Collaborative Toxicogenomics Platform   
Requirements and Installation Guide

# Platform Overview

The Collaborative Toxicogenomics Platform (CTP) is installed on an appropriately pre-configured Linux operating system, and is comprised of a variety of different components. CTP needs a web server, database, and appropriate software packages installed to allow it to appropriately function.

[add more content later]

# Platform Components and Function

# Minimum Hardware and Software Requirements

## Hardware Requirements

## Software Requirements

* Ubuntu 16.04 LTS or higher with 4 GB of memory or more / 100 GB disk space
* PostgreSQL 9.5 or higher
* Python 3.5
  + Django 1.10.6
  + Celery 4.0.0
  + RabbitMQ

# Installation

## Celery and RabbitMQ

### Background

Celery is the ??? and it utilizes a broker to handle the message passing. The default configured broker for this project is RabbitMQ although Celery can be configured to use other brokers.

### References

Celery:

Rabbit MQ: [www.rabbutmq.com/download.html](http://www.rabbutmq.com/download.html)

### Unix (Ubuntu, Debian)

[Add content]

### Mac OSX

Recommended path to install RabbitMQ is through homebrew (https://brew.sh/) using the following commands to install the broker and add it to the services file so it is always available upon login/restart:

brew install rabbitmq

brew services start rabbitmq

### Windows