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## Welcome to the PM2 Quick Start!

Welcome!

PM2 is a daemon process manager that will help you manage and keep your application online. Getting started

Github

Quick start

with PM2 is straightforward, it is offered as a simple and intuitive CLI, installable via NPM.

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**MONITOR PM2** 

Installation

Start an app The simplest way to start, daemonize and monitor your application is by using this command line:

Some options you can pass to the CLI:

# Specify log file --log <log\_path>

-- arg1 arg2 arg3

--no-autorestart

--cron <cron\_pattern> # Attach to application log --no-daemon

depending on your use case.

\$ pm2 delete app\_name Instead of app\_name you can pass: • all to act on all processes

• id to act on a specific process id

Check status, logs, metrics

List the status of all application managed by PM2:

dashboard with pm2.io.

\$ pm2 [list|ls|status]

https://i.imgur.com/LmRD3FN.png

**Display logs** To display logs in realtime:

To dig in older logs:

\$ pm2 logs --lines 200

\$ pm2 monit

\$ pm2 plus

https://i.imgur.com/xo0LDb7.png

https://i.imgur.com/sigMHli.png

To start an application in Cluster mode:

\$ pm2 start app.js -i max Read more about cluster mode here.

**Ecosystem File** 

This will generate and ecosystem.config.js file: module.exports = {

name: "app",

env\_production: {

script: 'worker.js'

\$ pm2 start process.yml

NODE\_ENV: "development",

NODE\_ENV: "production",

apps : [{

},

}]

And start it easily:

\$ pm2 ecosystem

Setup startup script

Restart application on changes

\$ pm2 start env.js --watch --ignore-watch="node\_modules"

any changes in the node\_modules folder --ignore-watch="node\_modules"

You can then use pm2 logs to check for restarted app logs.

It's pretty easy with the --watch option:

\$ cd /path/to/my/app

Read more about application declaration here.

**Updating PM2** We made it simple, there is no breaking change between releases and the procedure is straightforward:

pm2 update

# Fork mode

pm2 start app.js -i 0 pm2 start app.js —i max pm2 scale app +3

pm2 start app.js --name my-api # Name process

# Print process list in raw JSON

# Monitor all processes

# Print process list in beautified JSON

# Display all informations about a specific process

pm2 restart all pm2 reload all

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**CLUSTER MODE ECOSYSTEM FILE** GRACEFUL START/SHUTDOWN

SINGLE PAGE DOC

The latest PM2 version is installable with NPM or Yarn: \$ npm install pm2@latest -g

\$ yarn global add pm2

\$ pm2 start app.js

To install Node.js and NPM you can use NVM

Or start any other application easily: \$ pm2 start bashscript.sh \$ pm2 start python-app.py --watch

\$ pm2 start binary-file -- --port 1520

# Specify an app name --name <app\_name> # Watch and Restart app when files change

--watch # Set memory threshold for app reload

--max-memory-restart <200MB>

# Pass extra arguments to the script --restart-delay (delay in ms)

# Prefix logs with time --time # Do not auto restart app # Specify cron for forced restart

Managing processes Managing application state is simple here are the commands: \$ pm2 restart app\_name \$ pm2 reload app\_name \$ pm2 stop app\_name

As you can see many options are available to manage your application with PM2. You will discover them

List managed applications

Now that you have started this application, you can check its status, logs, metrics and even get the online

\$ pm2 logs

**Terminal Based Dashboard** Here is a realtime dashboard that fits directly into your terminal:

Cluster mode

For Node.js applications, PM2 includes an automatic load balancer that will share all

HTTP[s]/Websocket/TCP/UDP connections between each spawned processes.

pm2.io: Monitoring & Diagnostic Web Interface

Web based dashboard, cross servers with diagnostic system:

You can also create a configuration file, called Ecosystem File, to manage multiple applications. To generate an Ecosystem file:

name: 'worker',

Restarting PM2 with the processes you manage on server boot/reboot is critical. To solve this, just run this command to generate an active startup script: \$ pm2 startup And to freeze a process list for automatic respawn: \$ pm2 save Read more about startup script generator here.

npm install pm2@latest -g Then update the in-memory PM2:

pm2 list

pm2 jlist

pm2 monit

# Logs

pm2 prettylist

pm2 describe 0

pm2 scale app 2

pm2 logs [--raw] pm2 flush # Empty all log files pm2 reloadLogs # Reload all logs

pm2 stop 0 pm2 restart 0

What's next? Learn how to declare all your application's behavior options into a JSON configuration file.

pm2 reset <process>

pm2 updatePM2

pm2 ping

Then update the in-memory PM2: pm2 update

Learn how to do clean stop and restart to increase reliability.

Monitor your production applications with Keymetrics.

Learn how to deploy and update production applications easily.

Quick start Documentation

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**GET STARTED** 

CheatSheet Here are some commands that are worth knowing. Just try them with a sample application or with your current web application on your development machine:

pm2 stop all

pm2 delete 0 pm2 delete all # Misc

> pm2 start app.js --no-daemon pm2 start app.js --no-vizion pm2 start app.js --no-autorestart

> > Install the latest pm2 version: npm install pm2@latest -g

How to update PM2

Integrations

This will watch & restart the app on any file change from the current directory + all subfolders and it will ignore

# Will start maximum processes with LB depending on available # Scales `app` up by 3 workers # Scales `app` up or down to 2 workers total

# Will Os downtime reload (for NETWORKED apps) # Stop specific process id # Restart specific process id # Will remove process from pm2 list # Will remove all processes from pm2 list # Ensure pm2 daemon has been launched

**)** PM2\*