



Reflection Enterprise Installation Guide

System Requirements and Prerequisites

For all operating systems:

- Administrative access to your server and administrative permission to install software.
- [Docker](#) must be installed before the Reflection Enterprise software package.
- Servers running Reflection will require at a minimum 2 processing cores, 8 Gb RAM, high speed internet access, 20Gb of disk space.

Installing the downloadable package

Mac

Double click on the *.pkg file to launch the installation.

Windows

Double click on the *.exe to launch the installation.

Linux

Run the command `apt install ./[name of package].deb`.

Configuring Docker to allow remote connections

By default, Docker does not allow you to connect remotely to manage it. To setup Docker to allow remote connections run the following:

Mac & Linux

On your Docker host, run the following command `docker run -p 2375:2375 -v /var/run/docker.sock:/var/run/docker.sock -d jarkt/docker-remote-api`. This will launch a container on your Docker host that allows connection to port 2375.

Windows

Create or update the daemon.json file inside the the %ProgramData\docker\config folder, and add the following:

```
{ "hosts": ["tcp://0.0.0.0:2375"] }
```

Once that entry has been added, restart the docker service.

Installation & Application Directories

Note: The Application Config folder will contain the Elasticsearch.yml file and the docker-compose file used to spin up the swarm.

Mac

- Installation Folder: /usr/local/lib/reflection-installer
- Application Config Folder: ~/Library/Application Support/reflection-installer
- Log Folder: ~/Library/Logs/reflection-installer

Windows

- Installation Folder: C:\Program Files\reflection-installer
- Application Config Folder: %LOCALAPPDATA%\reflection-installer\reflection-installer
- Log Folder: %LOCALAPPDATA%\reflection-installer\reflection-installer\Logs

Linux

- Installation Folder: /usr/lib/reflection-installer
- Application Config Folder: ~/.local/share/reflection-installer
- Log Folder: ~/.cache/reflection-installer/log

Reflection-Installer usage

Commands

help	display help for reflection-installer
initialize	Sets up and configures the environment for Reflection
remove	Removes the Reflection services and cleans up the Docker images.
service:restart	Restarts one or all of the Reflection services.
service:start	Start one or all of the Reflection services.
service:status	Get the current status of the Reflection services.
service:stop	Start one or all of the Reflection services.
service:update	Updates a service to a new version.

How to Run

```
$ reflection-installer initialize
$ reflection-installer remove
$ reflection-installer service:status
```

Initialize Command

This command will configure everything needed to properly run Reflection Enterprise. It pulls down the required docker images, configures all the services, and then launches the initial login page for Reflection Enterprise.

If your Docker host is on a remote machine, you can connect to it using the `--dockerHostName` parameter. If your Docker host is running on a different port than 2375, append it onto the end of the server name/ip address.

Example `reflection-installer initialize --dockerHostName=10.0.0.1:4000`

Remove Command

This command will remove Reflection Enterprise from your docker swarm and remove the Reflection docker images from your docker host.

If your Docker host is on a remote machine, you can connect to it using the `--dockerHostName` parameter. If your Docker host is running on a different port than 2375, append it onto the end of the server name/ip address.

Example `reflection-installer remove --dockerHostName=10.0.0.1:4000`

Service Commands

These commands allow you to gather the status of the Reflection services, as well as stop/start/restart the services.

service:restart Command

This command will stop all the Docker services by scaling them down to 0, then scaling them back up.

This command has several optional parameters you can pass to it:

OPTIONS

<code>--dockerHostName=dockerHostName</code>	The name or ip address and the port of the remote docker instance. i.e. <code>10.0.0.1:2375</code>
<code>--instanceCount=instanceCount</code>	The number of instances of the services to start.
<code>--serviceName=serviceName</code>	The name of the Reflection service. i.e. Reflection Coordinator

service:start Command

This command will start one or all the Reflection Docker services.

This command has several optional parameters you can pass to it:

OPTIONS

<code>--dockerHostName=dockerHostName</code>	The name or ip address and the port of the remote docker instance. i.e. <code>10.0.0.1:2375</code>
<code>--instanceCount=instanceCount</code>	The number of instances of the services to start.
<code>--serviceName=serviceName</code>	The name of the Reflection service. i.e. Reflection Coordinator

service:status Command

This command will report back the status of the service, the number of instances for a service, and the version of the service.

The status of the service will be one of the following:

- running: The service is currently running
- stopped: The service is currently stopped
- unstable: The service is having trouble starting.

This command has one optional parameter you can pass to it:

OPTIONS

```
--dockerHostName=dockerHostName  The name or ip address and the port of the remote
                                   docker instance.  i.e. 10.0.0.1:2375
```

service:stop Command

This command will scale one or all the Reflection Docker services to 0.

This command has several optional parameter you can pass to it:

OPTIONS

```
--dockerHostName=dockerHostName  The name or ip address and the port of the remote
                                   docker instance.  i.e. 10.0.0.1:2375
--serviceName=serviceName         The name of the Reflection service.  i.e. Reflection
                                   Coordinator
```

service:update Command

This command will update a service to a newer version.

This command has several parameters you can pass to it:

OPTIONS

```
--dockerHostName=dockerHostName  The name or ip address and the port of the remote
                                   docker instance.  i.e. 10.0.0.1:2375
--downloadTimeout=downloadTimeout The amount of time in seconds to wait for the image
                                   to download before failing.  Default: 300 seconds
--serviceName=serviceName         (required) The name of the Reflection Enterprise
                                   service.  i.e. Reflection Coordinator
--version=version                 (required) The version of the service to update to.
```