

# The QA Network

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A prototype for a distributed Question and Answer based network.

## Installation Instructions

This project is written in the Ruby programming language, please follow the following steps to install ruby.

Note: We're assuming a linux/macOS based machine for running this project

## Installing Ruby

Install RVM

```
$ gpg --keyserver hkp://keys.gnupg.net --recv-keys 409B6B1796C275462A1703113804BB82D39DC0E3
```

```
curl -sSL https://get.rvm.io | bash -s stable
```

```
source ~/.rvm/scripts/rvm
```

```
rvm requirements
```

Install ruby 2.5.1 using RVM

```
rvm install ruby 2.5.1  
rvm use 2.5.1 --default
```

## Installing Redis

We recommend using the following instructions for setting up redis:

<https://www.digitalocean.com/community/tutorials/how-to-install-and-use-redis>

## Project Setup

After installing Ruby, we will now setup the application itself.

`cd` into the project directory and then run:

```
gem install bundler  
gem install foreman  
bundle install
```

The above command will install all the necessary libraries required for this project.

Once installation is complete, you can now run this project using

following command:

```
foreman start
```

This command will start the following processes:

1. A service discovery app on port 4567
2. A load balancer app on port 9292
3. A question service app on port 3003
4. An answer service app on port 3002

Note: For the demo we will be setting up these on separate machines, but by using **foreman** you can quickly set up on one machine.

Please email [spagnis1@umbc.edu](mailto:spagnis1@umbc.edu) in case you have any difficulty in installing. Thank you!