# Document purpose

This document describes the installation process of Customer’s OpenStack cloud.

# Key terms, acronyms and abbreviations

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| **Term/acronym/abbreviation** | **Definition** |
| VM | Virtual Machine |
| CLI | Command-line user interface |
| UI | Graphical user interface |

# Introduction

This document describes the installation process of Customer’s staging OpenStack cloud. For more detailed information use official Mirantis OpenStack documentation.

<https://docs.mirantis.com/openstack/fuel/fuel-7.0/>

# Types of Nodes

* Controller:  
  The controller node hosts all OpenStack management services. It runs MySQL and RabbitMQ used for communication between nodes. The Glance image service and the Ceph Monitor service also run there.
* Compute:  
  Compute nodes are responsible for running VMs.
* Storage

Storage nodes are storing Glance images, volumes, VM’s block devices. The Ceph OSD Daemon is running there.

* Fuel master:  
  Fuel master node is responsible for managing OpenStack installation by UI or CLI, collecting log files.
* Mongo

Ceilometer uses mongo database as a backend for metrics storing.

* Elasticsearch\_kibana, Influxdb\_grafana and Infrastructure\_alerting

These nodes are used as a monitoring solution that stores and collect data, required for notifications and alerting support.