COINSTAC Installation Instructions for Ubuntu 16.04

## Introduction

The Collaborative Informatics and Neuroimaging Suite Toolkit for Anonymous Computation, User Interface (COINSTAC) is software created to foster collaborative research by removing large barriers to traditional data-centric collaboration approaches. It is a desktop application that can be run on the major three operating systems (Windows, Mac, and Linux).

## Installation

Below are instructions for how to set up COINSTAC on your computer. These instructions work for Ubuntu 16.04 and may work for later versions of Ubuntu and other Debian-based systems (no guarantees). You may also be able to run on CentOS, but we have not tested on any versions of that OS.

The following steps should be taken, explained in more detail below:

1. Verify System Requirements
2. Install Docker
3. Download and Run COINSTAC Application

## Verify System Requirements

Use an Ubuntu 16.04 computer that has at least 8 GB of memory.

<https://docs.docker.com/install/linux/docker-ce/ubuntu/#prerequisites>

## Install Docker

Install Docker using the instructions in the link below.

<https://docs.docker.com/install/linux/docker-ce/ubuntu/>

### Verify Installation

Check that docker is installed by opening a terminal and typing:

docker -v

You should see a similar message, probably with a different version and build:

Docker version 18.03.1-ce, build 9ee9f40

### Verify Docker is Running

Before starting COINSTAC, verify that Docker is running on your computer by opening a terminal and typing:

sudo systemctl status docker

### Running Docker

To run Docker, type the following into a terminal window:

sudo systemctl start docker

## Download and Run COINSTAC Application

### Download

To download the COINSTAC application, go to this page and download the latest release:

<https://github.com/MRN-Code/coinstac/releases>

* Download the file named **coinstac-linux-x64.zip**.
* After the download is complete, extract the zip file to a folder on your computer.

### Run Application

After extraction, install [gksudo](https://linux.die.net/man/1/gksudo) by opening a terminal window and typing:

sudo apt install gksudo

Next, in that terminal window, navigate to the folder holding the COINSTAC application and run COINSTAC with gksudo:

gksudo ./coinstac

A window will appear asking you to type in your user password. Please do so.