

Концепция программно определяемого ЦОД

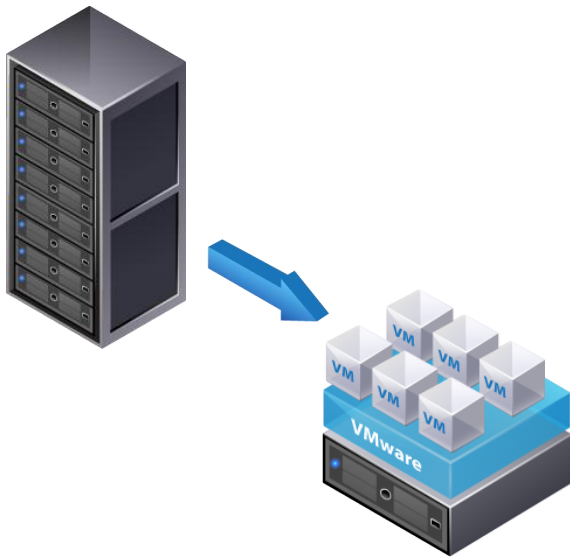
Александр Купчинецкий

Консультант по решениям

3 июля 2013 г.

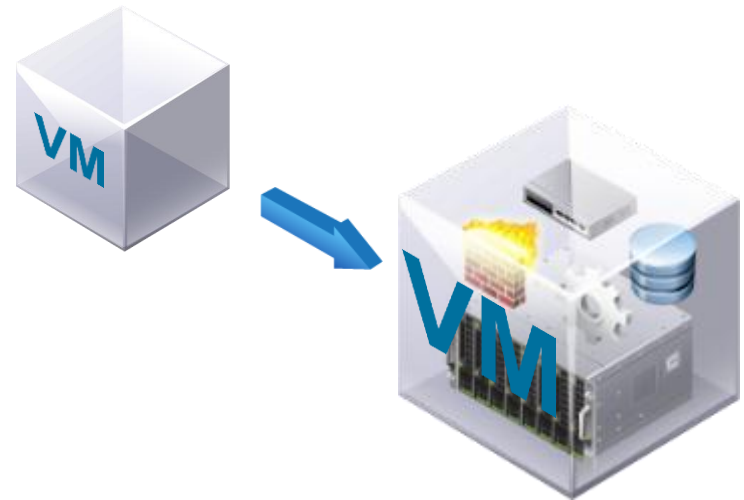
VMware's Next Big Thing

THEN



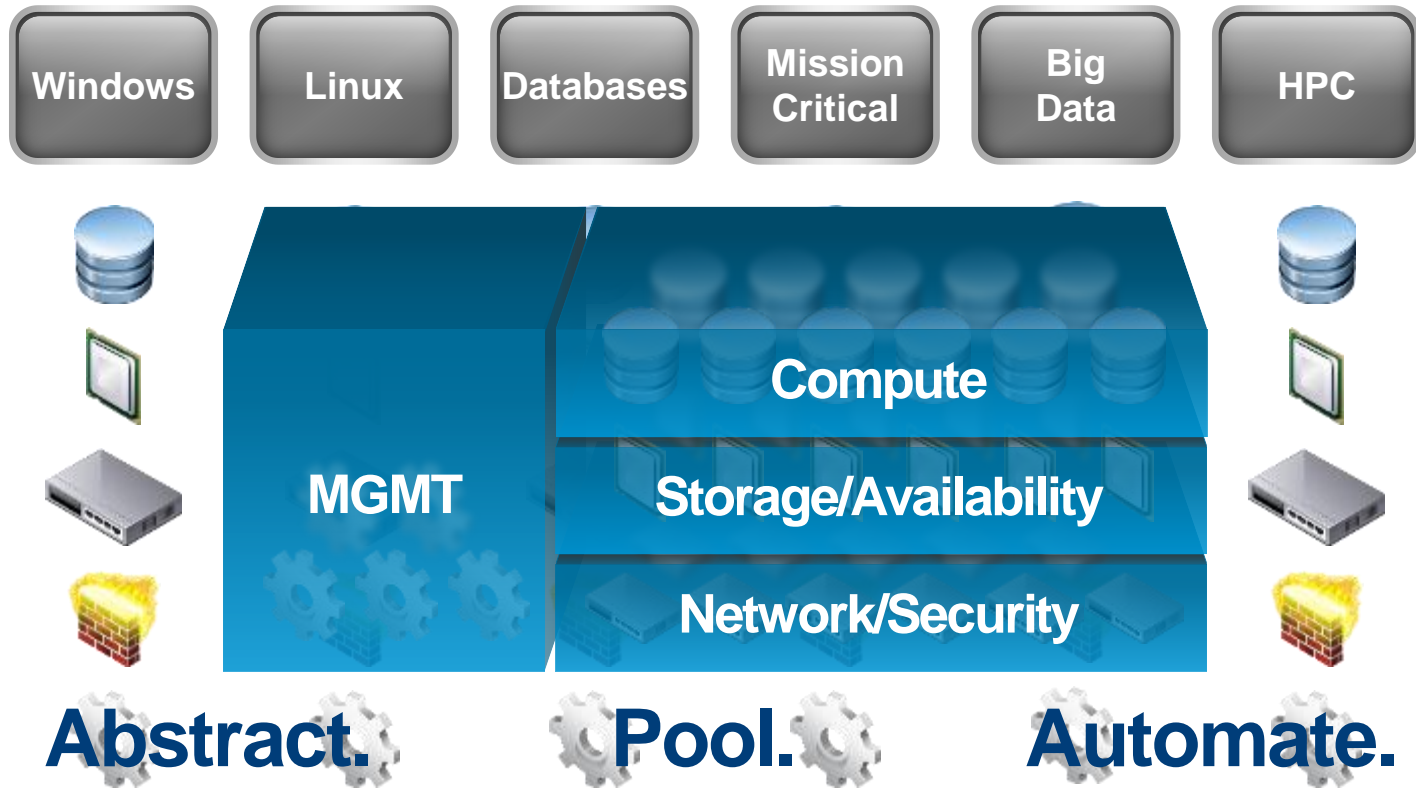
**Server
Virtualization**

NOW



**Software-defined
Datacenter**

Программно определяемый ЦОД

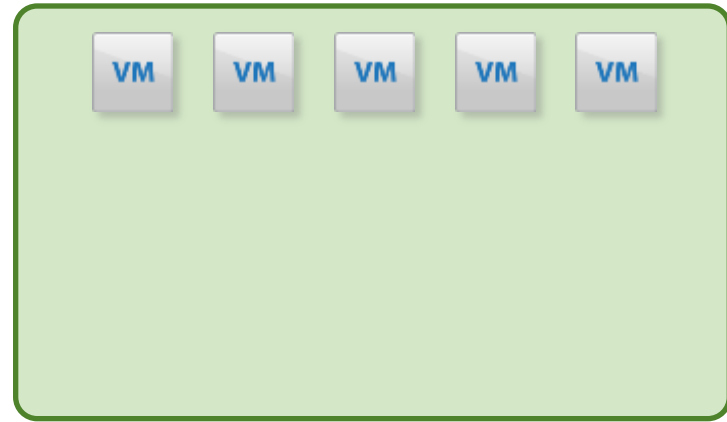


Программно определяемый ЦОД

Software Defined Data Center 1



Software Defined Data Center 2



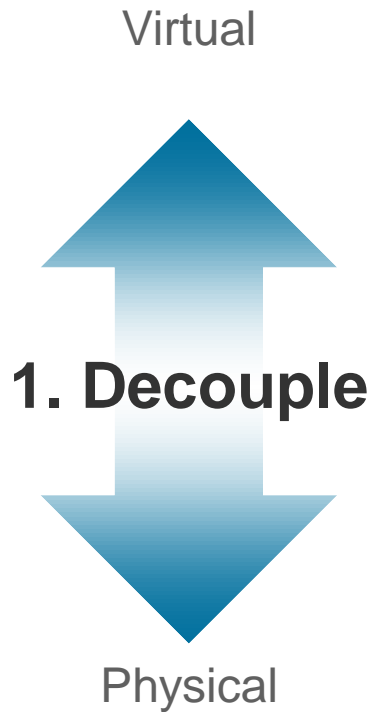
Infrastructure Abstraction Layer



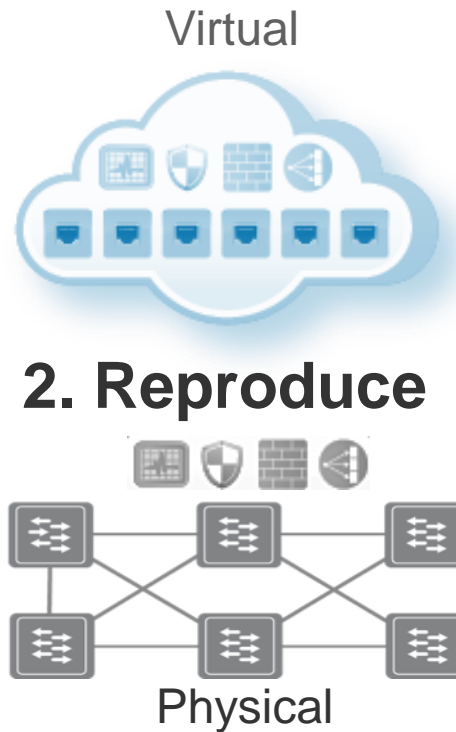
Physical Infrastructure



Требования к сетевой инфраструктуре



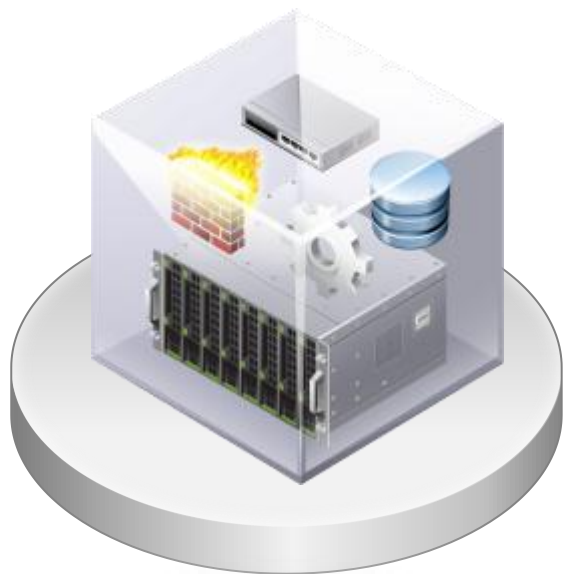
Hardware independence



No change to network from end host perspective



Operational benefits of virtualization



Software-Defined Datacenter

All infrastructure is virtualized and delivered as a service, and the control of this datacenter is entirely automated by software.

Standardized. Holistic. Adaptive. Automated. Resilient.

Как построить программно определяемый ЦОД?

vCloud Suite

Cloud Management

Chargeback

vCenter Operations Management Suite

vCloud Automation Center
Application Director

Cloud Infrastructure

vCloud Director
vCloud Connector

vCloud Networking and
Security

Site Recovery Manager

vSphere

vCloud Service Providers



Other Service Providers



Hypervisors



Hardware



Развертывание сервисов



~94% of IT request volume can be submitted via self-service from a standardized self-service catalog; 7% volume is server deployment

Общие сведения о vCloud Automation Center

Self Service Experience

- Intuitive, consumerized and customizable Cloud portal

User/Organizational Awareness

- Provides specific and unique business context for each user's request

Multi-vendor Orchestration

- Coordinates multiple vendor's technologies enabling best of breed solution leveraging existing tools

Automation

- Built-in automation provisions virtual, physical and cloud

Dynamic Cloud Interface

- Dynamically generated RESTful API provides complete programmatic access and control

Cloud Service Costing

- Cost allocation and charge/show-back across infrastructure, storage, business unit, more...

Intelligent Resource Management

- Discovers and manages existing environment and provides resource efficiency across entire resource lifecycle

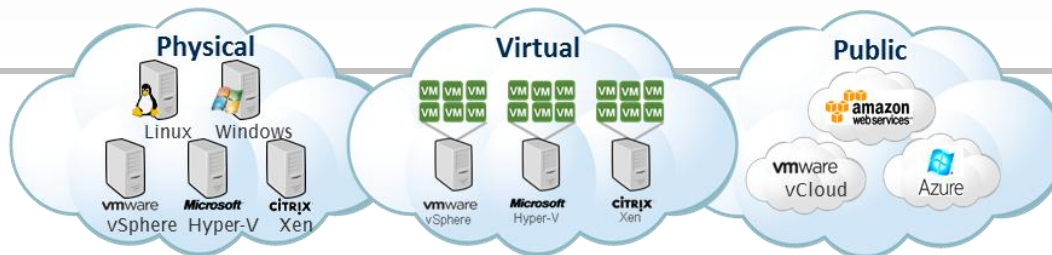
EXTENSIBILITY

DESIGN CENTER

Admin level ability to graphically adapt process to environment

CLOUD DEVELOPMENT KIT (OPTIONAL)

Developer tools to extend platform to new use cases



vCloud Automation Center UI



vCloud Automation Center







My Resources ▾

New Request



Welcome DEMO\devuser

New Request

Blueprint ▲	Description ▼	Group ▼	Daily Cost ▼
 Apache Tomcat (vCloud vApp)	Apache Tomcat Server vApp on vCloud	Development	\$1.90
 Development Web Farm	Web farm for 2013 release development (Multi-Machine Service)	Development	\$10.92
 Physical Linux Server	Physical rackmount server with SUSE Linux installed.	Development	\$5.64
 Windows Server 2008 R2 (EC2)	Windows Server 2008 R2 (Amazon EC2)	Development	\$3.36

◀ ◁ 1 ▷ ▶ ▶▶ 10 items per page 1 - 4 of 4 items ↻

Help

This page allows you to request a new machine from a list of blueprints made available to you by an authorized body.

Certain blueprints require manual authorization from a qualified authority and this may delay provisioning of the machine. If your machine is not created quickly please contact your appropriate authority to enquire on the delay.

vCloud Automation Center UI



vCloud Automation Center



My Resources ▾






New Request



Welcome DEMO\devuser









My Machines

Show machines by type:

Machine name ▲	Message	Status
 DEVM10034	multimachine	On
<div style="border: 1px solid #ccc; padding: 5px;"><ul style="list-style-type: none"> Application Server x 1 SQL Server 2008 x 1 IIS7 Web Server x 1<p style="text-align: right;">View machines...</p></div>		
 DEVM10038		On

10 items per page 1 - 2 of 2 items

Actions

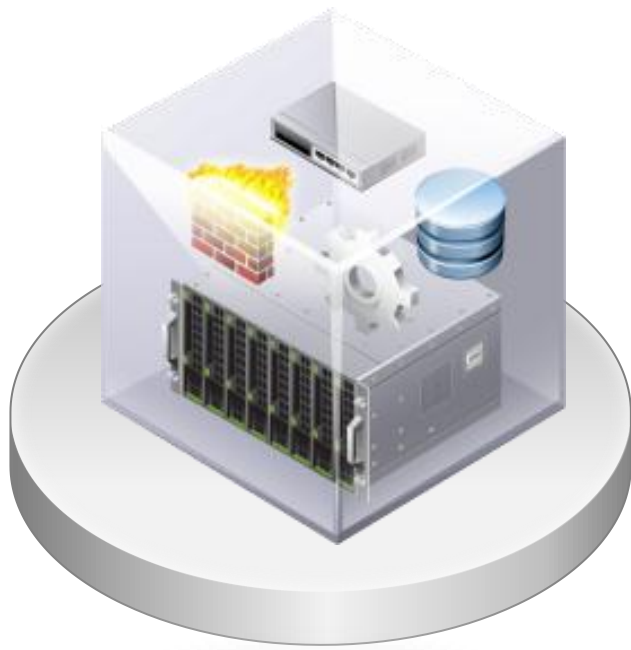
-  Edit
-  Add Components
-  Power Cycle
-  Reboot
-  Change Lease
-  Destroy
-  Power Off
-  Shut Down

Help

Спасибо за внимание!

Александр Купчинецкий

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Software-defined Datacenter:

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Спасибо за внимание!

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