# Railgun Quick Start Guide for Optimized Partners

## Introduction

This document is designed as a basic guide for Optimized Partners to install and configure Railgun quickly. The following will not cover all network topologies and all specific configuration types. Full details are available at http://cloudflare.com/docs/railgun. This guide will focus on servers that use `kpkg/apt` or `yum/rpm`.

## System requirements

**You will want to make sure that your system contains:**

- 64-bit Quad-Core Processor
- 8 GB RAM

**Supported operating systems:**

- Debian 6 and 7
- Ubuntu 10.04, 11.10, 12.04, 12.10, and 13.04
- FreeBSD 8 & 9
- Red Hat Enterprise Linux 5 & 6
- CentOS 6 & 7

The appropriate package can be downloaded at https://partners.cloudflare.com

**Other sofware:**

- Memcached
    - Version 1.4 and above
    - 1 GB instance
    - 2+ GB recommended
    - Size of instance may need to be expanded as more sites are put on Railgun

**NOTE**: Memcached should be installed before Railgun. Memcached should also be running

before a Railgun instance is created.

## Before installing Railgun

- **All commands that change things on the server will need to be run as root**
- **If you are using a firewall of any sort, you should open up port 2408**

For ufw :

```
for i in `curl https://www.cloudflare.com/ips-v4`; do ufw
allow proto tcp from $i to any port 2408; done;
```

For iptables :

```
for i in `curl https://www.cloudflare.com/ips-v4`; do
iptables -I INPUT -p tcp -s $i --dport 2408 -j ACCEPT;
done;
```

You should also have your server IP handy, as it appears to the rest of the internet. If you are unsure of what this is, make a note of the response when you run:

```
curl icanhazip.com
```

If you wish to use the Optimized Partner API, see the Optimized Partner API documentation at http://www.cloudflare.com/docs/railgun/api/partner_api.html

## Installing the Railgun listener

1. Download the Railgun Package from teh Downloads section at https://partners.cloudflare.com
2. Install the package

   If you are using the .rpm package:

   ```
   rpm -Uvh railgun-elx.latest.rpm
   ```

   If you are using the .deb package:

   ```
   dpkg -i railgun-distribution.latest.deb
   ```

Keep in mind the actual package name will correspond with the version of your OS version

## Setting up Railgun

1. Generate a Railgun token at https://partners.cloudflare.com/railgun or run the `init`

Railgun API call:
2. Using your preferred text editor, edit: `/etc/railgun/railgun.conf`
3. Look for these two lines:
   `activation.token = YOUR_TOKEN_HERE`
   `activation.railgun_host = YOUR_PUBLIC_IP_OR_HOSTNAME`
4. Replace `YOUR_TOKEN_HERE` with the Railgun token you acquired in Step 1 of this section
5. Replace `YOUR_PUBLIC_IP_OR_HOSTNAME` with the IP of the Railgun server that you acquired earlier
6. Save the file and close your text editor
7. Start Memcached, if it is not started already: `/etc/init.d/memcached start`
8. Start Railgun `/etc/init.d/railgun start`

## Suggesting a Railgun to a zone on CloudFlare

You can suggest a Railgun to a zone at https://partners.cloudflare.com/railguns or using the `suggestion_set` API call.

You can also suggest Railgun to every zone in your servers' IP range at https://partners/cloudflare.com/railguns or using the `ipr_set` API call.