**The Prerequisites and setup details for Docker-Kubernetes Training**

**Prerequisite Knowledge**

The participants must have

* Experience with Linux command line(terminal)
* Understanding of the software development lifecycle.
* A general understanding of virtualization concepts
* Understanding of networking concepts
* Understand web application deployments and execution process.
* Understanding about ORDBMS PostgreSQL and NoSQL database like MongoDB with sql commands.

**Participant’s Machine-Setup**

**Hardware**: The Intel dual/Quadra core compatible CPU with minimum 8GB RAM and 500GB HDD with LAN network enabled and open internet access.

**Software** :

Linux Ubuntu-16.04/18.04 64 bit system with virtualization enabled and following software packages to be installed and configured.

1. Docker CE ver.19.03 for Ubuntu and docker-compose ver. 1.27.4 for Linux.
2. Kubernetes tools kubeadm and kubectl latest versions for Linux
3. Adobe Acrobat Reader for Linux
4. Mozilla Firefox/Google Chrome browser latest version
5. The webex may not work on Ubuntu systems, in that case arrange alternate tool for online interaction like Zoom or Google Meet.

**Installation Links**

Verify virtualization enabled on Linux

[**https://ostechnix.com/how-to-find-if-a-cpu-supports-virtualization-technology-vt/**](https://ostechnix.com/how-to-find-if-a-cpu-supports-virtualization-technology-vt/)

Docker installation

Refer **Docker** section in following link

<https://kubernetes.io/docs/setup/production-environment/container-runtimes/>

Docker-compose installation for Linux

<https://docs.docker.com/compose/install/>

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