



Introduction to Lab 1

Local Dev + Cloud Deployment

Mikael Svahnberg¹

¹Mikael.Svahnberg@bth.se
School of Computing
Blekinge Institute of Technology

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Goals of Lab 1

From course syllabus:

Kunskap och Förståelse:

- Kunna översiktligt presentera konceptet cloud computing och olika cloud-tjänster
- Kunna ingående förklara de grundläggande teknologier som används i cloud-system

Färdighet och förmåga

- Kunna driftsätta, testa, och övervaka en cloud-applikation
- Kunna använda sig av en existerande hypervisor
- Kunna starta virtuella maskiner på en existerande hypervisor

Overview



Developer



Cloud Application



Users



Overview



Developer



Cloud Application



Users

Development options:

-
- Clone Cloud Environment
- Local copy of the environment
- Local virtualised environment



Overview



Developer



Cloud Application



Users

Development options:

- Develop on Production Servers
- Clone Cloud Environment
- Local copy of the environment
- Local virtualised environment



Overview



Developer



Cloud Application



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Development options:

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Cloud Application



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Development options:

- ~~Develop on Production Servers~~ NO
- Clone Cloud Environment Expensive
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Development options:

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- Local copy of the environment Expensive
- Local virtualised environment Cheap



Overview



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Cloud Application



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Development options:

- ~~Develop on Production Servers~~ NO
- Clone Cloud Environment Expensive
- Local copy of the environment Expensive
- Local virtualised environment Cheap Testable?



Overview



Developer



Cloud Application



Users

Challenges:

- Keep Local Development environment and Cloud deployment environments similar
- Test environment \neq Development environment
- A single way to configure all environments (and to store different configurations)



Overview



Developer



Cloud Application



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Overview



Developer



Cloud Application

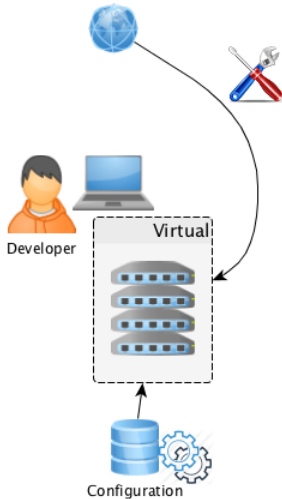


Users

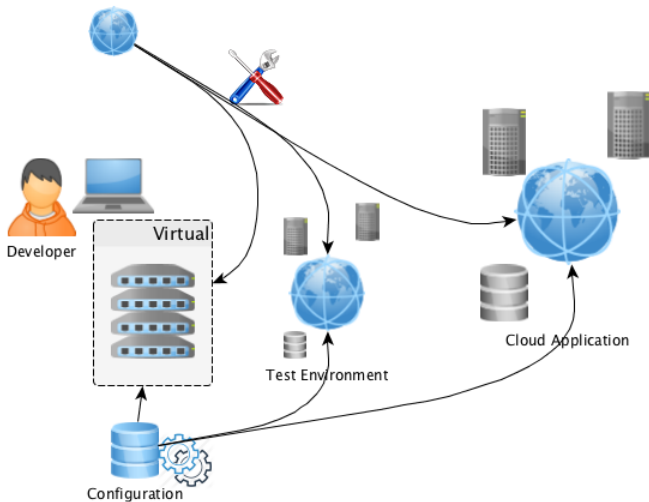
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In this lab...



In this lab...





In this lab...



Virtualisation



In this lab...



Virtualisation



Provisioning





In this lab...



Virtualisation



Provisioning



Multi-Machine



In this lab...



Virtualisation



Provisioning



Multi-Machine



Deployment