



# Software Engineering





# Plan

- ◇ Deployment
- ◇ Motivation
- ◇ Platform Spectrum
- ◇ Heroku





# Deployment

# Agile Development Cycle





“Software deployment is all of the activities that make a software system available for use.”



# Software Deployment Activities

- ◇ Release
- ◇ Installation and activation
- ◇ Deactivation
- ◇ Uninstallation
- ◇ Update
- ◇ Built-in update
- ◇ Version tracking
- ◇ Adaptation



# Motivation



# Software Deployment Advantages



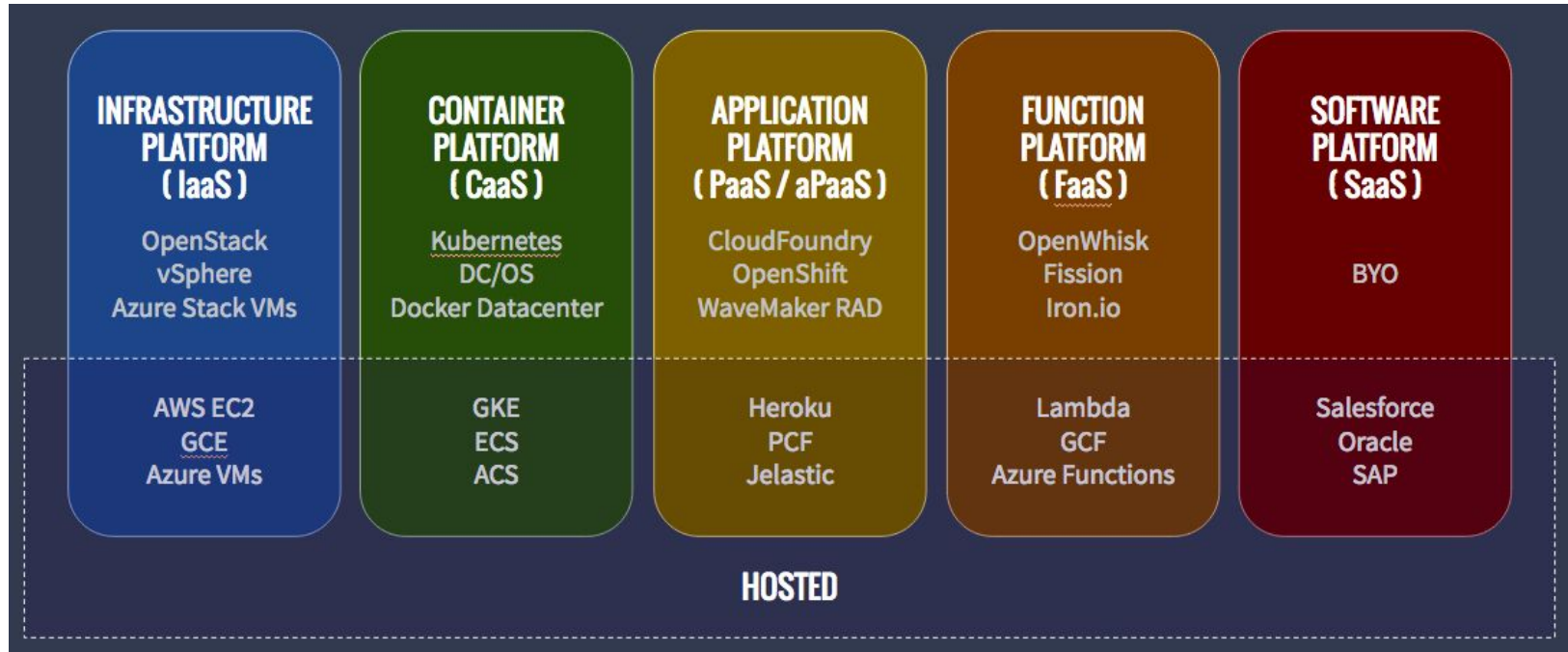


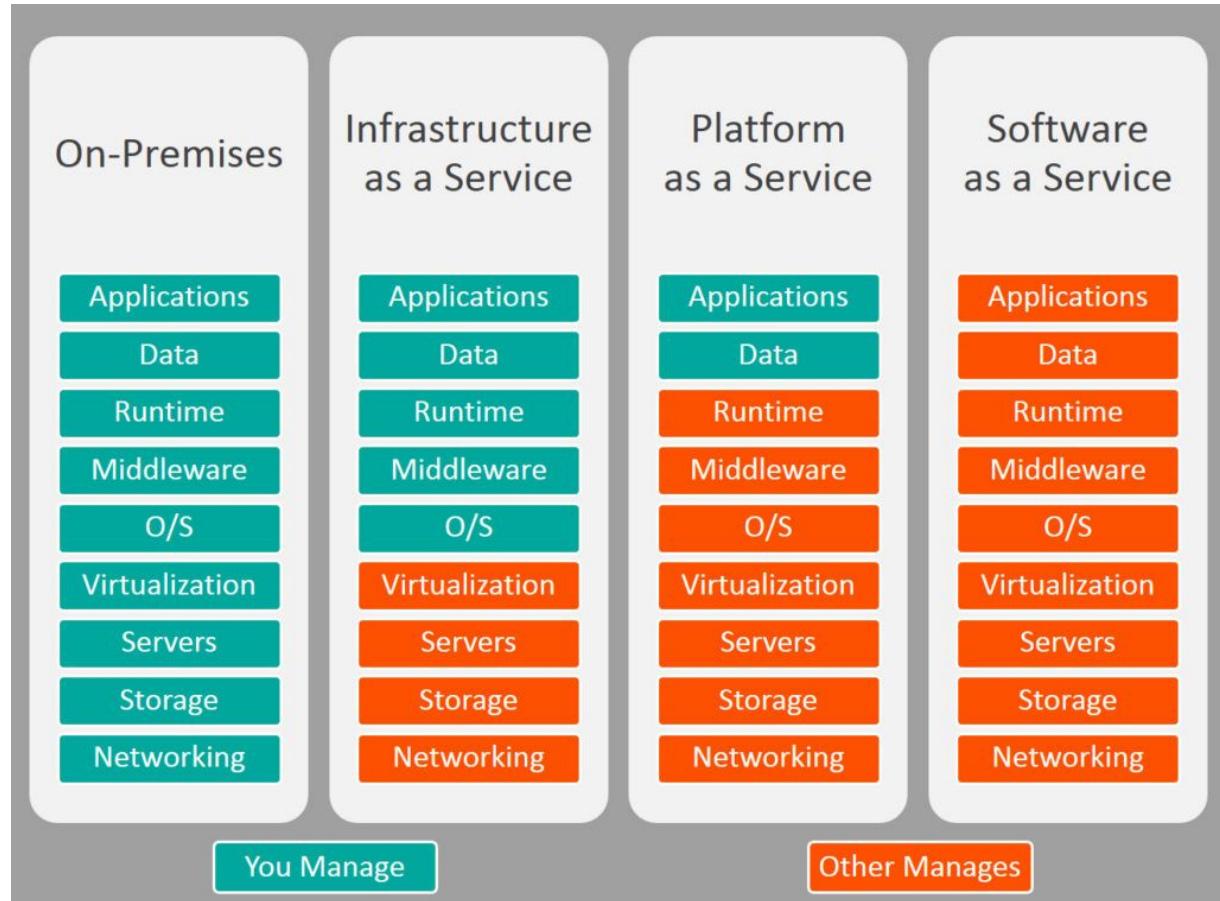


# Platform Spectrum



# Platform Spectrum







Heroku



“Heroku is a container-based cloud Platform as a Service (PaaS).

Heroku is used to deploy, manage, and scale modern apps”



## Fast app delivery, short cycles

The [Heroku Platform](#) enables you to build and deploy apps fast. Whether you're working on a personal project or a company product, Heroku helps you quickly prototype new ideas, build new features, or deliver new apps to production and beyond.



## Run apps for free

A range of [free services on Heroku](#) can help you experiment, play, or test out new ideas with your users. Signing up with Heroku gives you a pool of free [dyno](#) hours to use for your apps. Many of our [add-on providers](#) also offer free services.



## Seamless scalability

Once your app gains traction with users, you can easily [scale app resources](#) with a single click or command using the Heroku Dashboard or CLI. The platform's autoscaling feature allows your apps to instantly scale up or down as needed.



## Polyglot platform

Heroku is flexible and adapts to your development style. The platform officially supports eight popular [development languages](#) and frameworks. [Heroku Buildpacks](#) extend the build system to support additional languages or customizations.



## Integrated data services

Heroku's managed data services are optimized for developers, making it even easier to build data-driven apps. Choose [Heroku Postgres](#), [Heroku Redis](#), and [Apache Kafka on Heroku](#), or [third-party add-on](#) services.



## Documentation and support

The [Heroku Dev Center](#) offers a wealth of information, including technical reference docs, getting started guides by language, learning resources, changelogs, and more. In addition, Heroku offers a variety of [support options](#) for customized assistance. We're also proud of authoring the [twelve-factor app manifesto](#).



## Simplified DevOps

With a [fully-managed platform](#), Heroku's staff monitors uptime, performance, and infrastructure concerns, freeing you from the distraction of setting up and managing your own servers and hardware operations.



## Ecosystem of add-on services

Build apps faster by extending the Heroku platform with fully-managed cloud services that can be installed in one click. Over 150+ [Heroku Add-ons](#) support every stage of app development and operation.



## Team collaboration

[Heroku Teams](#) offers shared app workspaces and centralized tools to manage your app project's team, processes, and billing. Heroku Flow provides collaboration tools and workflows to support your [continuous delivery](#) and [continuous integration](#) practices.



## Getting Started on Heroku

Step-by-step guides for deploying your first app and mastering the basics of Heroku



Node.js



Ruby



Java



PHP



Python



Go



Scala



Clojure



# Thanks!

## Any questions?

You can find me at:

- ◇ Github:  
<https://github.com/MoAgamia/SE-Boot-Camp>







# References

- ◇ [https://en.wikipedia.org/wiki/Software\\_deployment](https://en.wikipedia.org/wiki/Software_deployment)
- ◇ <https://pdf.wondershare.com/business/what-is-software-deployment.html>
- ◇ <https://mesosphere.com/wp-content/uploads/2017/07/platform-spectrum-small.png>
- ◇ <https://www.heroku.com>

