

# Federated ML application at edge R4 Installation Document

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## Introductions

FATE can be installed on Linux or Mac. Now, FATE can support

- Native installation: standalone and cluster deployments;
- KubeFATE installation:
  - Multipal parties deployment by docker-compose, which for developoment and test purpose;
  - Cluster (multi-node) deployment by Kubernetes

## Native installation:

Software environment :jdk1.8+Python3.6python virtualenvmysql5.6+

### Standalone

FATE provides Standalone runtime architecture for developers. It can help developers quickly test FATE. Standalone support two types of deployment: Docker version and Manual version. Please refer to Standalone deployment guide: [standalone-deploy](#)

### Cluster

FATE also provides a distributed runtime architecture for Big Data scenario. Migration from standalone to cluster requires configuration change only. No algorithm change is needed.

To deploy FATE on a cluster, please refer to cluster deployment guide: [cluster-deploy](#).

## KubeFATE installation:

Using KubeFATE, FATE can be deployed by either docker-compose or Kubernetes:

- For development or testing purposes, docker-compose is recommended. It only requires Docker enviroment. For more detail, please refer to [Deployment by Docker Compose](#).
- For a production or a large scale deployment, Kubernetes is recommended as an underlying infrastructure to manage FATE system. For more detail, please refer to [Deployment on Kubernetes](#).

More instructions can be found in [KubeFATE](#).

## FATE-Client Installation

FATE-client is an easy tool for interacting with FATE. We strongly recommend you install FATE-client and take its advantage to use FATE conveniently. Please refer to this [document](#) for more details on FATE-Client.