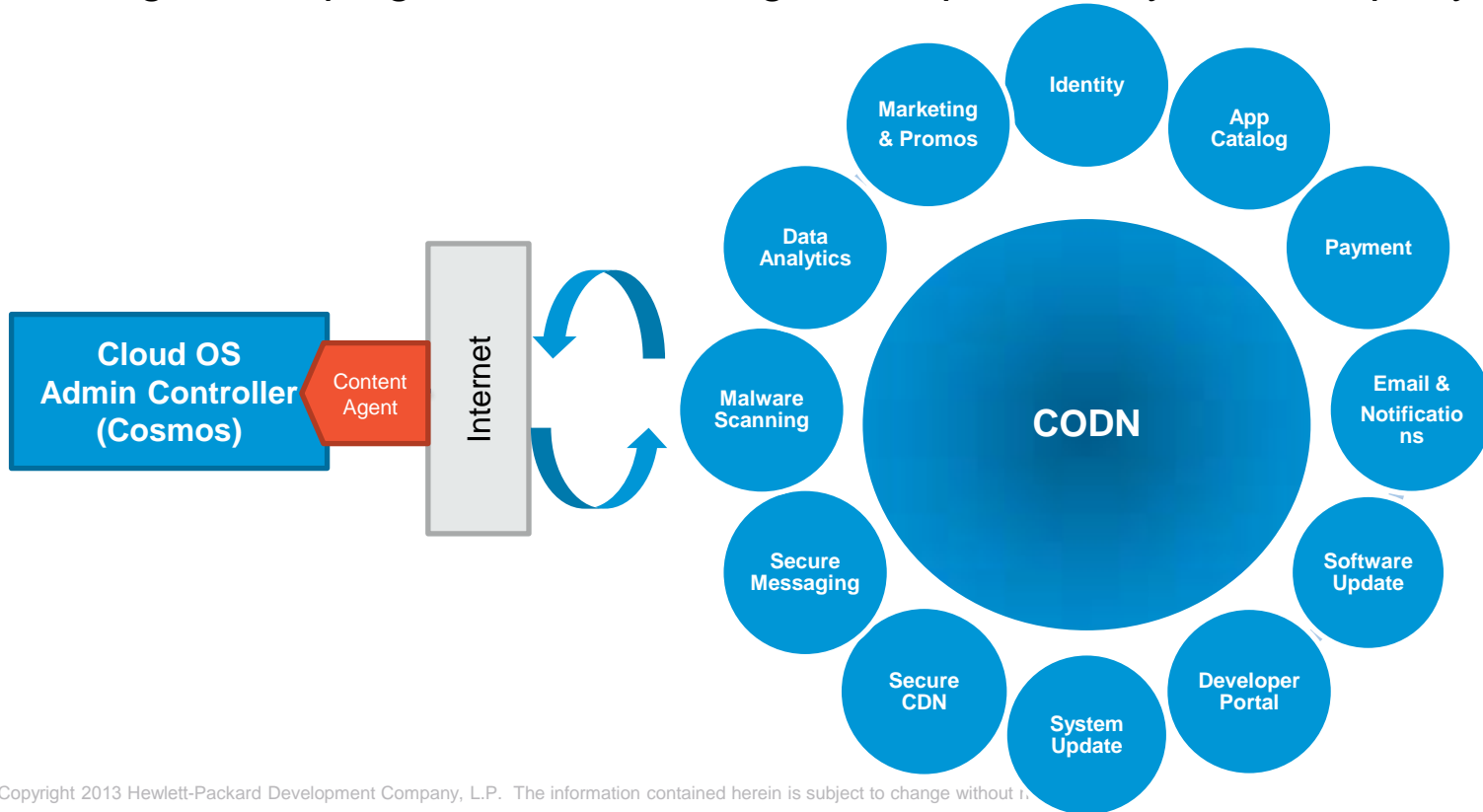
- Peer – Resource Pool Registry and Abstraction Service
- Eden – Execution and Utility Service
- Eve – Topology Provisioning Service
- Focus – Topology Document Repository Service
- Skyline – Cloud Administration Dashboard
- Cosmos – Cloud Installation Dashboard

Kernel services

- Cinder – Block Storage Service
- Glance – Image Service
- Nova – Compute Service
- Neutron – Network Service
- Keystone – Identity Service
- Swift – Object Storage Service
- Horizon – Web-based Dashboard

HP Cloud OS Distribution Network

For management, plug-ins, content/images, templates, payment, 3rd party



NEW: HP CloudSystem 8 built on HP Cloud OS

Designed to enhance business agility and productivity

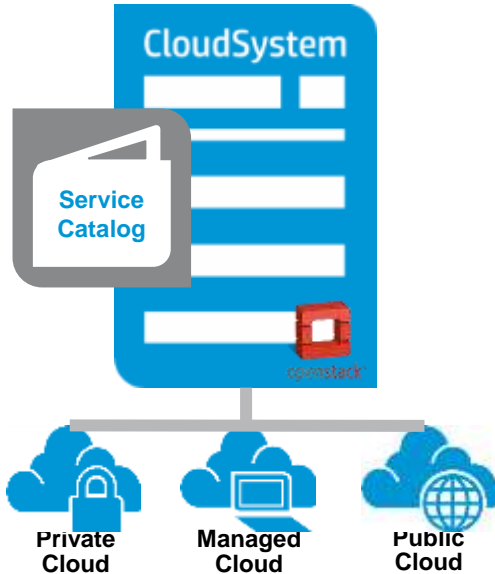
Consistency Consumer-inspired experience
New face of cloud dramatically improves productivity



Choice Open hybrid cloud
Reduce risk with the most open and flexible cloud solution



Confidence Easy on ramp to cloud in hours
Fast time to value with a proven, integrated solution



Download and evaluate: HP Cloud OS Sandbox

hp.com/go/cloudos

HP Cloud OS Sandbox

- Gain experience on OpenStack-based cloud architecture
- Workload portability in a hybrid delivery model
- Enable service lifecycle management



Includes:

- New Cloud OS Distribution Network (CODN) continual value adds
- New modern design and tools simplify multi-tier infrastructure deployment
- Enhanced infrastructure provisioning for post-deployment configuration and customization
- Improved scalability for primary storage and multi-region support

Thank you!

Q&A



Backup slides

