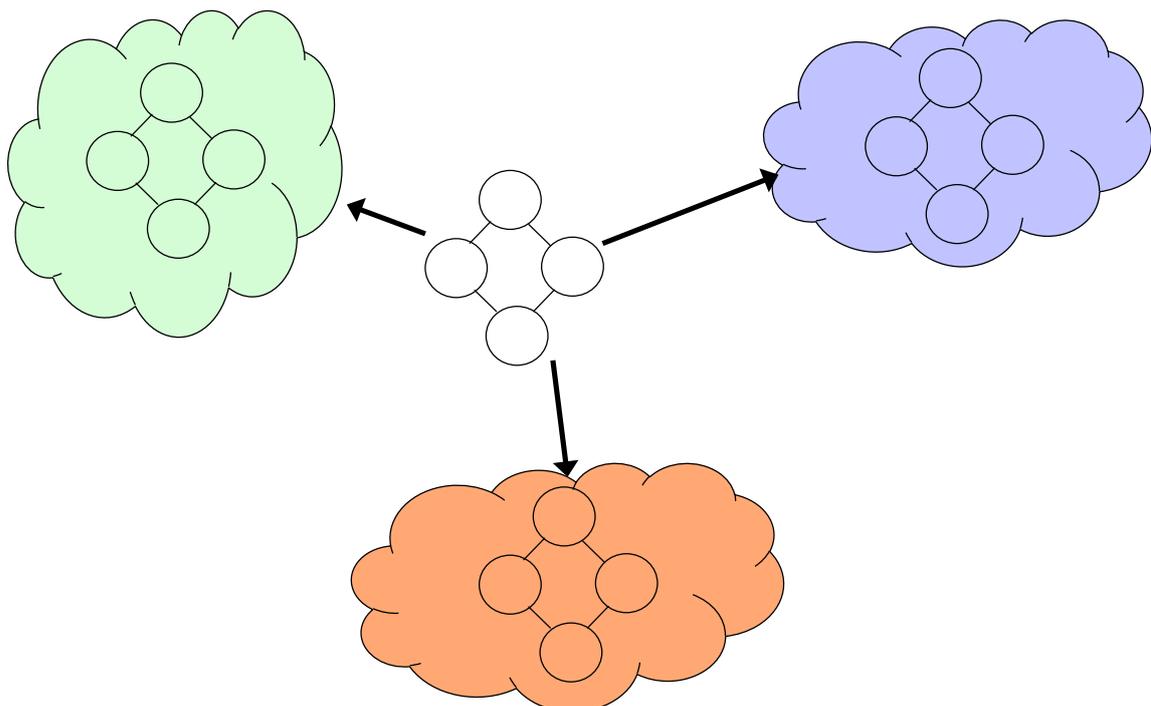
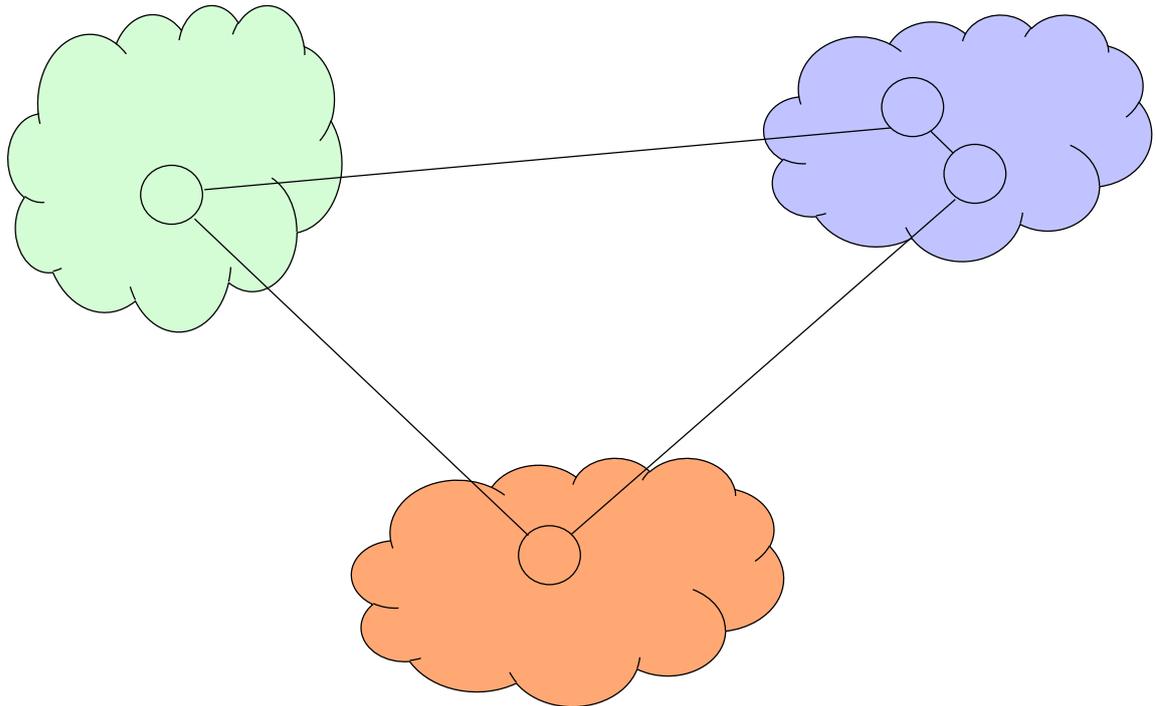


Multi-Cloud Portability & Interoperability

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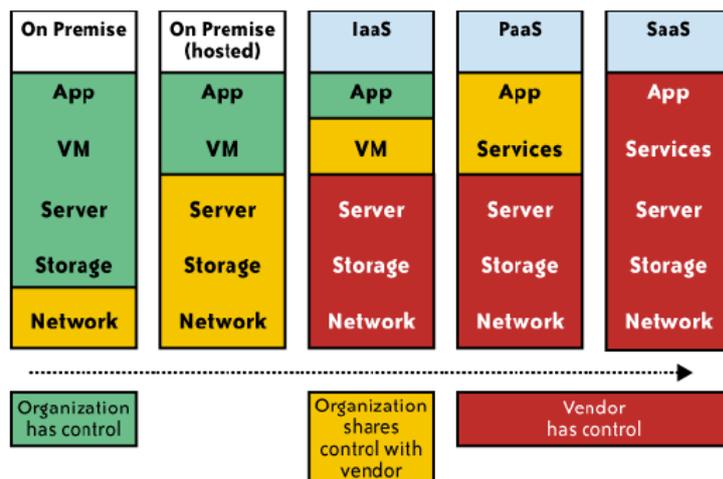
- High availability
- Cost
- Performance
- Avoid lock-in

4

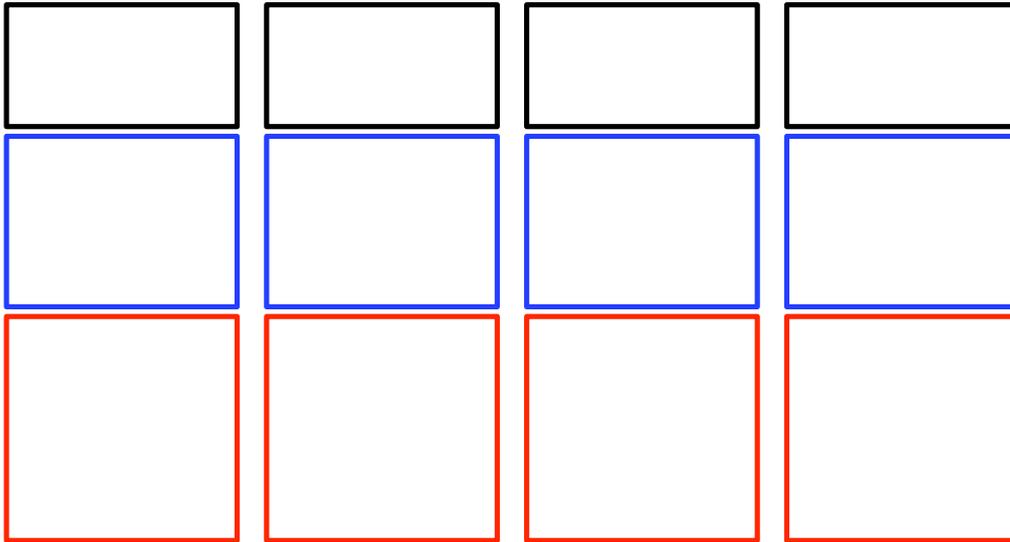
- High availability
- Cost
- Performance
- Privacy
- Hybrid
- One size does not fit all

5

- Data
- Applications
- Platforms
- infrastructures



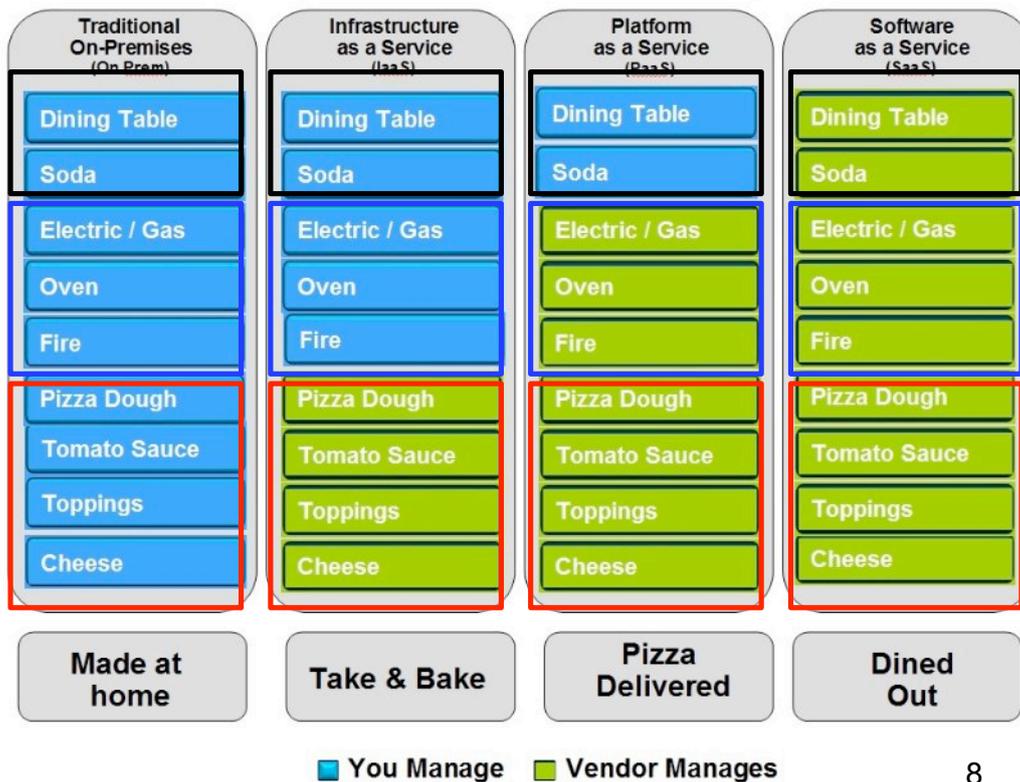
6



Do not forget data !

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Pizza as a Service



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- Data portability enables re-use of data across different applications.
- The structure of the data is often designed to fit a particular form of application processing
- A significant transformation is needed to produce data that can be handled by a different product.
- Data portability problem exists in traditional environments. But ...
- Cloud introduces no new technical problems, but cloud can make the old technical problems much more serious.

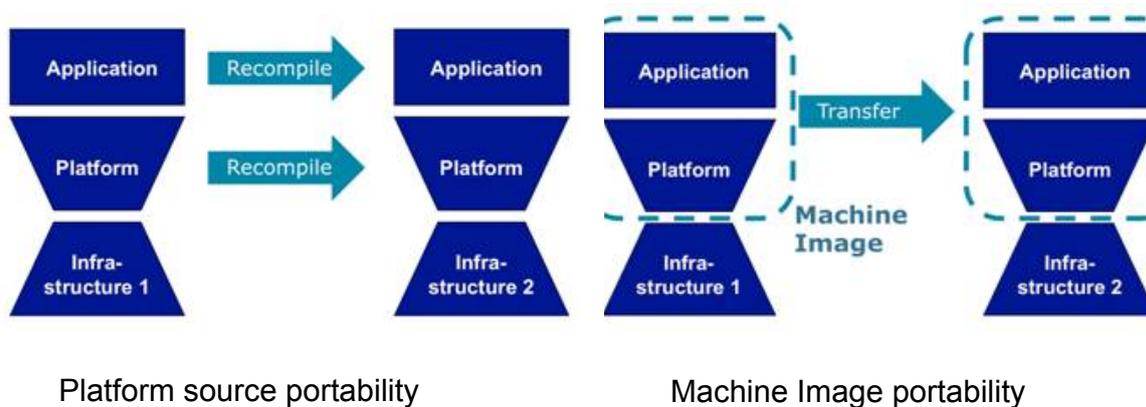
http://www.opengroup.org/cloud/cloud/cloud_iop/cloud_port.htm

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- Application portability enables the re-use of application across cloud and traditional computing platforms.
- Suppose that an enterprise has an application built on a particular cloud and wishes to move it to another cloud. How easy will this be?
- Example : portability between development and operational environments
- Application portability brings development and operations closer together, and indeed increasingly leads to the two being integrated as **devops**

http://www.opengroup.org/cloud/cloud/cloud_iop/cloud_port.htm

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http://www.opengroup.org/cloud/cloud/cloud_iop/cloud_port.htm

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- Application interoperability is interoperability between application components deployed as SaaS
- Data synchronization is a particular issue when components in different clouds or internal resources work together.
- Application interoperability allows hybrid cloud

http://www.opengroup.org/cloud/cloud/cloud_iop/cloud_port.htm

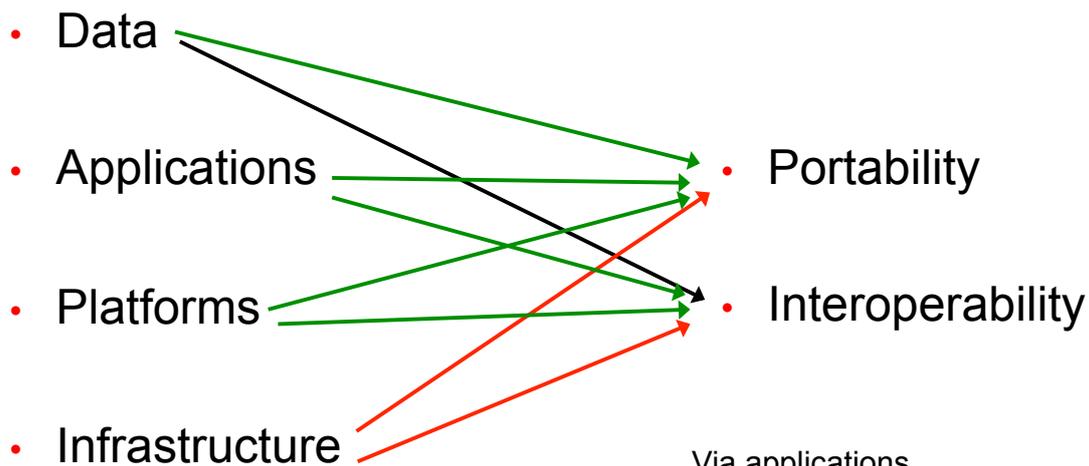
12

- Platform interoperability is interoperability between platform components
- Platform interoperability requires standard protocols for service discovery and information exchange
- Application interoperability cannot be achieved without platform interoperability.

http://www.opengroup.org/cloud/cloud/cloud_iop/cloud_port.htm

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To summarize



Via applications

Hardware/Virtualization

Exists in traditional environments,
but the problem could be more
serious within the cloud

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- UCI : Unified Cloud Interface
- OCCI : Open Cloud Computing Interface  **Occi**
Open Cloud Computing Interface
- CIMI (Cloud Infrastructure Management Interface)

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