**OpenShift**

OpenShift is a cloud-enabled Platform as a Service (PaaS) hosted by RedHat. It is an open source cloud-based platform used to create, test, and run applications, and finally deploy them on the cloud. OpenShift supports 3 kinds of platforms for the developers and users, these are IaaS, SaaS and PaaS.

**Why OpenShift?**

OpenShift provides a common platform for enterprise units to host their applications on cloud without worrying about the underlying operating system. It provides managed hardware and network resources for all kinds of development and testing. With OpenShift, PaaS developer has the freedom to design their required environment with specifications.

**OpenShift Container Platform**

It is an enterprise platform which helps multiple teams such as development and IT operations team to build and deploy containerized infrastructure. It is built on the core concepts of application containers powered by **Docker**, where orchestration and administration is managed by **Kubernetes**. In other words, OpenShift brings Docker and Kubernetes together to an enterprise level.

OpenShift container platform is available in 2 package levels.

1. **OpenShift Container Local** – for devs who wish to deploy and test applications on the local machine. It is mainly used by dev teams for developing and testing applications.
2. **OpenShift Container Lab** – designed for extended evaluation of application starting from development till deployment to pre-prod environment.

**OpenShift Dedicated**

There is another offering added to the portfolio of OpenShift, wherein there is a customer choice of hosting a containerized platform on any of the public cloud of their choice. This gives the end user a true sense of multi-cloud offering, where they can use OpenShift on any cloud which satisfies their needs.

**Features –**

* Extensible and Open
* Portability
* Orchestration
* Automation