Setting up monitoring

> ⚠ To generate and view metrics, you must have:
>
> - A standard set of C++ compiler tools on the system running the application. See Installing compiler tools for more information.
> - A valid StrongLoop license key on the system running the application.
>   You automatically get a free trial license valid for 30-days from when you first run Arc that applies to apps running locally within Arc. See Managing your licenses for more information.

- Prerequisites
    - Run Arc to get license key
    - Identify application name
    - Install compiler tools
- Enable monitoring with third-party consoles

Prerequisites

Run Arc to get license key

You must run StrongLoop Arc at least once to get a license key. The first time you run Arc, it contacts the StrongLoop license server to request a free 30-day trial key.

> ⓘ You automatically get a free 30-day trial StrongLoop license key that starts the first time you run StrongLoop Arc. You can renew the trial license for certain features; see Renewing a license.
>
> To manage your StrongLoop product licenses in Arc go to the **Licenses** page that shows the license keys for specific features.
>
> For more information on licenses and subscriptions, see https://strongloop.com/node-js/subscription-plans/.

See Managing your licenses for more information.

Identify application name

> ⓘ If you created your application with `slc loopback`, this requirement will automatically be met.

The application name must be specified in one of the following ways:

- The application's `package.json` file **name** property. If you create your application with the `slc loopback` command, it creates this file and sets the application name appropriately.
- Environment variable STRONGLOOP_APPNAME.

> ⚠ The value of the environment variable supersedes the value set in `package.json`.

For example:

Excerpt from package.json

```
{  ...
 "name": "loopback-example-app",
 ...
}
```

Install compiler tools

To be able to view all metrics for an application (including memory and CPU profiling), you must have a small set of standard compiler tools on the machine running the application. See Installing compiler tools for more information.

⚠️ If you don't install compiler tools, you will see warnings when you run the application.

Enable monitoring with third-party consoles

To enable monitoring with third-party consoles, either:

- Set the STRONGLOOP_METRICS environment variable to a StatsD, Graphite, or Splunk collector URL
- Install StrongLoop Process Manager as a service with `sl-pm-install --metrics <url>` where <url> is a StatsD, Graphite, or Splunk collector URL.

Then simply run your application in StrongLoop Process Manager or with Arc: To run a local application in StrongLoop PM, use `slc start`. For production, start PM as described in Setting up a production host and then deploy your application to it.