Drupal in the Cloud

Seminar on Distributed Systems

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Agenda for Drupal in the Cloud

- **Questions**: motivation for the paper

- **Introduction**: Drupal & the Cloud

- **Approach** taken for writing the paper

- **Main part**: Drupal Cloud technologies

- **Additions**: Open Source & Community aspects

Questions for Drupal in the Cloud

- What is Cloud computing and how does it relate to Drupal?

- Which technologies in the Drupal ecosystem exist related to Cloud computing?

- On which layers do they operate? (SaaS, Paas, IaaS)

- What are the pros and cons of applying Cloud technologies when working with Drupal?

Introduction for Drupal in the Cloud

- **Drupal**
  - Content Management System & Framework
  - Open Source – GPL
  - Community

Come for the software, stay for the community
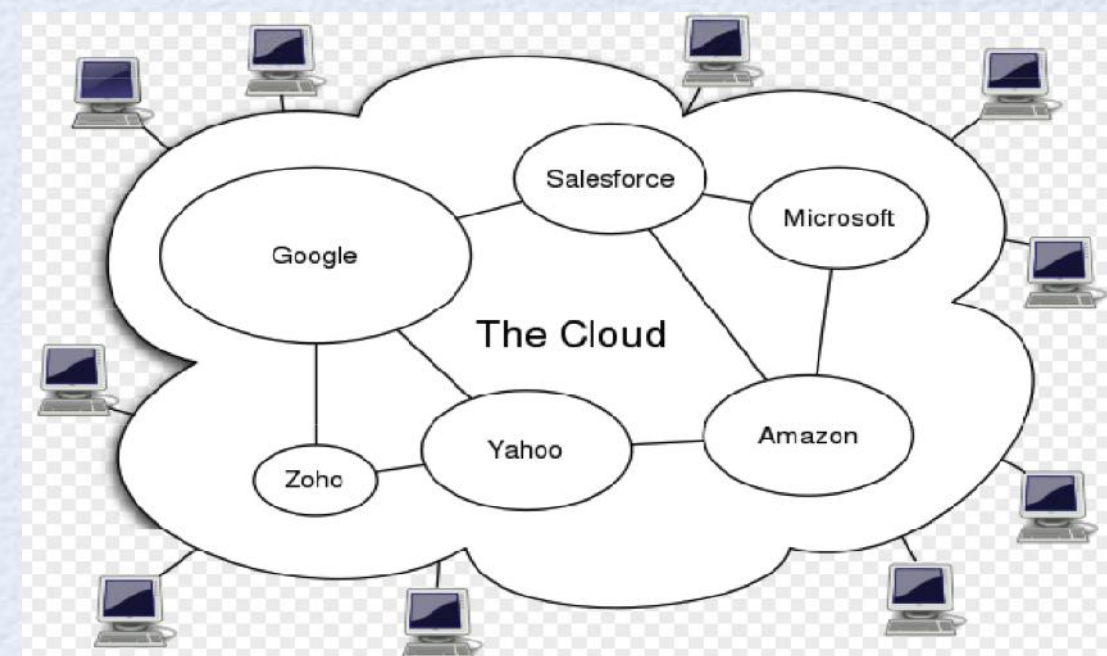

drupalaustria
webseiten mit drupal
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Introduction for Drupal in the Cloud

- **Cloud Computing**

  - "Clouds are a large pool of easily usable and accessible virtualized resources (such as hardware, development platforms and/or services)" (Vaquero et al. ,2008)

  - "The Cloud" is something idiots call what the rest of us call "The Internet" (seen on Twitter, 2011)
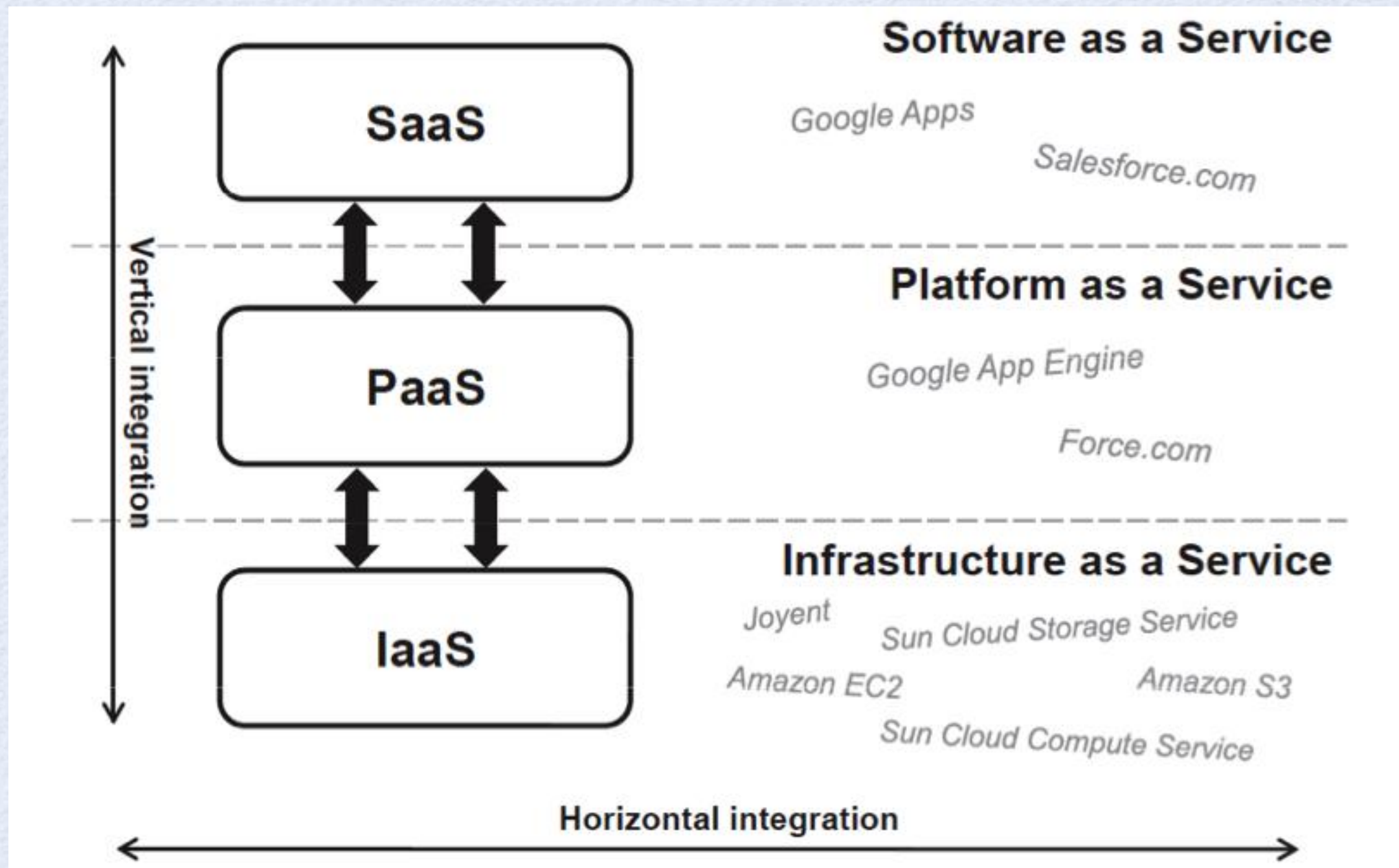
Approach to Drupal in the Cloud

- **Problem**: lack of "official" drupal papers dealing with the topic

- **Solution**: web reserach: blogs & conference presentations

- **Target**: create an index-like overview of drupal-related cloud technologies

Main part: Drupal in the Cloud

- **Cloud Layers**

Main part: Drupal in the Cloud

- **SaaS Cloud Layer: Software as a Service**

  - Drupal Gardens (Acquia)

  - Buzzr (Lullabot)

- Drupal-based through-the-web Website configuration, hosted in the cloud and targeted at site configurators

- Features: wizards, theme builders, ...

Main part: Drupal in the Cloud

- **PaaS Cloud Layer: Platform as a Service**

    - Acquia DevCloud

    - Pantheon

    - Microsoft Azure

- Amazon- & Microsoft-based cloud solutions to supply a professional development cycle

- Features: staging, VCS-integration, ...

Main part: Drupal in the Cloud

- **IaaS Cloud Layer: Infrastructure as a Service**

- Drupal is a platform itself which builds on top of different infrastructures

- option: integrate infrastructure from the cloud, approach taken by on-top layers

  - IaaS module Connector for Amazon EC2, Eucalyptus Cloud, OpenStack, XCP Xen Cloud Platform, libvirt Virtualization API)

Additions: Drupal in the Cloud

- **Open Source aspects**
  - releasing code vs. building unique services
  - featuring the Drupal App Store controversy
- **Technology review**
  - When does it make sense and when not?
  - and of course, the recent AWS failure :)