**Docker Training Syllabus**

**What is Docker?**

* **Use cases**
* **Major components of Docker**
* **Docker architecture fundamentals**

**Docker architecture**

* **Docker images**
* **Docker registry**
* **Docker containers**

**The underlying technology**

* **Namespaces**
* **Control groups**
* **Union FS**
* **Container format**

**Installation of Docker**

* **Installation on Ubuntu via apt-get**
* **installation of newer version of Docker**

**Dockerizing applications**

* **The hello world example**
* **Interactive container**
* **Daemonizing programs**

**Container usage**

* **Running a web app in a container**
* **Investigating a container**
* **Port mapping**
* **Viewing the logs**
* **Looking at processes**
* **Stopping and restarting**
* **Removing a container**

**Managing images**

* **Listing images**
* **Downloading images**
* **Finding images**

**Networking of containers**

* **Port mapping details**
* **Container linking and naming**
* **Linking and environment variables**

**Data in containers**

* **Data volumes**
* **Host directories as data volume**
* **Host file as data volume**
* **Data volume containers**
* **Backup, restore of data volumes**

**Contributing to the ecosystem**

* **What is Docker Hub?**
* **Registering on Docker Hub**
* **Command line login**
* **Uploading to Docker Hub**
* **Private repositories**
* **Automated builds**