

# <sup>6</sup>DisyCS

Developing your distributed systems and cloud services

Migrating to the cloud: is it a good  
idea

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# Why should I care?

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- ▶ Is cloud computing Strategic ?
- ▶ Gartner consider cloud computing one of 2013 top 10 trends
- ▶ Cloud computing offers better products
- ▶ Better processes
- ▶ Better costumer relationship
- ▶ Cloud computing enable innovation
- ▶ **Yes Cloud computing is strategic**

# Use cases

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- ▶ SAAS: why you want to consider it and what you have to pay attention to when migrating to SAAS
- ▶ Public cloud IAAS: why you want to consider it and what you have to pay attention to when migrating to Public IAAS
- ▶ Private cloud IAAS: why you want to consider it and what you have to pay attention to when migrating to Public IAAS

# Why SAAS?

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- ▶ Unpredictable number of users
- ▶ Great for startups and new applications(reach non customers, chipper ...)
- ▶ Works great with mobile applications(smartphones and tablets)
- ▶ Need high computational resources
- ▶ Offers “pay for what you use” business model
- ▶ 0 Setup time for your clients

# What to consider when migrating to the SAAS?

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- ▶ Understand the cloud and most importantly understand the IAAS
- ▶ Understand cloud application architecture and design issues (Performance, Identity management, Data hosting and Extensibility...)
- ▶ Consider REST for web services
- ▶ Understand your application needs and optimize it
- ▶ Consider configuration and customization(plugins)
- ▶ Consider rebuilding your application.

# Why Public cloud IAAS

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- ▶ Need different big machines
- ▶ Need to share work with others
- ▶ Need big resources on the fly
- ▶ Test and development in the cloud

# What to consider when migrating to a public cloud

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- ▶ Choose your provider wisely
- ▶ Never fully trust the provider after all your application is out there running somewhere
- ▶ Have a plan B
- ▶ Keep your very sensitive data in your house

# Why Private cloud IAAS

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- ▶ Already having a very good datacenter
- ▶ Want the elasticity, the customization and scalability of the cloud but you want to keep your work inside.
- ▶ Make your datacenter more efficient and less power consuming.
- ▶ Create a dynamic IT environment for your enterprise



# What to consider when migrating to a private cloud IAAS

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- ▶ Make sure that your enterprise is IT mature.
- ▶ Change the way you think about resources
- ▶ Make sure that the people within your organization understand cloud computing and understand the benefits
- ▶ Be ready for huge resource management headache
- ▶ Consider an advance monitoring and resources sharing system

# Final Advice

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- ▶ Don't take one path, be creative, produce the best system that goes with your organization needs.
- ▶ If you have any question just send it to [njimmahdi@disyics.com](mailto:njimmahdi@disyics.com)
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