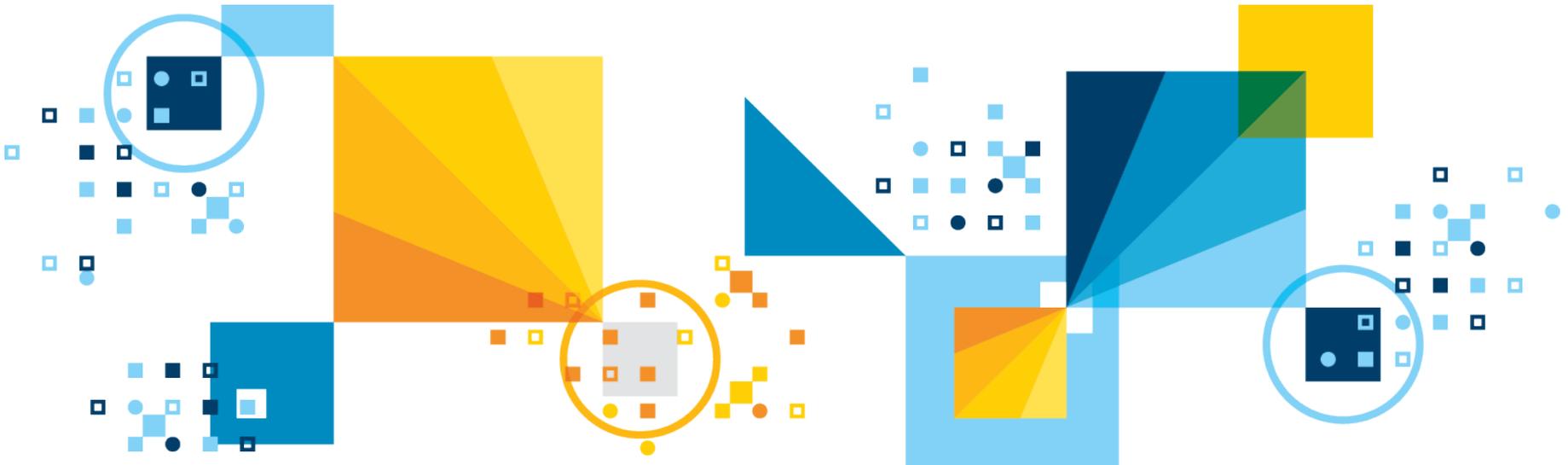


IBM Cloud -Softlayer & Informix

Sandor Szabo, IBM Informix Development
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2015 Informix Strategy

Continue to invest in existing Informix business and extend to new growth areas

- Continue China initiative, providing database technology for growth in China market
- Enhancements for high performance transaction processing
- Flexible Grid enhancements, sharding and NoSQL improvements

Drive IoT Gateway and embed business

- Smart Gateway enhancements for IoT: support for ARM, Intel/WindRiver
- Continue key OEM/ASL partnerships
- Processing/analytics at the edge with spatiotemporal capabilities
- Bluemix TimeSeries Service and IoT Foundation

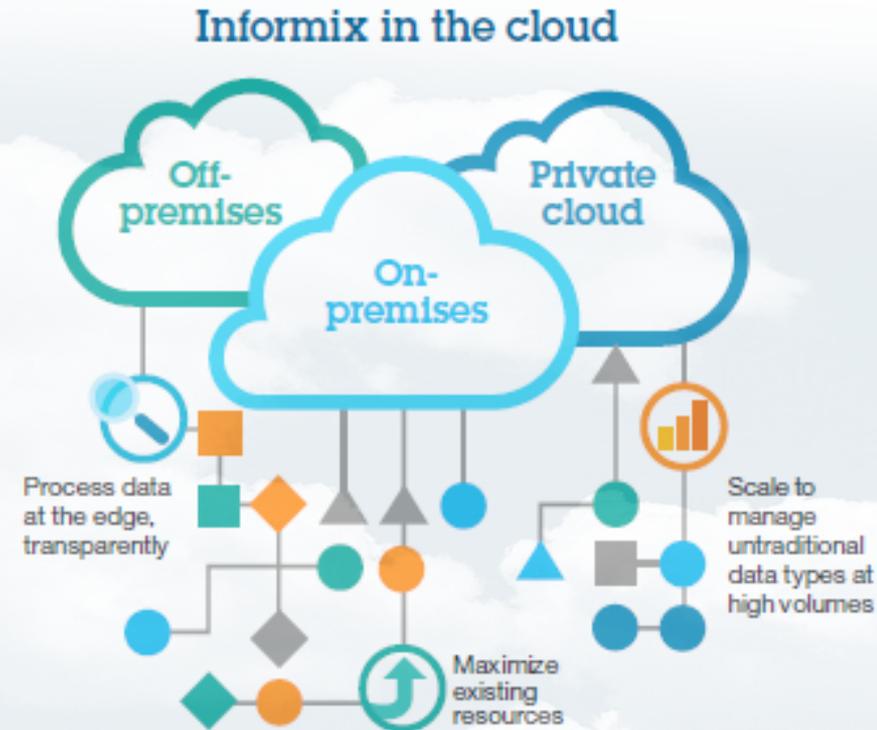
Extend Cloud capabilities for existing business and new customers

- Expand Cloud database-as-a-service offerings
- Differentiate with hybrid cloud flexibility for on/off-premise cloud environments
- Provide simplified IoT analytic operations with seamless integration to backend/cloud

Informix Cloud vNext: 2015

Enterprise Class Power, Bluemix Platform Agility

- Fully-managed solution
- Designed for enterprise-class workloads:
 - 1000+ simultaneous users
 - 1TB+ data
 - full HA instance standard
 - Automatic scalability for peaks
 - Extensive security features
- Informix Goodness:
 - SQL/NoSQL data
 - TimeSeries
 - Informix compatibility
 - IoT Gateway connectivity
- IBM Goodness:
 - Bluemix based solution, agile
 - Integration with other IBM Cloud offerings for Analytics, Development...



Cloud without compromise

≡ Global cloud leader



Formed by 10 industry veterans in 2005
Model predicated on software-driven infrastructure
Unencumbered by early-industry legacy restrictions

Founding principles

Innovation, Empowerment, Automation, Integration

Acquired by IBM in July 2013

≡ A working definition

Cloud (n) On-demand compute with consumptive billing

- **On-demand**
Rapidly provisioned services
- **Compute**
Servers, network, storage, firewalls, ancillary services
- **Consumptive billing**
Turns traditional fixed IT costs into variable - monthly or hourly

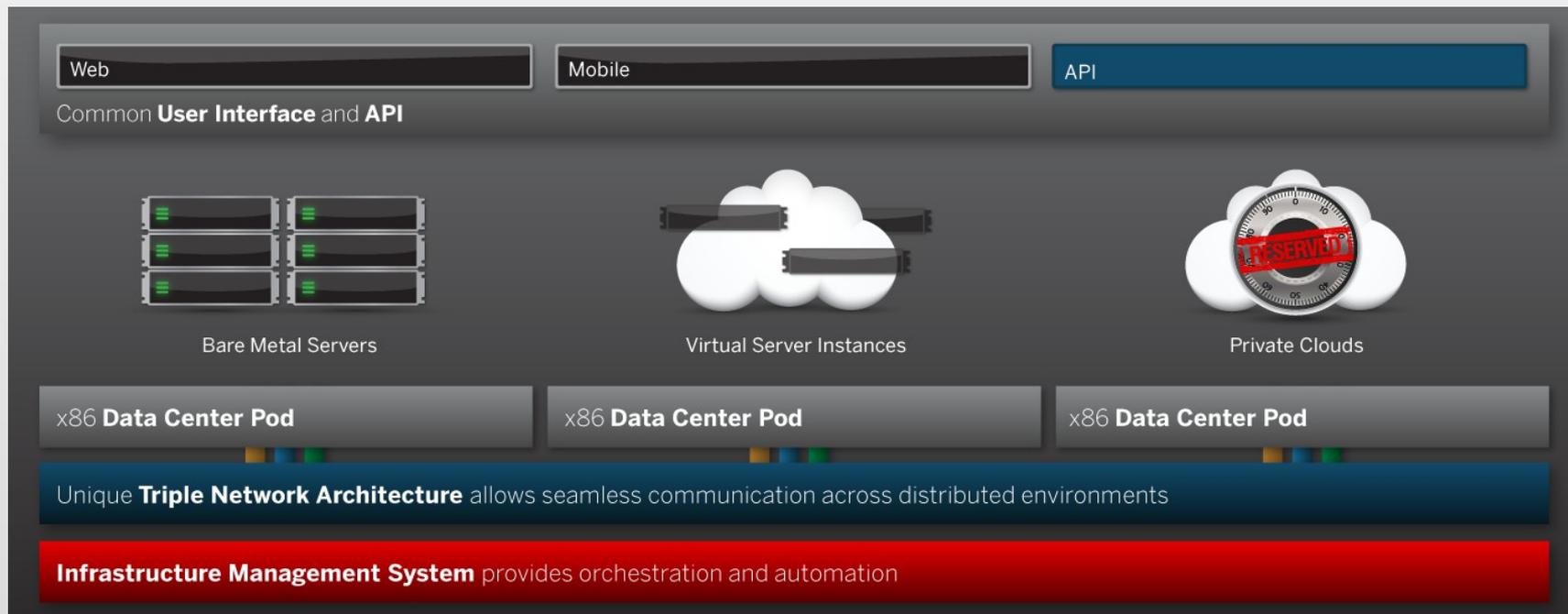
- Initial model—virtualized multi-tenancy computing—does not meet requirements for 100% of applications and use cases
- For broadest applicability, user-selectable levels of performance, security and isolation are required



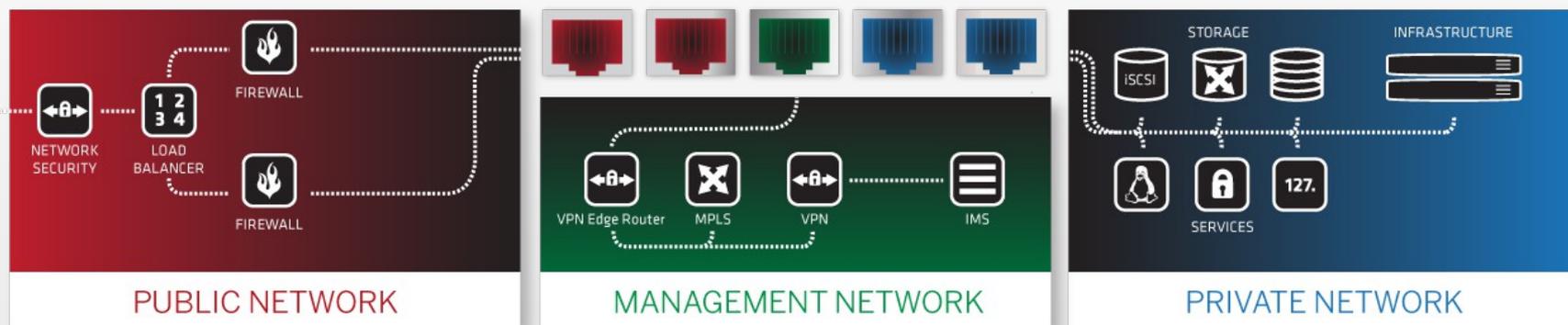
Global cloud platform

Unified architecture enabled by powerful software

- Only infrastructure solution with a common management interface and API across a unified architecture
- Mix and match bare metal servers, virtual server instances, and turnkey private clouds, and manage them from a single control pane or API
- All deployed on-demand and provisioned automatically in real-time



Triple-network architecture



- High-performance public network with transit from multiple tier-1 carriers
- Secure OOB management via VPN
- Private network for intra-application and inter-facility communications, access to shared services
- Native IPv6 support
- Virtual racks for integrated management
- Complete suite of network services

≡ Global footprint



- DATA CENTER & NETWORK POINT OF PRESENCE
- NETWORK POINT OF PRESENCE

IPv4/IPv6 dual stack
Global DNS
Global DDOS Mitigation
Global Internet Exchanges & Peering

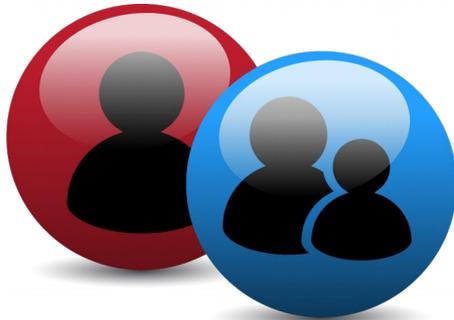
≡ SoftLayer advantages



Complete control,
access, and transparency



Seamless fault-tolerant,
multi-site topography

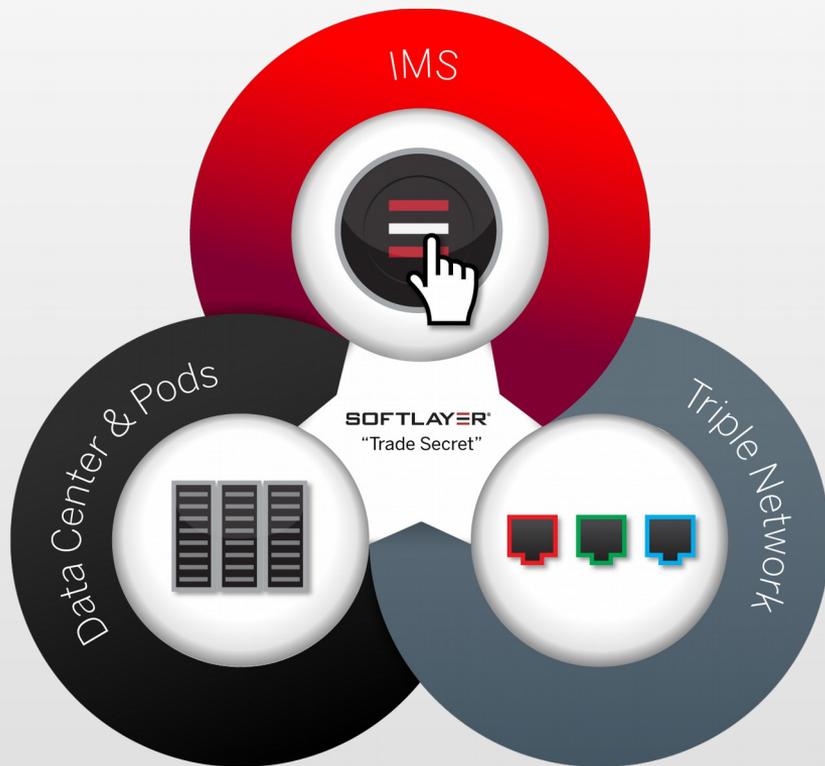


Single-tenant and
multi-tenant environments



Complete portfolio available
on-demand in all data centers

≡ How it all fits together



SoftLayer Infrastructure Management System

- Bare metal and virtual server provisioning
- Integrated BSS/OSS
- Comprehensive network management

Data Center & Pods

- Standardized, modular hardware configs
 - Lower inventory carrying costs
 - Maximize asset utilization and profitability
 - Increase provisioning flexibility
 - Simplify capacity management
- Globally consistent service portfolio

Triple Network

- Proprietary network architecture
- Pod design allows customers grow across multiple racks or rows in the same layer 2/3 domain as needed.

Demo:

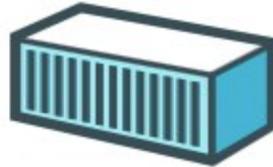
<https://control.softlayer.com/devices/monitoring>



Docker Engine



Build



Ship



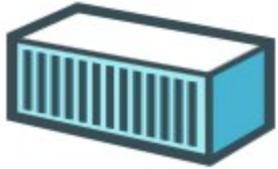
Run

A portable, lightweight application runtime and packaging tool built on top of kernel container primitives

Docker Engine

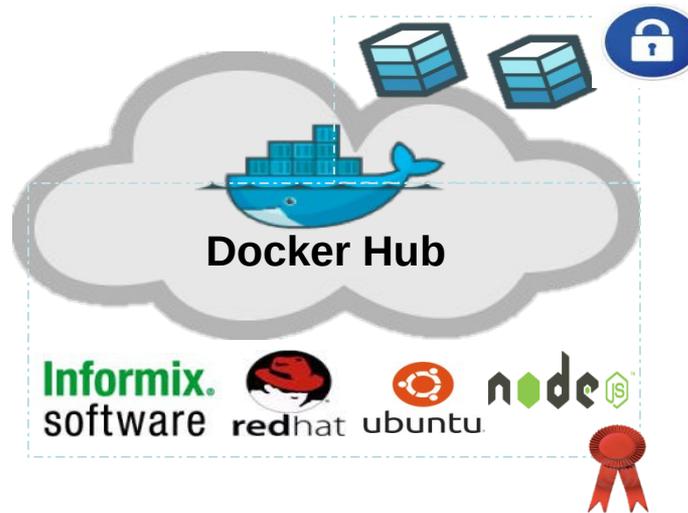
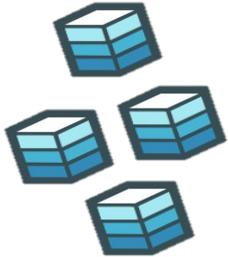
- Open source project
- Supported on every major Linux distro (MS Windows in 2015)
- Client-server architecture with daemon deployed on physical or virtual host
- Uses Linux kernel cgroups and namespaces for process resource management and isolation
- Uses copy-on-write filesystem for git-like image change management

Informix on Docker Hub



Ship

- Enable sharing and collaboration of Docker Images
- Private and public repositories of images
- Certified base images by ISVs
- <https://registry.hub.docker.com/u/ibmcom/informix-innovator-c/>



Informix 12.10: Simply Powerful

