Section 10: Deploying to a Platform as a Service (Heroku)

Introduction

What is a Platform as a Service (PaaS)?

“A cloud-based service that provides a platform allowing customers to develop, run, and manage applications without the complexity of building and maintaining the infrastructure typically associated with developing and launching an app.”

Understanding the Range of Possibilities

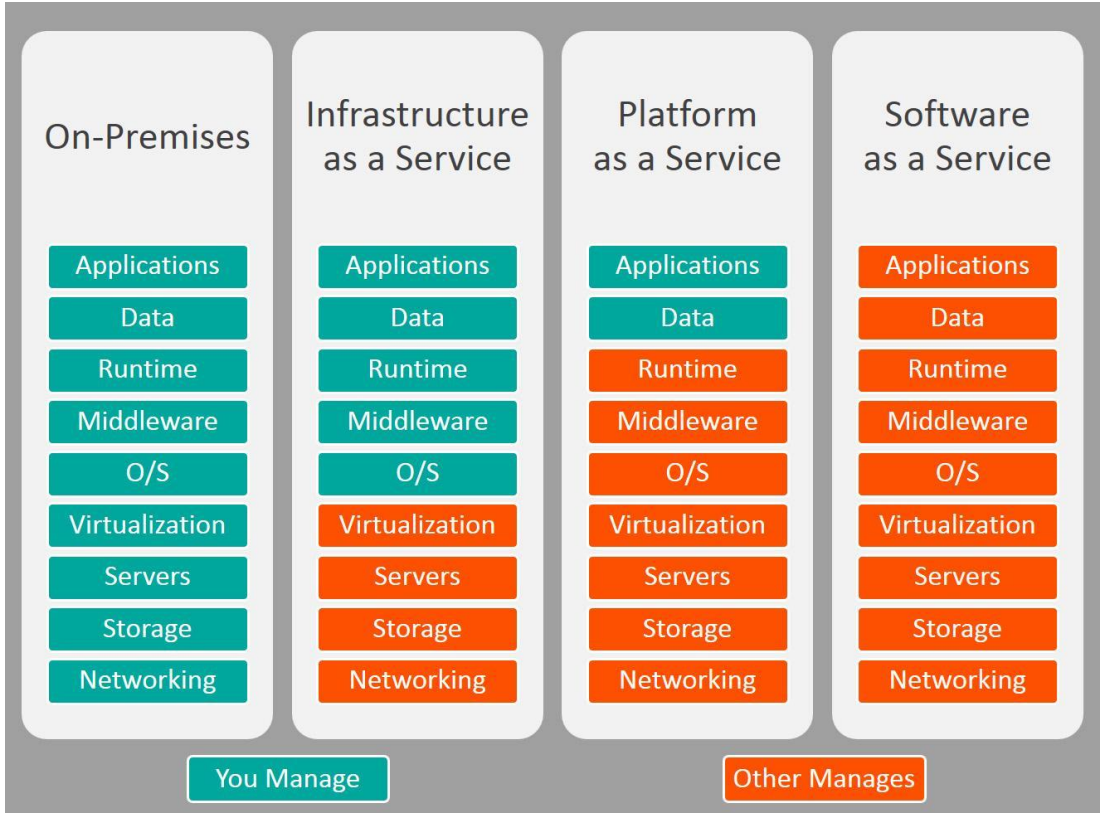

Image copyright: https://www.bmc.com

PaaS Pros and Cons

Pros	Cons
Simple to setup, maintain and deploy	Hard / impossible to scale to a very large size
Easy to scale to moderate size	Tends to be more expensive than IaaS
Allows developers to focus on apps	Vulnerable to PaaS downtime
Easy creation of dev/test environments	Limitations on configuration

PaaS Providers

- AWS Elastic Beanstalk
- Windows Azure
- Heroku
- Force.com
- Google App Engine
- Apache Stratos
- OpenShift
- PythonAnywhere
- ...and many more.

Why Heroku in this Course?

- Note that in the IaaS section, we will use AWS ECS
- Heroku is very easy to use
- We can use one Heroku Dyno for free (ideal for teaching).
- Nice 3rd Party Add on options
- Works with Docker
- Great documentation
- Supports multiple languages

Let’s Get Started!

See you in the next section