

BLOX FEST

Infoblox 

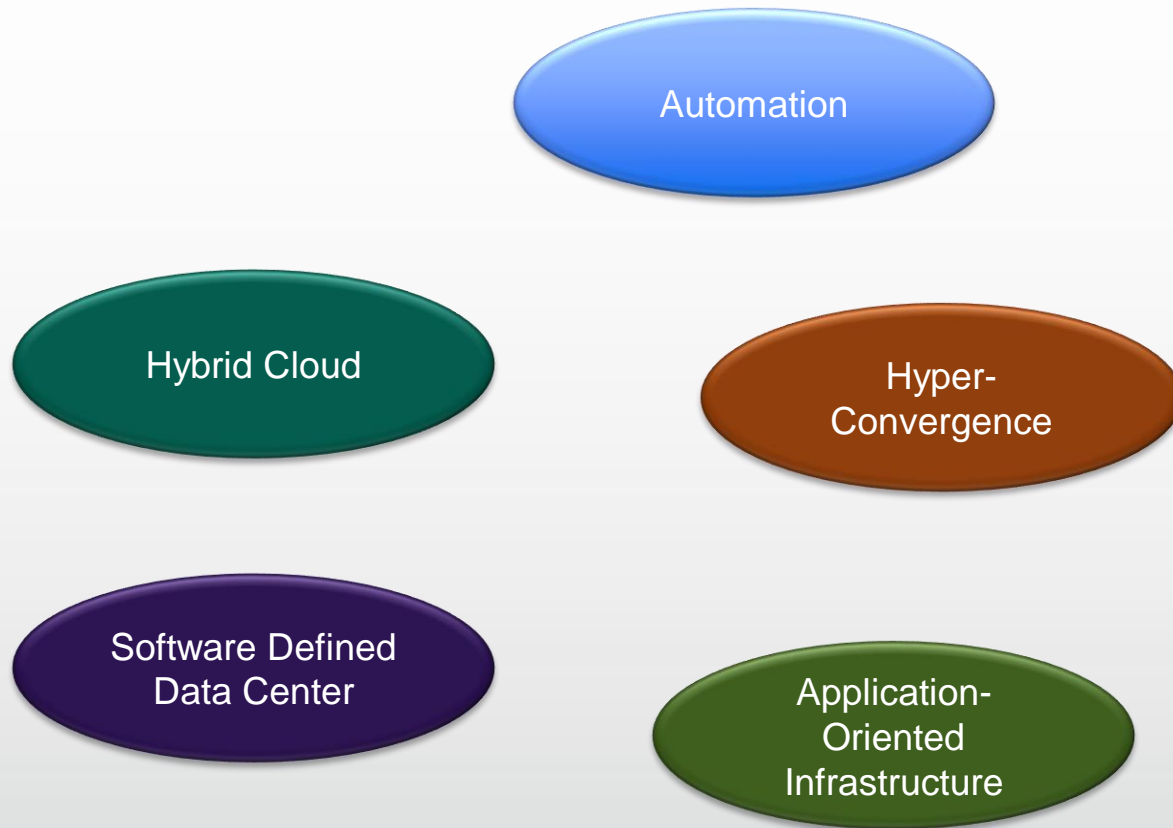
Hybrid Cloud

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Next Generation Data Centers: Technology Trends



Why these trends?

Need for greater agility

- Serve changing business needs
- Need flexible infrastructure
- Expand as the business grows

Reduce operating costs

- No dedicated physical infrastructure
- Don't want to be in the IT business
- Reduce manual work

Control infrastructure

- Empower lines of businesses
- Complete visibility into infrastructure
- Greater security, audit, compliance controls



Challenges with Next Generation Data Centers

Manual Paradigms



Manual processes don't work for NextGen DCs

- Too many tickets between server & network teams
- Lack of troubleshooting tools
- Slow IT execution times

Multi-Cloud



Limited support for multi-vendor hybrid clouds

- Multiple management portals
- No consistent policies
- Any platform change disrupts implementation/processes

Security/Compliance



New security/compliance challenges with shift to cloud

- No correlated infrastructure view for entire cloud
- Lack of auditing capabilities
- Requires cross-cloud expertise



Infoblox Solutions for NGDC

Enabling the Promise of NGDC

Deployment Options: 1) Physical Appliances, 2) Virtual Appliances (ESXi, Hyper-V, Xen, KVM), 3) Public Cloud (AWS)

DDI Automation



Policy-based automation of DNS, DHCP, IPAM services for virtual servers

Open RESTful interfaces for customization

Consistency



Single management interface for multi-cloud solutions

Private Cloud: VMware, OpenStack, Microsoft
Public Cloud: Amazon

Visibility



Discovery of VMs, networks for multi-cloud platforms

Auditing, reporting across clouds for DHCP leases, DNS records, IP addresses



Cloud Solution – Technology Integrations



Infoblox NGDC Solution Components

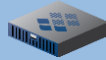
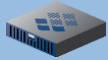
Cloud Platform Appliances

(virtual)

CP-V800

CP-V1400

CP-V2200



- DDI grid member for higher API scale
- Delegation of networks/zones management to LOBs

Cloud Network Automation

(software)



- Consolidated view of your Hybrid Cloud resources
- Automate policy based actions on discovered data

Infoblox Adapters

(software)



openstack



- Infoblox supported adapters
- Automate DNS and IP provisioning for Hybrid Cloud

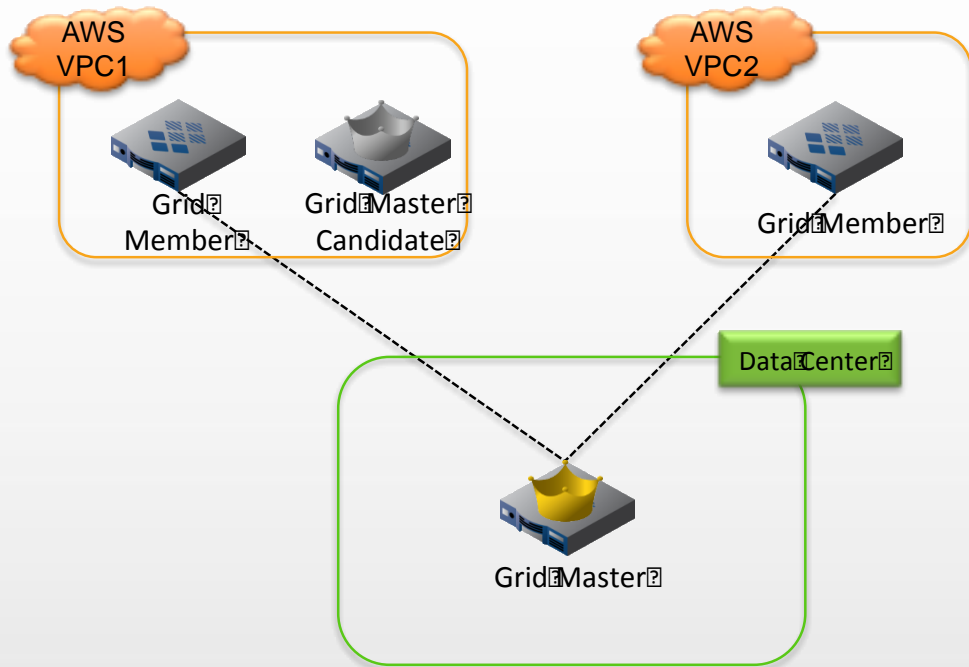


SpotLight: Deployment Scenarios

#	# AWS Regions and/or Availability Zones	Data Center (On-premise/Private Cloud)	Where is Orchestrator?
1	1 or many	DC available	On-prem
2	1 or many	No DC available (all enterprise infrastructure is in AWS)	AWS
3	1 or many	DC available	On-prem and in AWS

Hybrid Grid serving DNS

Deployment Scenario



Grid members in AWS to serve DNS

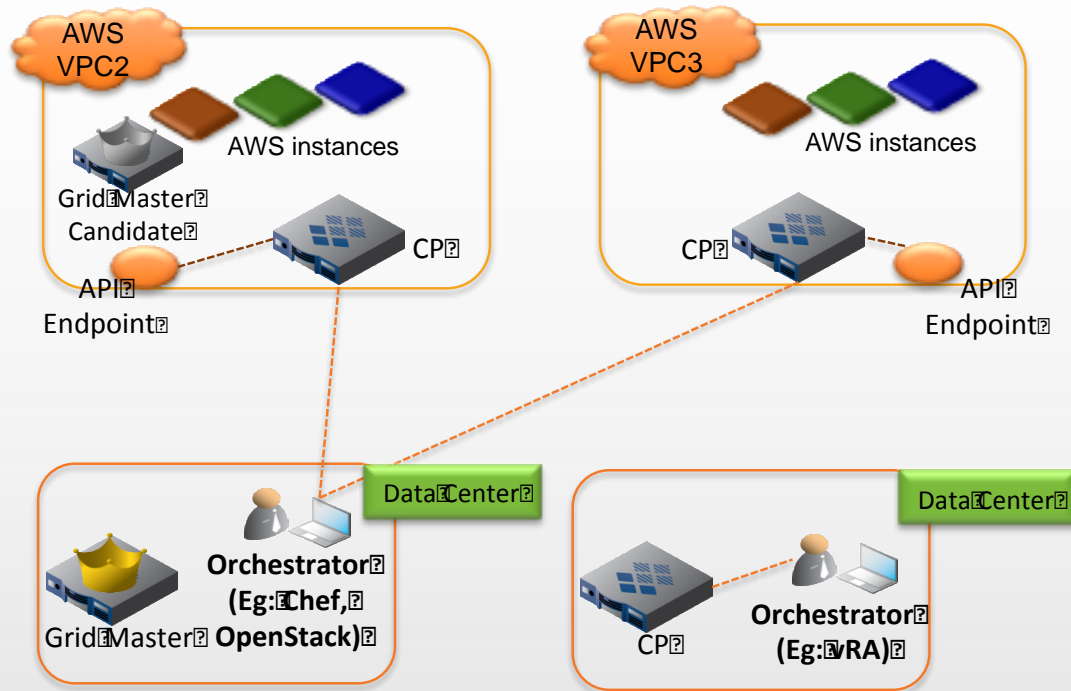
Single grid across on-prem DC and AWS

GMC in AWS for redundancy and DR

Grid members serving DNS

Hybrid Grid for Scalability and Automation

Deployment Scenario



Single grid across multiple DC and AWS Regions

CPA grid members allow horizontal API scaling

CPA grid members for redundancy across Regions

CPA grid members serve APIs locally in AWS Region and DCs



Q&A

Thank You



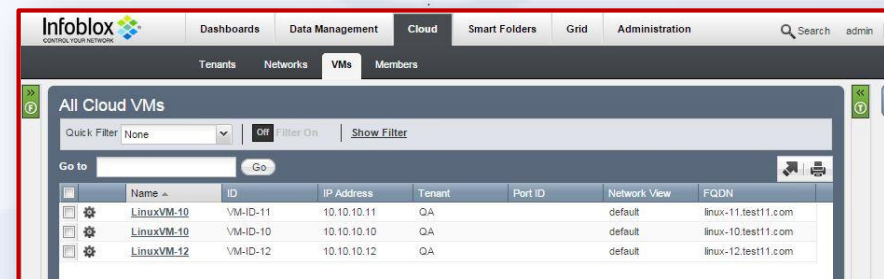
Multi-Cloud Architecture

Grid extends to hybrid cloud
Single management interface
Highly available with disaster recovery

Tenant, VMs, network, VPC
views for hybrid cloud
Discovery, audit, reports

Automated DDI for VMs
Consistent addresses
Security/compliance

Policy based IP, network
assignment using workflows
Consistent DNS names



The image shows a screenshot of the Infoblox management interface. At the top, there are tabs for Dashboards, Data Management, Cloud, Smart Folders, Grid, and Administration. Below these, there are sub-tabs for Tenants, Networks, VMs, and Members. The main content area is titled 'All Cloud VMs' and includes a search bar and a table of VMs. The table has columns for Name, ID, IP Address, Tenant, Port ID, Network View, and FQDN. There are three rows of VMs listed.

	Name	ID	IP Address	Tenant	Port ID	Network View	FQDN
<input type="checkbox"/>	LinuxVM-10	VM-ID-11	10.10.10.11	QA		default	linux-11.test11.com
<input type="checkbox"/>	LinuxVM-10	VM-ID-10	10.10.10.10	QA		default	linux-10.test11.com
<input type="checkbox"/>	LinuxVM-12	VM-ID-12	10.10.10.12	QA		default	linux-12.test11.com

