

What You Make Possible







Orchestrating the Cloud Infrastructure using Cisco Intelligent Automation for Cloud

BRKSPG-1663



Business Drivers for Cloud

Long Provisioning Times for New Services

- Lack of agility
- High cost of IT staff
- Business-it dissonance

High Capital Costs Due to Provisioning for Peak Loads

- Low capacity utilisation
- High operating costs
- Overcrowding of datacentre

Pressure to Move towards Proactive SLA Management

- Labor-intensive, manual processes
- for service management

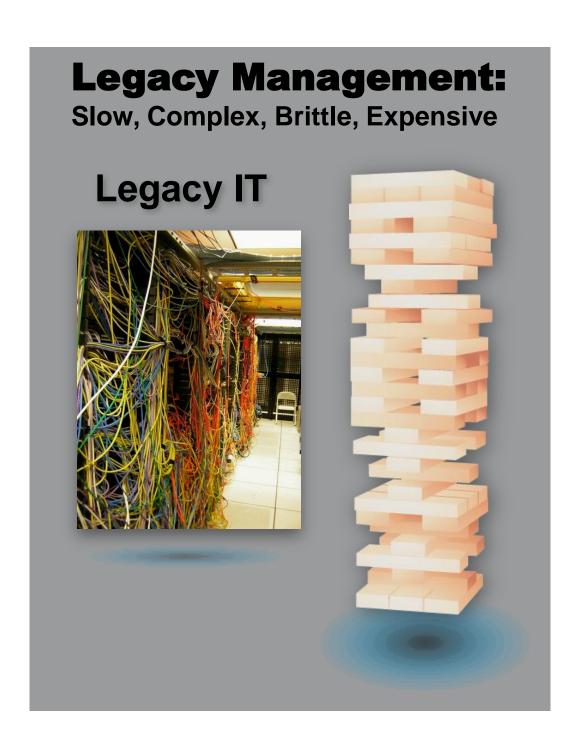
Lack of Centralised Control and Governance

- High error rates due to
- disconnected processes
- Infrastructure sprawl

Lack of IT-Business Alignment

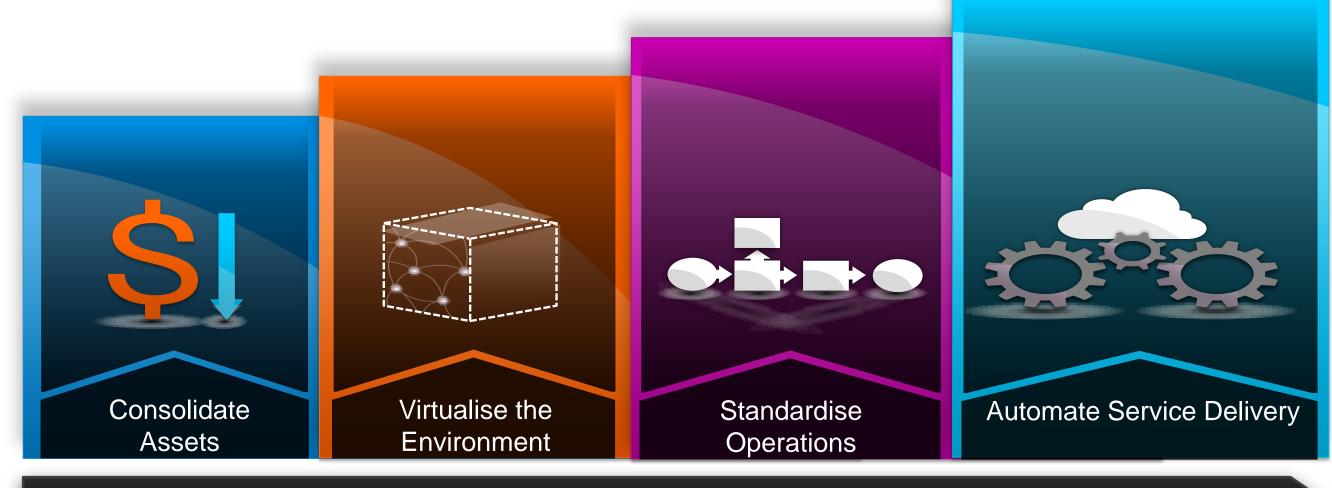


The NEXT Transition to Self-Service Orchestrated Cloud





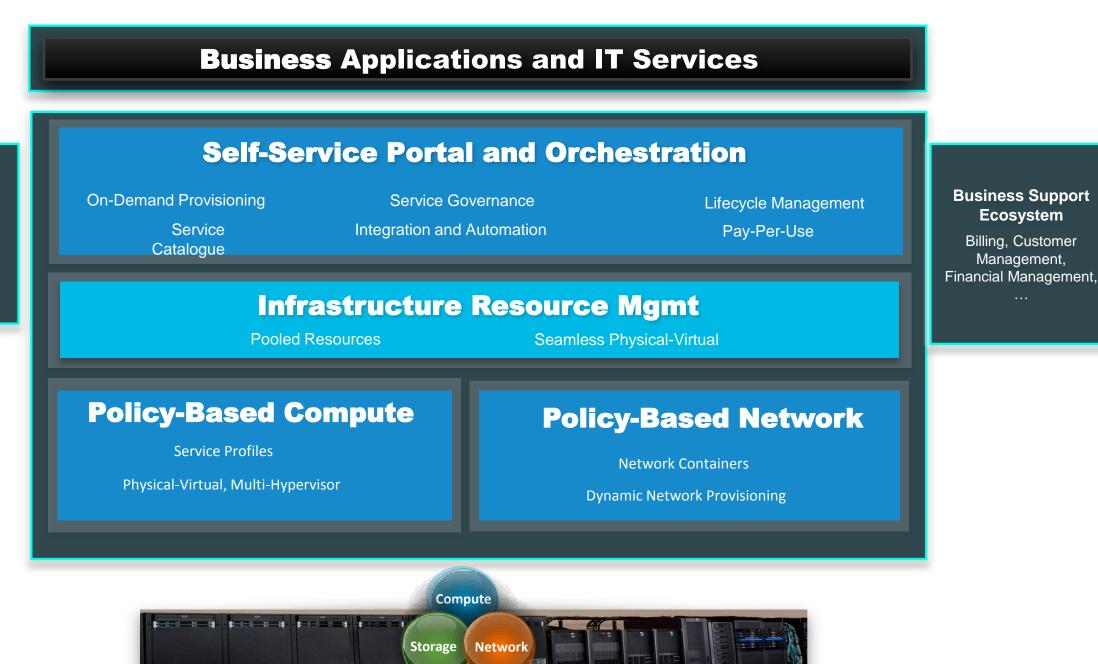
Journey to IT Delivered as a Service



Increased IT Operational Excellence (Agility, Efficiency and Simplicity)

Increased Cloud Readiness (Physical - Virtual - Cloud)

IT-as-a-Service Requires a New Management Approach





Operations

Support

Ecosystem

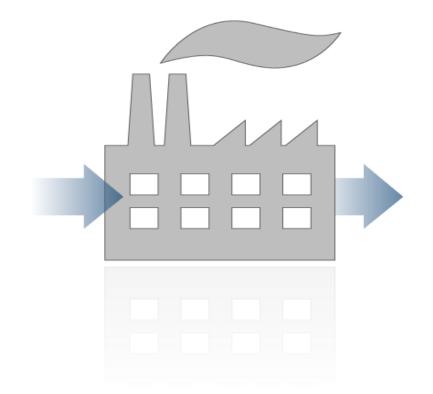
Service Assurance.

Compliance,

Configuration Management, ...

Cisco's approach to Cloud Computing

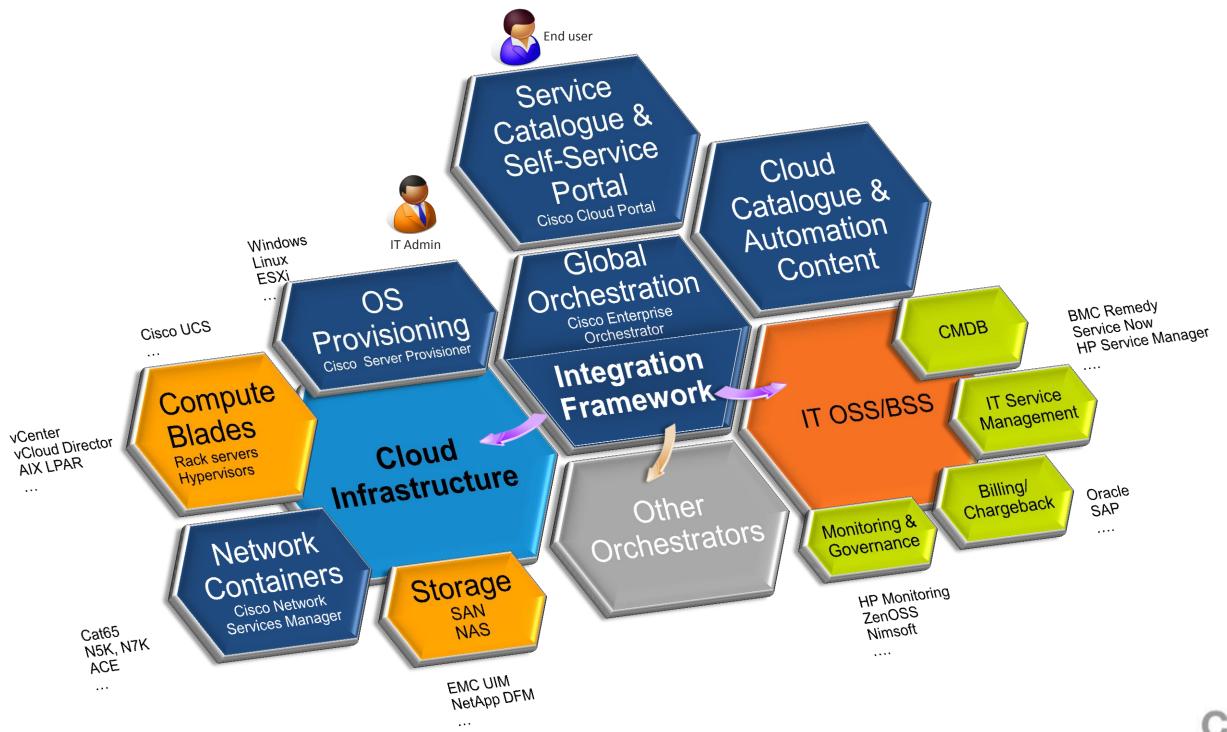








Cloud Solution Components



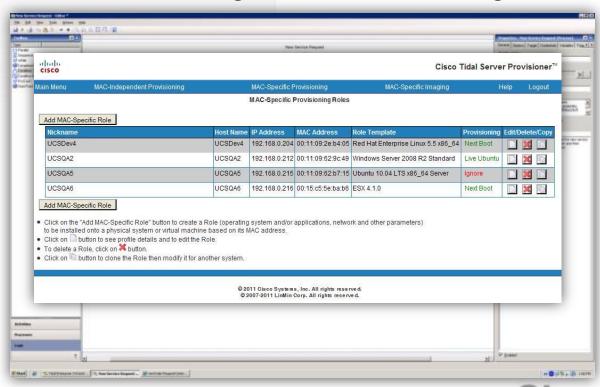


Solution Highlights

- One-stop shop self-service portal
- •IT service catalogue with tiers and pricing
- Governance, policies, approvals, & controls
- Lifecycle management & tracking
- Resource management & reservations

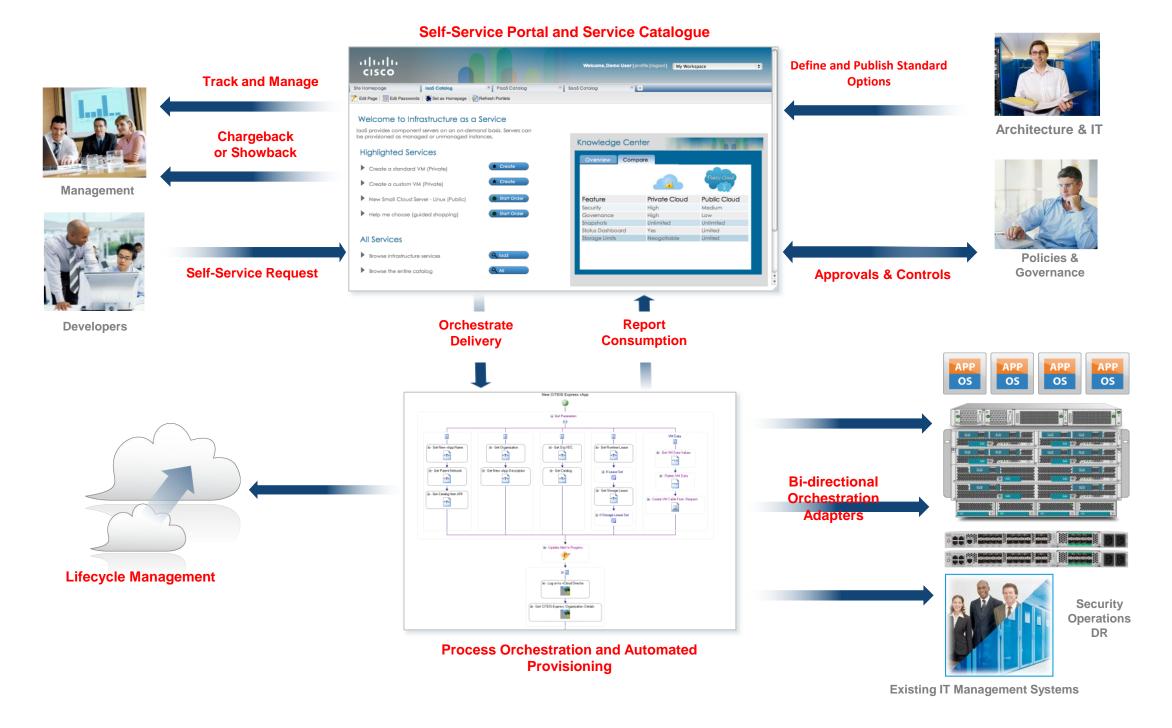


- Orchestrated infrastructure provisioning
- OS & app provisioning
- Virtual Data Centre Provisioning (VDC)
- Integration with ITIL tools & processes
- Automation of ongoing operations:
 - Monitoring, incident, fault mgmt



How it Works...

BRKSPG-1663





Cisco Intelligent Automation for Cloud Network Services Manager



Network Services Manager (NSM)

- Infrastructure architectures designed, tested and validated specifically for Cloud operations (VMDC).
- Seamless physical and virtual service components integrated with demand-driven Compute (UCS).
 - Designed for automation to quickly deploy physical/virtual services, infrastructure support services and bare-metal workloads.
 - Dynamically configure resources to accommodate diverse tenant needs and workloads.

BRKSPG-1663

Elastic scaling: rapidly scale-out tenancy and services for high demand; remove tenant infrastructure, supporting services and reduce power during low demand.

Virtualised Multi-tenant Data Centre

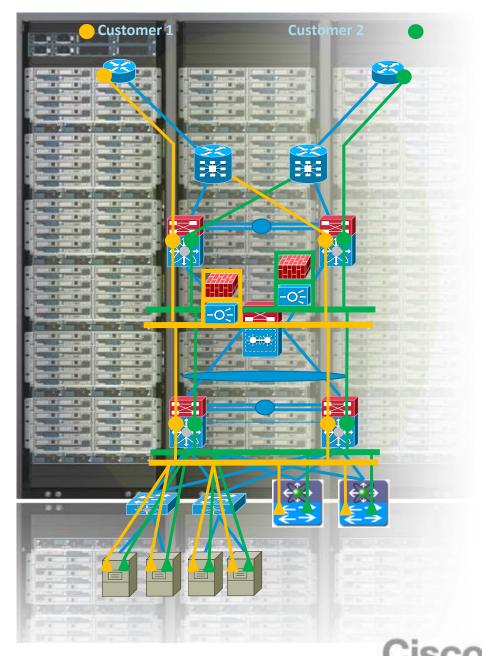


Cisco Public

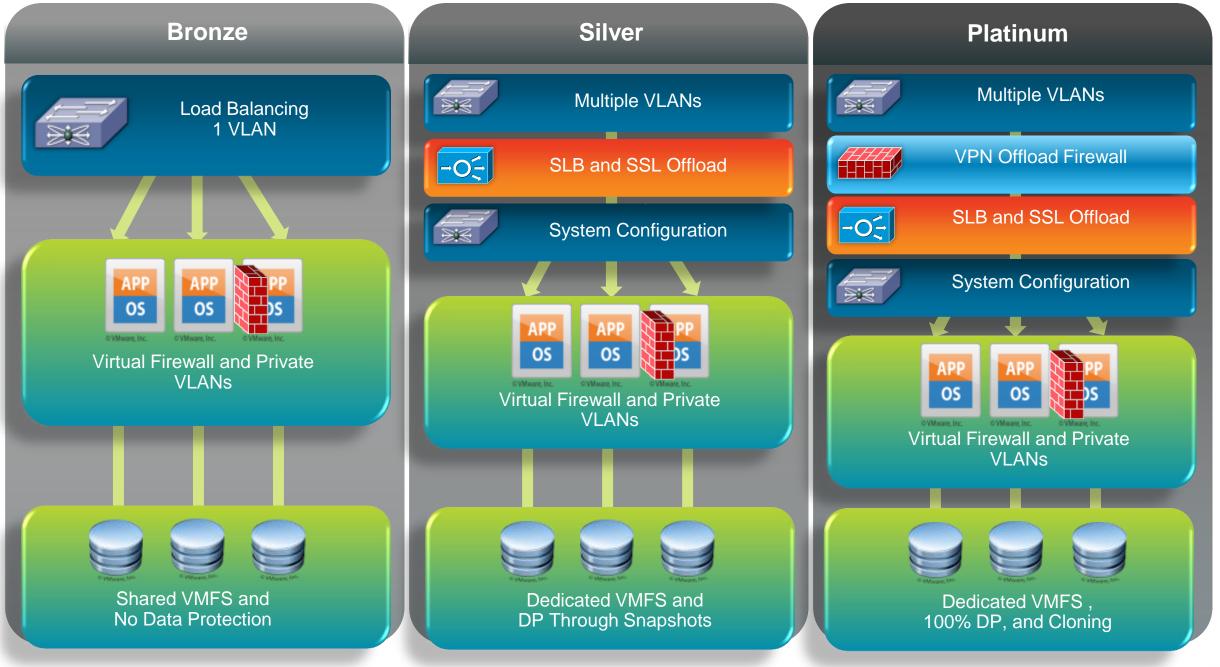
Cloud Enabled Network Infrastructure

- Fully isolated tenant environment (integrated security)
- Abstraction of complexities (enables speed)
- Automated processes and controls (ensures scale)
- Streamlined, holistic coordination of resources and services (maximises capacity)
- Customisable service definitions and implementation (shortens time to market)
- Proven, tested solutions infrastructure and automation/orchestration (reduces risk)

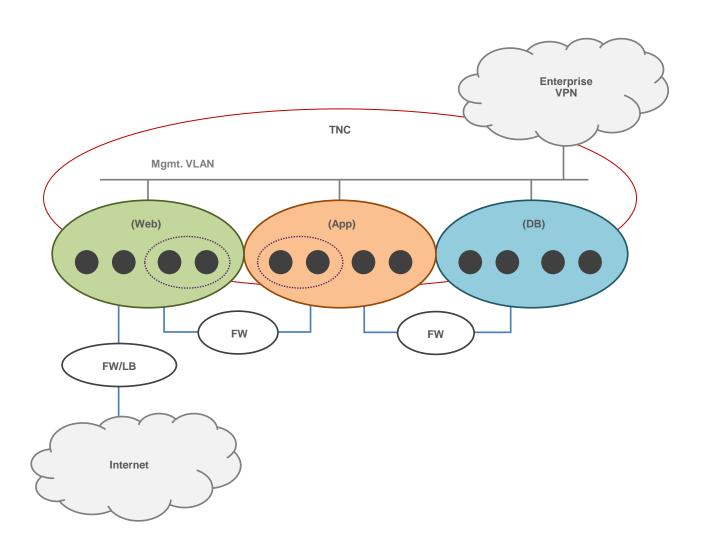
Virtualised Multi-tenant Data Centre



Network Services as Containers



Flexible Network Services



Tenant Creation

Basic Network Container

Enhanced Network Container

Large Network Container

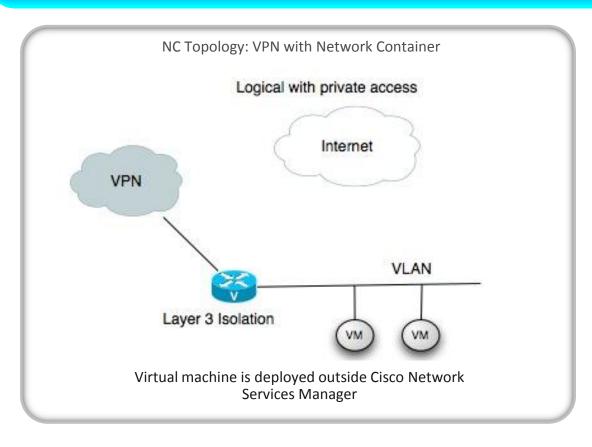
Security and Load Balancing Services

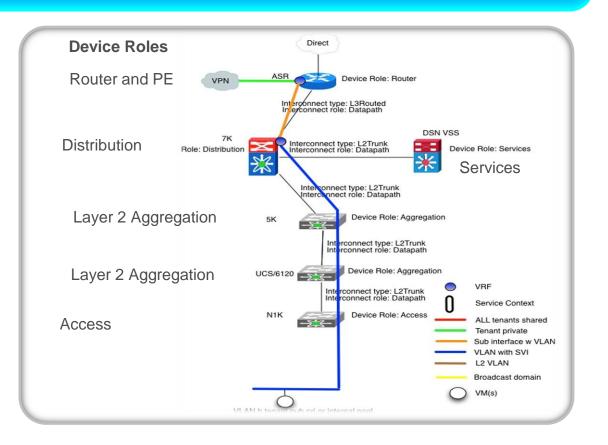
Multi-Tiered

Service Use Cases Using Network Containers

Sample Customer Use Case

- Computing and storage resources attached to a routable VLAN
- Capability to partition and zone virtual machines and access within their containers
- Accessible from a VPN connections (hybrid cloud)





This use case supports creation of a protected private zone. The customer requires that the only way to reach this zone is through a private VPN (MPLS, SSL, and IPsec). To build this solution, Cisco® Network Services Manager will build both the private zone and the network container within it.

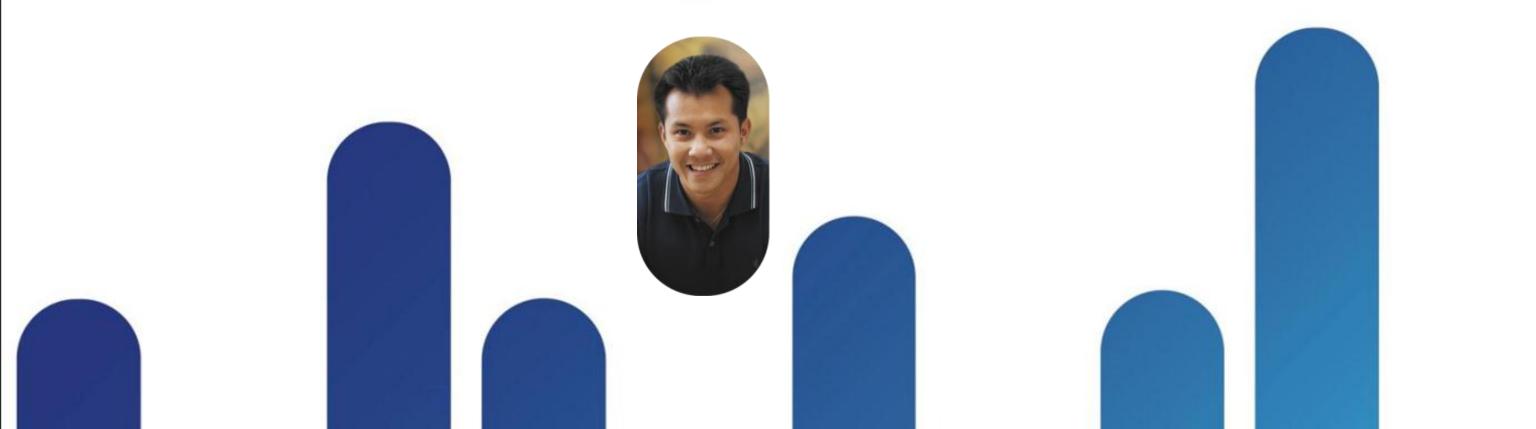




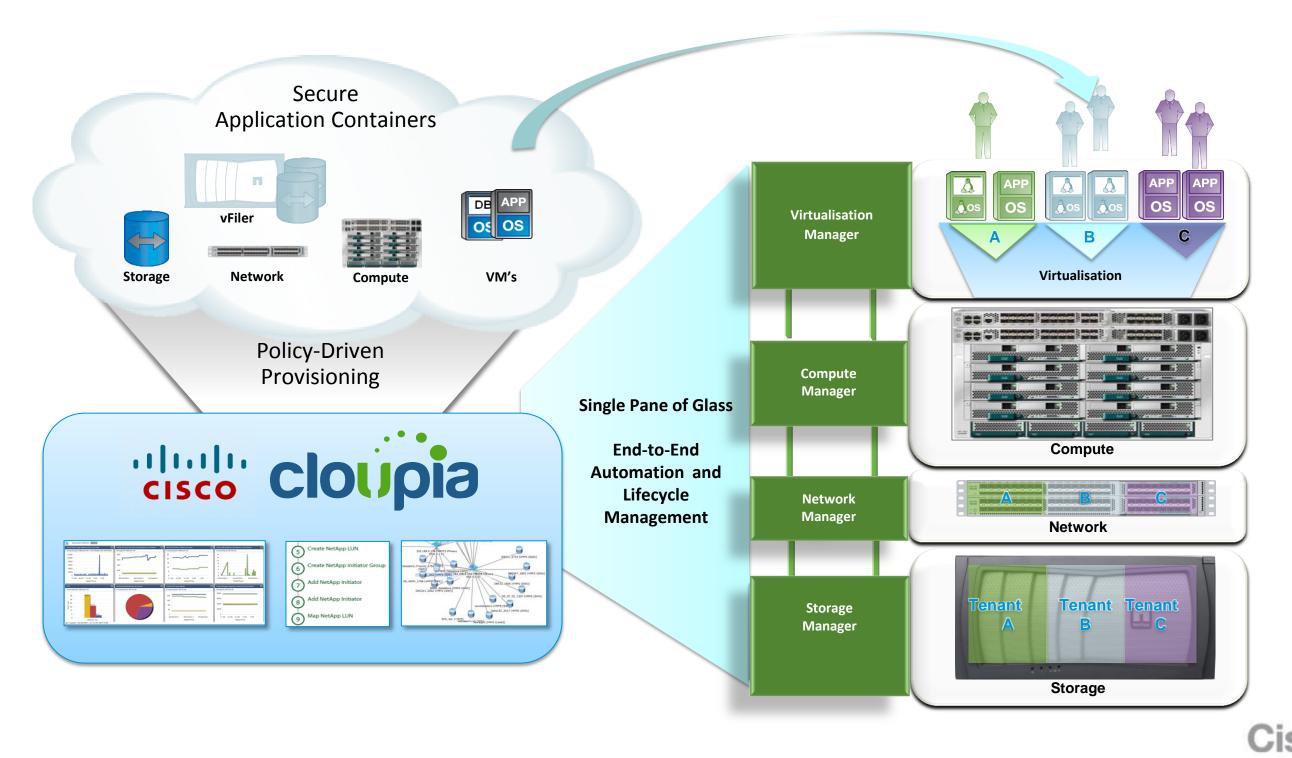




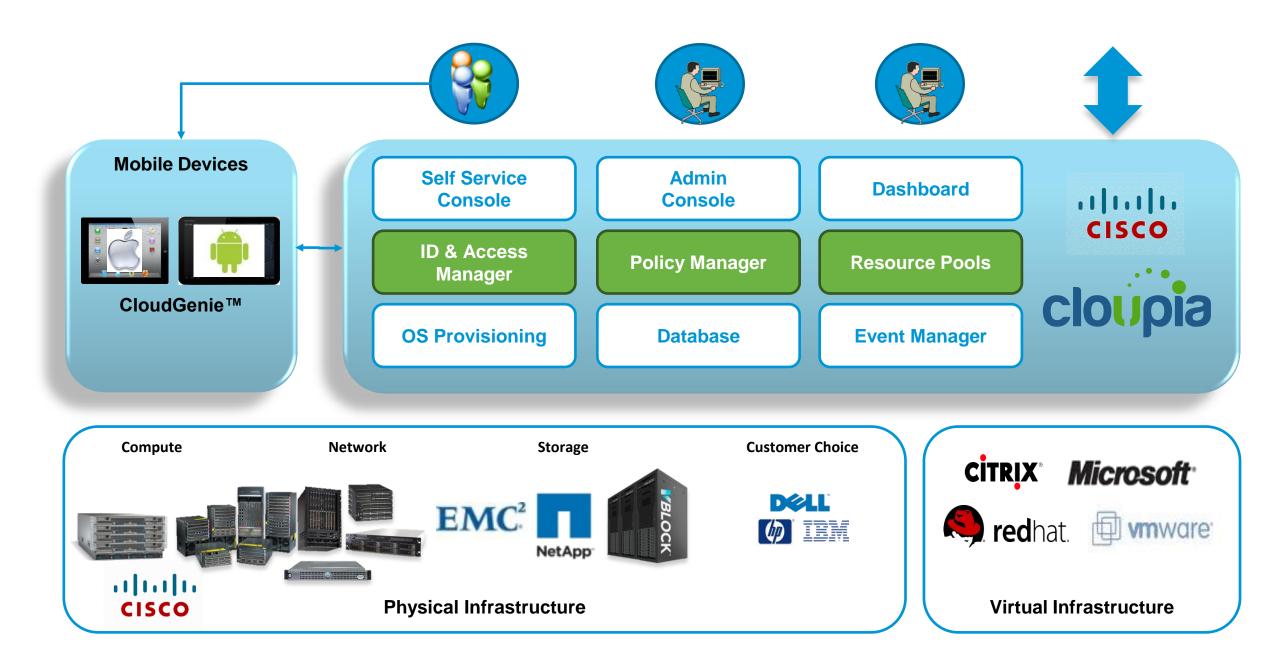
IAC and Cloupia Unified Infrastructure Controller (CUIC)



Cloupia Unified Infrastructure Controller (CUIC)



CUIC Converged Infrastructure Management and Automation





BRKSPG-1663

CUIC Seamless Data Centre Management Strategy

Self-Service Infrastructure Provisioning



Management Across Global Operations

Enforce Best Practices with Consistent Infrastructure Policies



Manage Hardware with the Flexibility of Software



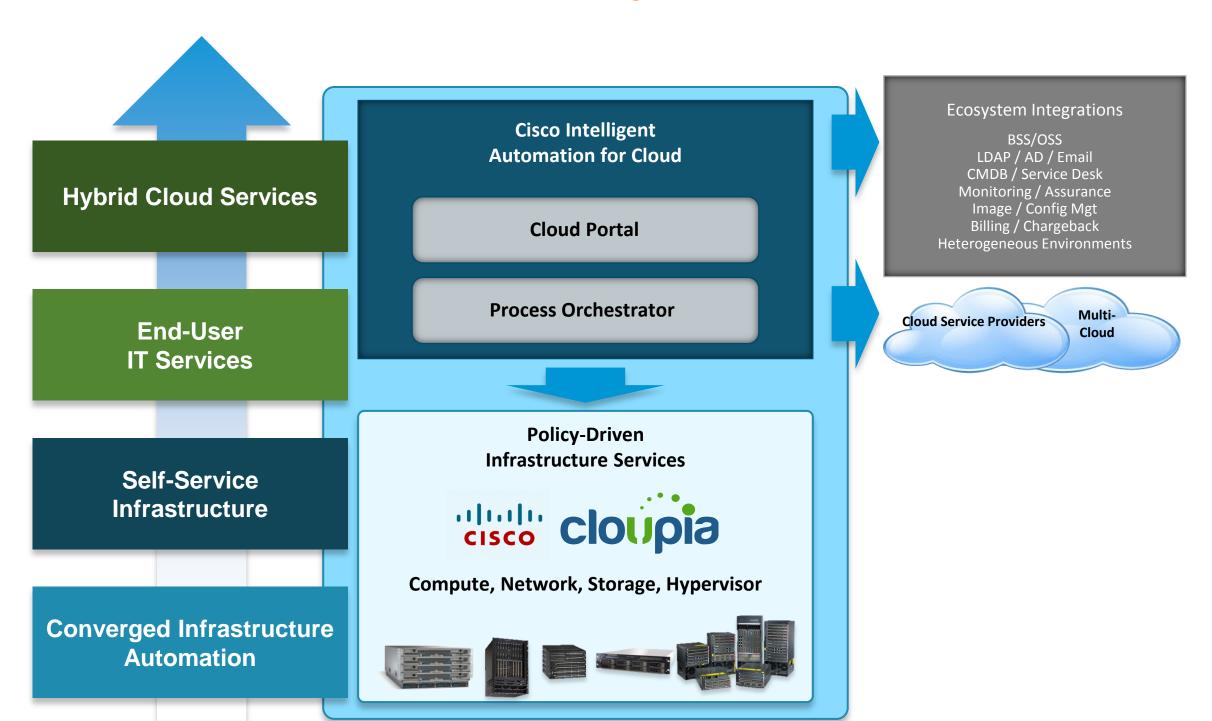








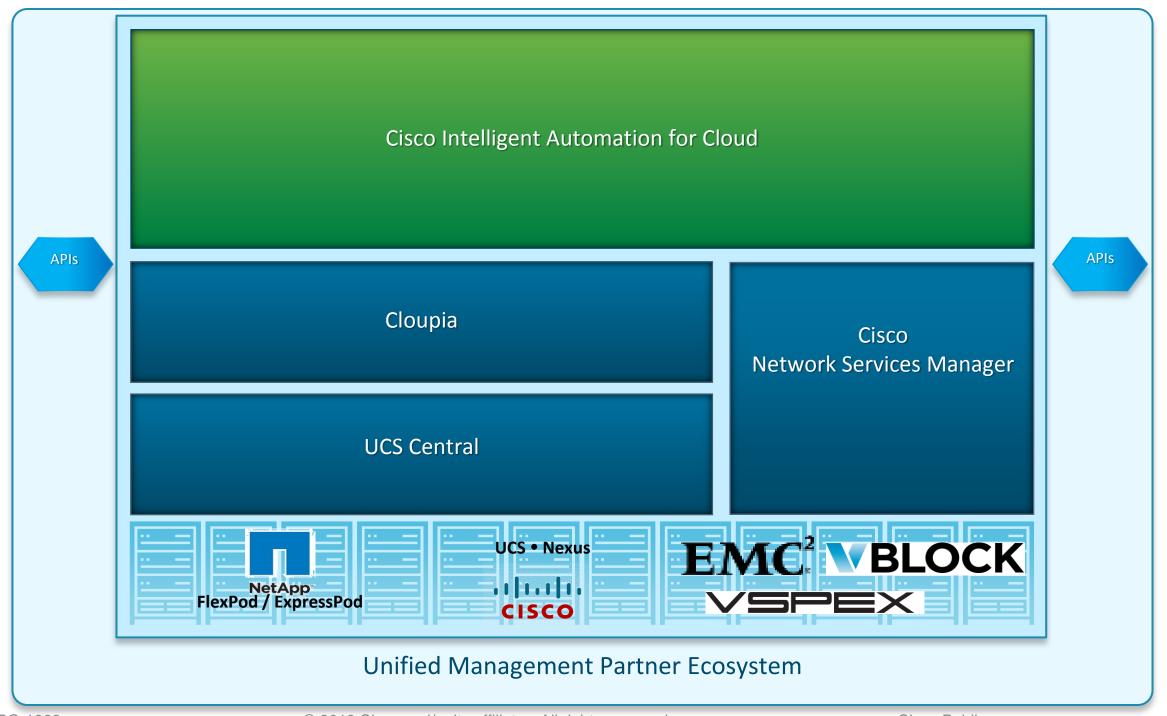
Cloud (IAC) and Infrastructure Management (CUIC)





Cisco Unified Management

Solutions for Cloud and Infrastructure Management





Why Cisco Customers Choose IAC?

'Right Size' solution Core service automation (catalogue, orchestrator) **Leverage existing** Open to heterogeneous hardware, virtualisation, IT software Allows customer flexibility and customer choice investments Agile cloud use case build-out Extensible from laaS to PaaS and other services **Flexibility** Content packs for rapid service creation & deployment Your friendly face to the business **World class user experience** Visual, no-code design of catalogue & automation **Optimised to Cisco UCS and other Cisco solutions Best in class platform** Support for common vendor infrastructure & OSS/BSS RBAC, policy controls, order governance & lifecycle mgmt This is our focus We specialise in IT automation & self-service Single support model For management, infrastructure and solution content

To Learn More

For details about the following capabilities...

Vblock orchestration

FlexPod orchestration

vCloud director integration

Hybrid clouds / cloudbursting

Multi-tenancy

VDI/VXI solutions

OpenStack integration

Other use cases

BRKSPG-1663

Integration framework, adapters and packs

Closer look at automation workflows

Closer look at catalogue & portal

Product screenshots

Demo videos

Advanced services offerings

Product road map and NSM integration

We can organise a deep dive for you.





Q&A



Complete Your Online Session Evaluation

Give us your feedback and receive a Cisco Live 2013 Polo Shirt!

Complete your Overall Event Survey and 5 Session Evaluations.

- Directly from your mobile device on the Cisco Live Mobile App
- By visiting the Cisco Live Mobile Site www.ciscoliveaustralia.com/mobile
- Visit any Cisco Live Internet Station located throughout the venue

Polo Shirts can be collected in the World of Solutions on Friday 8 March 12:00pm-2:00pm





Don't forget to activate your Cisco Live 365 account for access to all session material,

communities, and on-demand and live activities throughout the year. Log into your Cisco Live portal and click the "Enter Cisco Live 365" button.

www.ciscoliveaustralia.com/portal/login.ww

