

# Overlay Virtual Networks Software Defined Networking

### What Really Matters Is Your Business



# The Do's and Don'ts of Cloud Building



#### NIL

#### Who is Ivan Pepelnjak (@ioshints)

- Networking engineer since 1985
- Chief Technology Advisor
  @ NIL Data Communications
- Consultant, blogger, book and webinar author
- Currently teaching "Scalable Web Application Design" at University of Ljubljana

Focus:

- Large-scale data centers,
- Network virtualization
- Scalable designs and architectures



#### NIL

#### Why Is Ivan Talking About Clouds?

#### **NIL Data Communications**

- System integrator since 1989
- Building Internet and training ISPs since 1993
- Offering cloud services since 2001
- Cisco Cloud Partner (Cloud Builder)
- Cisco's Innovation Award for our learning services

#### Flip-IT (IT-as-a-Service)

- In production since July 2009
- Deployments in dozens of countries worldwide

### Building a Cloud in Three Easy Steps



### Step 1: Reach the Executive Decision

### Step 2: Delegate to Engineering









### What Can You Sell?





#### Infrastructure-as-a-Service



Software-as-a-Service

Platform-as-a-Service

Infrastructure-as-a-Service



Software-as-a-Service

Platform-as-a-Service

Infrastructure-as-a-Service

Storage-aaS

Backup-aaS



**IT-as-a-Service** 

Software-as-a-Service

Platform-as-a-Service

Infrastructure-as-a-Service

Storage-aaS

Backup-aaS



Service

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### What Will Your Customers Buy?



### How Are You Different?







### **Build or Buy?**



### Clouds

are all about

# On-Demand Services and

#### Orchestration



#### The Path So Far

- Internal resourcing
- Market research
- Service definition (focus on added value)
- Build or Buy?
- Find the orchestration system

### And Now We Can Discuss Technologies

Be Vendor Agnostic



#### Use Dedicated Infrastructure



#### Standardize



### Keep It Simple



#### **Be Conservative**



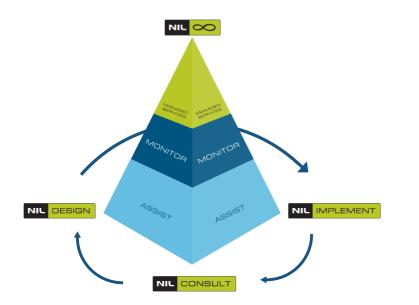
### When In Doubt, Focus on Business Needs



## Available Now usually beats Perfect



#### **Partner!**





#### The Path Will Be Long

### **START NOW**



#### **Questions**?

#### Send them to ip@ipSpace.net or @ioshints

JOPUO