

## Open Source PaaS platforms

There are a lot of Open Source PaaS tools in this space as of late

- Dokku**: <http://progrium.viewdocs.io/dokku/>

A simple, small PaaS running on one host. Uses Docker and Nginx as the most important building blocks. It is written in Bash and uses Buildpacks to build an application specific Docker container.

- Deis**: <http://deis.io/>

The big sister of Dokku. Building blocks used in Deis include CoreOS, Ceph, Docker, and a pluggable scheduler (Fleet by default, however Kubernetes will be available in the future). Buildpacks are used for creating the runtime containers. At least three servers are needed to effectively run Deis.

- Tsuru**: <https://tsuru.io/>

Similar to Deis, but says it also supports non-12-Factor apps. There is even a possibility to manage VMs, not only containers. This, too, uses Docker as building block. Other components like scheduler are coming from the Tsuru project.

- Flynn**: <https://flynn.io/>

Also similar to the two tools above. It also uses Docker as backend, but uses many project specific helper services. At the moment, only PostgreSQL is supported as a datastore for applications.

- Apache Stratos**: <http://stratos.apache.org/>

This is more of a framework than just a "simple" platform. It is highly multi-tenant enabled and provides a lot of customization features. The architecture is very complex and has a lot of moving parts. Supports Docker and Kubernetes.

- Cloud Foundry**: <https://www.cloudfoundry.org/>

One of the biggest player besides OpenShift in this market. It provides a platform for running applications and is used widely in the industry. Has a steep learning curve and is not easily installed, configured, or operated

- OpenShift**: <http://www.openshift.org/>

Started in 2011 as a new PaaS platform using it's own project specific technologies, has been completely rewritten in v3 using Docker and Kubernetes as the underlying building blocks.