Code in the cloud for the cloud jfokus.mybluemix.net

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#jfokus #Code4TheCloud



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The plan

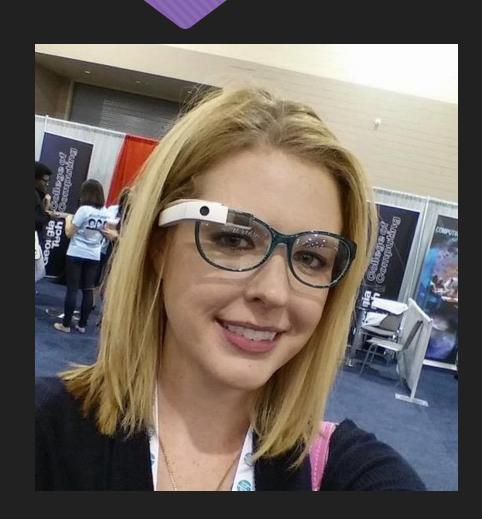
- O The App Revolution & Cloud Computing
- O Platforms as a Service
- Leveraging Services on Platforms as a Service
- O Software as a Service
- O Bonus: DevOps

All about the workbook

- O Learn this!
- O Try this!
- O Tweet this!
- O Get creative
- Additional resources

The App Revolution & Cloud Computing

The app revolution fundamentally changes the way we interact with technology.



App development today is all about speed and choice.



SaaS: Software as a Service PaaS: Platform as a Service laaS: Infrastructure as a Service

SaaS: Software as a Service

PaaS: Platform as a Service

laaS:
SoftLayer, Amazon EC2, Rackspace Managed Infrastructure, VMware, Joyent,
Google Cloud Storage

SaaS: Software as a Service

PaaS:

IBM Bluemix, Amazon Elastic Beanstalk, Google App Engine, Microsoft Azure, webMethods AgileApps Cloud, Rollbase, Cloud Foundry

laas:

SoftLayer, Amazon EC2, Rackspace Managed Infrastructure, VMware, Joyent, Google Cloud Storage

SaaS:
IBM DevOps Services,
Google Apps, Salesforce, Hotmail

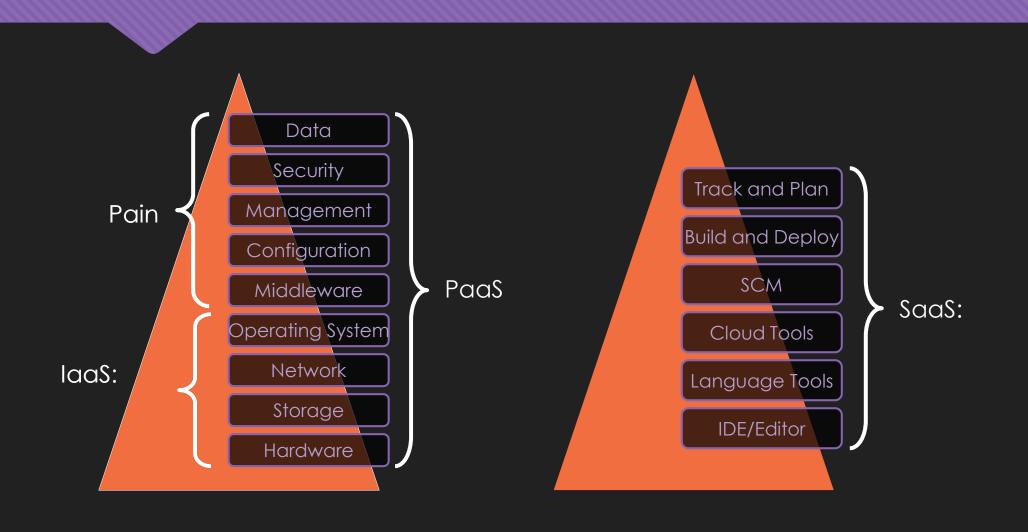
PaaS:

IBM Bluemix, Amazon Elastic Beanstalk, Google App Engine, Microsoft Azure, webMethods AgileApps Cloud, Rollbase, Cloud Foundry

laaS:

SoftLayer, Amazon EC2, Rackspace Managed Infrastructure, VMware, Joyent, Google Cloud Storage

The cloud changes everything for developers!



Enterprises predict they will increase their spending on cloud computing by 42% in 2015

The Computerworld Forecast Study 2015

Try this!

- O Register for Bluemix (PaaS): https://ibm.biz/jfokus-bluemix
- O Register for DevOps Services (SaaS): https://ibm.biz/jfokus-devops

Platforms as a Service

"Platform as a Service (PaaS) is a category of cloud computing services that provides a computing platform and a solution stack as service...In this model, the consumer creates an application or service using tools and/or libraries from the provider."

The all-knowing Wikipedia

Common features & advantages

Common features & advantages

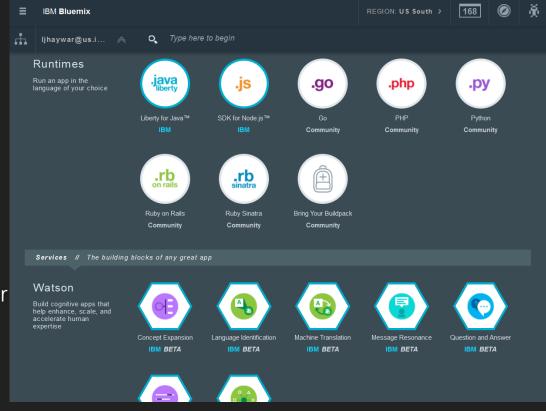
- Focus on your app—not the infrastructure behind it
 - Rapid app development!
- O Dynamically scale your app based on usage
 - Pay for what you use!
- Leverage data storage and services on the platform
- O Code in your favorite programming language
- Deploy in stages (test before going live)

Deploying an app to a PaaS

- O Use command line client and/or user interface
- O Provide instructions
 - O Who?
 - O What?
 - O Where?
 - O When?
 - O Why?

Bluemix

- O Bluemix is an open-standards, cloud-based platform for building, managing, and running applications of all types (web, mobile, big data, new smart devices, and so on).
 - O Run your apps
 - O Use the language of your choice
 - APIs and services
 - Deploy using command line client, Eclipse plugin, or web IDE



Lauren's Lovely Landscapes

Lauren's Lovely Landscapes

Lauren's Lovely Landscapes

Lauren's Lovely Landscapes is a collection of some of her favorite landscapes. If you would like to purchase a print, please e-mail Lauren with the name of the print.

Please check back often to see if we have sales!

Antarctica



Alaska



Australia



Lauren's Lovely Landscapes

Antractica



About this landscape:

Lauren's husband took this spectacular photo when they visited Antarctica in December of 2012. This is one of our hot sellers, so it rarely goes on sale.

Price:

100.00

Deploying Lauren's Lovely Landscapes

```
applications:

    name: LaurensLovelyLandscapes

      buildpack: python buildpack
      memory: 256M
      instances: 1
      host: LaurensLovelyLandscapes-${random-word}
8
      path: .
      command: python wsgi.py
10
```

Try this!

- O Fork Lauren's Lovely Landscapes
- O Deploy it
- O Explore it
- O Update it
- O Redeploy it
- O Take a break

Leveraging Services on Platforms as a Service

Common services you can leverage

Common services you can leverage



Fabulous Price Finder

Fabulous Price Finder v2.0 Fabulous Price Finder Input the item for which you would like to check its price: Item name: Url: Price field id: View Database | Get Prices

Try this!

- O Fork the Fabulous Price Finder
- O Deploy it
- O Add the MongoLab service
- O Redeploy it
- O Try it

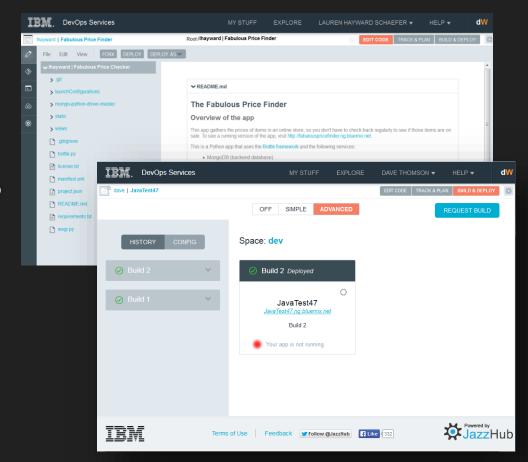
Software as a Service

"Software as a service (SaaS) is a software licensing and delivery model in which software is licensed on a subscription basis and is centrally hosted... SaaS is typically accessed by users using a thin client via a web browser."

The all-knowing Wikipedia

DevOps Services

- O DevOps Services is a DevOps solution in the cloud for building mobile and cloud applications.
 - O Use your favorite tools or the web IDE
 - O Host your code in a Git repo, GitHub repo or Jazz repo
 - Public and private projects
 - Integrated task tracking & agile planning
 - O Auto-deploy to Bluemix



Try this!

- Track your work in user stories and defects
- O Plan your work in sprints
- Implement a text messaging feature
- Deploy your feature and test it
- Push your feature to the repository
- Mark your work as complete

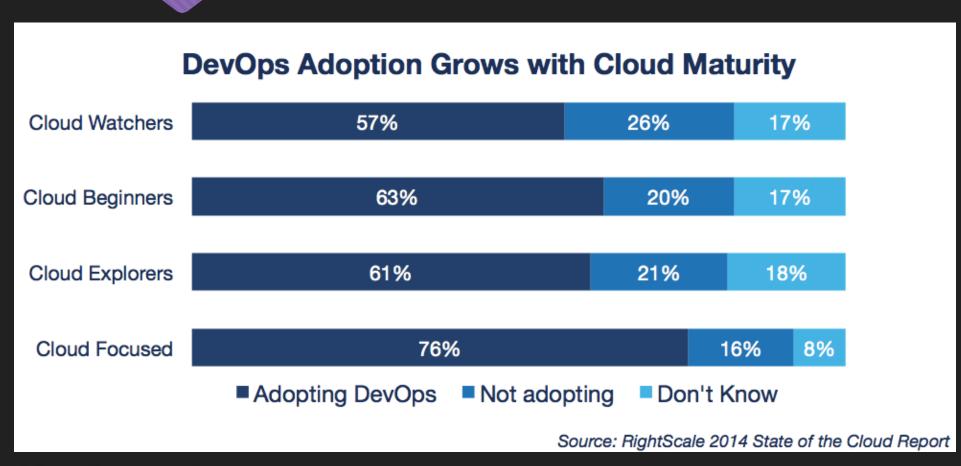
Bonus: DevOps

Utvecklingsverksamheten???

"DevOps (a portmanteau of 'development' and 'operations') is a software development method that stresses communication, collaboration, and integration between software developers and Information Technology (IT) professionals."

The all-knowing Wikipedia

Don't get left behind!

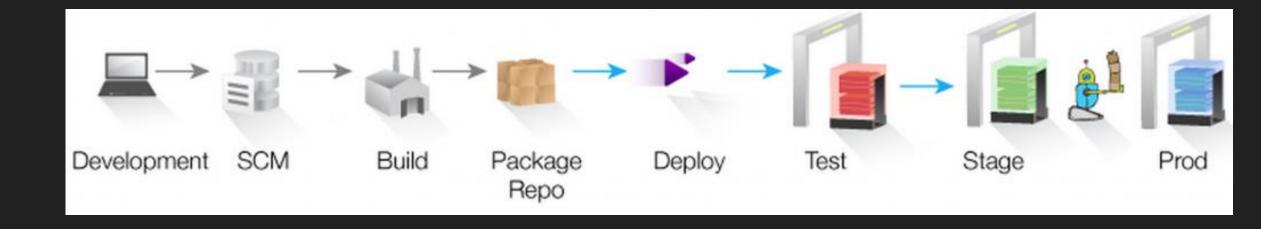


DevOps best practices

DevOps best practices

- O Cross-team collaboration
- Automated testing
- Continuous integration
- Continuous deployment

Continuous delivery pipeline



Try this!

O Configure automatic deployments to development and production environments

That's all for now...

- O To access the resources associated with this presentation...
 - O visit http://jfokus.mybluemix.net/
- O To continue to learn more about Lauren, DevOps Services, and Bluemix, follow
 - O @Lauren_Schaefer
 - O @JazzHub
 - @IBMBluemix
- Presentation tomorrow