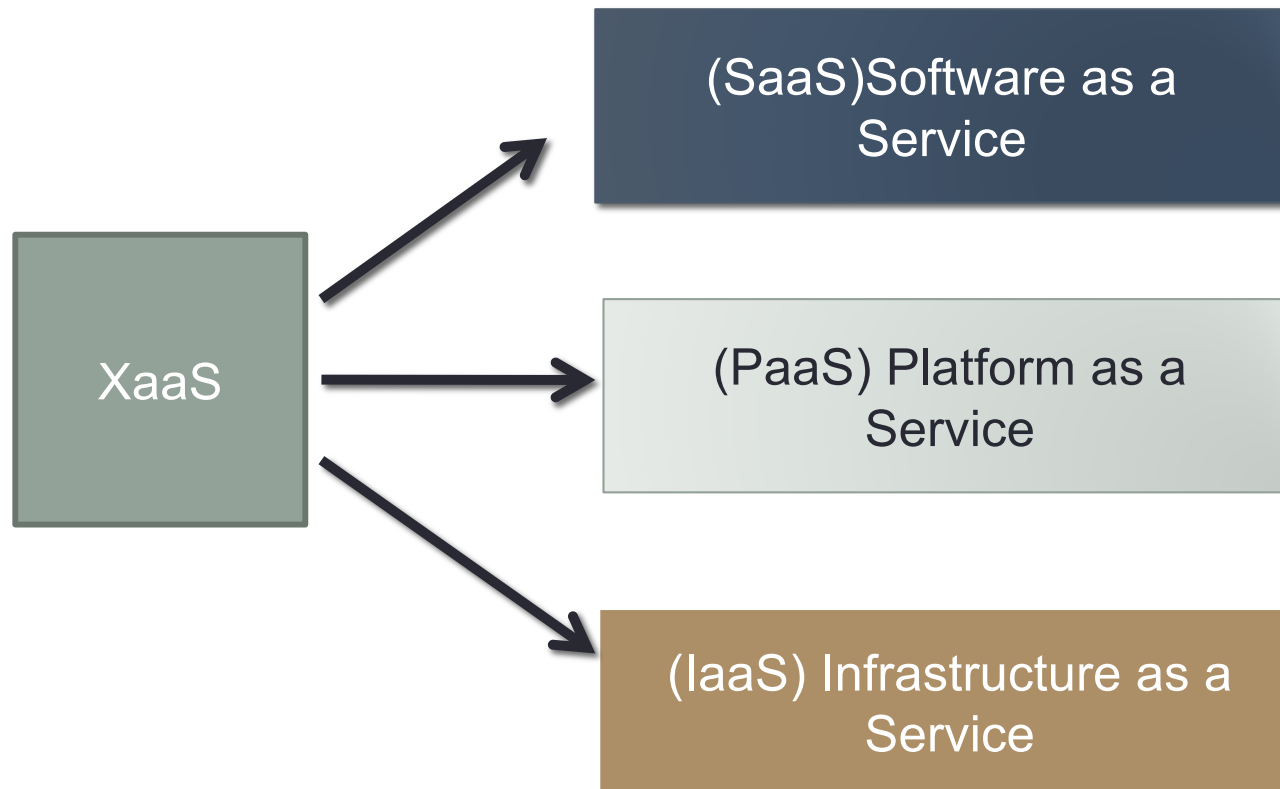




# INTRODUCTION TO PAAS AND SAAS CLOUD COMPUTING

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# Models for Cloud Computing



# Models for cloud computing



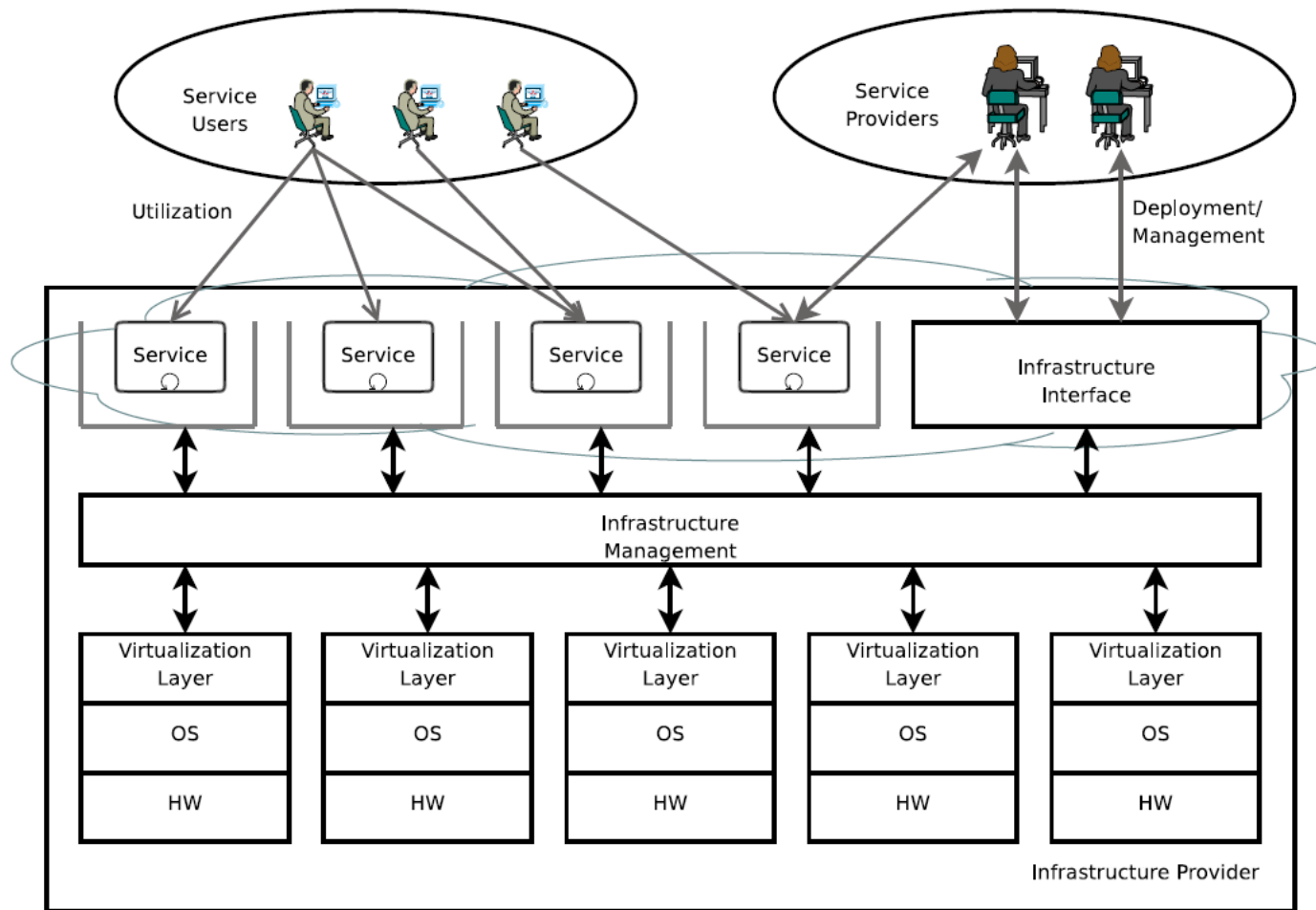
# What CC can provide?

- **Infrastructure** as a service (IaaS)
- **Platform** as a service (PaaS)
- **Software** as a service (SaaS)
- **API** as a service (APIaaS)
- **STorage** as a service (STaaS)
- **X** as a service (XaaS)

# Main characteristics of CC

- Pay-per-use
  - no ongoing commitment, utility prices
- Elastic capacity and the illusion of infinite resources
- Multitenancy
  - Same instance of an application to serve multiple clients
- Resources that are abstracted or virtualized Resources provided as a Service and with a **self-service** Interface
  - provides users the ability to upload, build, deploy, schedule, manage, and report on their business services on demand.

# Cloud actors




# Platform as a Service

- A cloud platform offering an environment on which developers create and deploy applications
- Different Programming Languages
  - PHP
  - Java
  - Ruby
- Different DB
- Web based console to create application (with dashboard)

# Examples of PAAS: PythonAnywhere

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## Host, run, and code Python in the cloud!

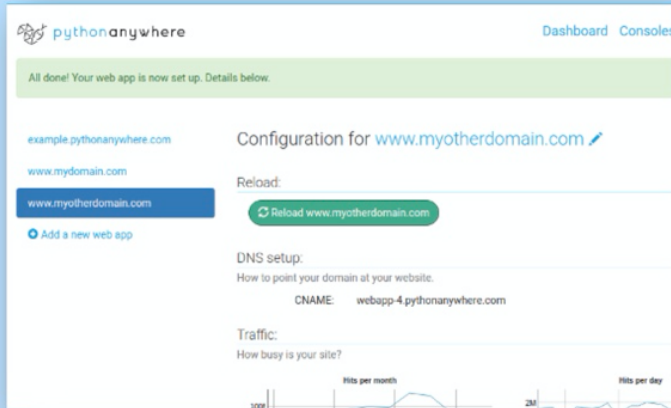
Get started for free. Our basic plan gives you access to machines with a [full Python environment](#) already installed. You can develop and host your website or any other code directly from your browser without having to install software or manage your own server.

Need more power? Upgraded plans start at \$5/month.

[Start running Python online in less than a minute! »](#)

[Watch our one-minute video »](#)

Not convinced? [Read what our users are saying!](#)



### Start hosting quickly

Just write your application. No need to configure or maintain a web server — everything is set up and ready to go.

### Develop anywhere

Take your development environment with you! If you have a browser and an Internet connection, you've got everything you need.

### Teach and learn

PythonAnywhere is a fully-fledged Python environment, ready to go, for students and teachers — concentrate on teaching, not on installation hassles.

### Amazing support

Need help with PythonAnywhere? If you get in touch, you can talk directly with the development team. Help for developers, from developers.



# PythonAnywhere

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**Dashboard** [Consoles](#) [Files](#) [Web](#) [Tasks](#) [Databases](#)

## Dashboard

Welcome, [robertoBeraldi](#)

**CPU Usage:** 0% used – 0.00s of 100s. Resets in 10 hours, 41 minutes [More info](#)

[Upgrade Account](#)

**File storage:** 15% full – 74.7 MB of your 512.0 MB quota

### Recent Consoles

+ 5 -

 [Bash console 17706162](#)

[View all](#)

### New console:

You can have up to 2 consoles. To get more, [upgrade your account!](#)

### Recent Files

+ 5 -

/home/robertoBeraldi/mysite/  
[flask\\_app.py](#)

/var/www/  
[robertoberaldi\\_pythonanywhere\\_com\\_...](#)

/home/robertoBeraldi/.pythonstartup.py

[+ Open another file](#)

[Browse files](#)

### Recent Notebooks

+ 5 -

Your account does not support Jupyter Notebooks. [Upgrade your account](#) to get access!

### All Web apps

[robertoBeraldi.pythonanywhere.com](#)

[Open Web tab](#)



# Heroku

<https://www.heroku.com/platform>

# OpenShift

- <https://www.openshift.com/products/features>

# The Big players

- [Amazon Web Service](#)
- [Google](#) ([console](#))
- [IBM](#)
- [Microsoft](#)