

# Overlay Virtual Networks Software Defined Networking

## What Really Matters Is Your Business



## The Do's and Don'ts 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

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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** 

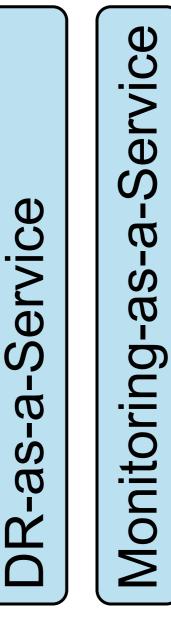
Software-as-a-Service

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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**



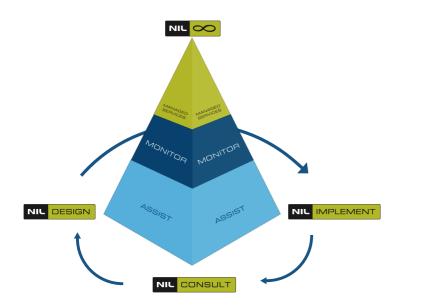
### When In Doubt, Focus on Business Needs



# Available Now usually beats Perfect



### Partner!





#### The Path Will Be Long

### **START NOW**



#### Questions?

#### Send them to ip@nil.com or @ioshints

JOPUO