

Process Manager 2

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Absolutely! Here's a **complete step-by-step guide** to set up **PM2 with ecosystem config, monitoring, multi-service support, environment configs**, and optional **.env** integration — all in one go. Great for setting up production-ready Node.js apps.

FULL SETUP: PM2 + Ecosystem + Monitoring + .env

1. Install PM2 Globally

```
npm install -g pm2
```

2. Prepare Your App Structure

Example layout:

/your-project

```

├── client/          # React/Vue frontend
│   └── package.json # with npm start
├── server/          # Node backend
│   └── index.js
├── worker/          # Background jobs
│   └── jobProcessor.js
├── .env
└── ecosystem.config.js
  
```

3. Create .env File (Optional)

```
NODE_ENV=production
```

```
PORT=5000
```

```
API_KEY=your-secret-key
```

4. Install **dotenv** (if using .env in code)

```
npm install dotenv
```

Then load it in each app (**index.js**, etc.):

```
require('dotenv').config();
```

5. Create **ecosystem.config.js**

```
// ecosystem.config.js
```

```
module.exports = {  
  apps: [  
    {  
      name: 'backend-api',  
      script: './server/index.js',  
      instances: 2,  
      exec_mode: 'cluster',  
      autorestart: true,  
      watch: false,  
      max_memory_restart: '300M',  
      env: {  
        NODE_ENV: 'development'  
      },  
      env_production: {  
        NODE_ENV: 'production',  
        PORT: 5000  
      }  
    },  
    {  
      name: 'frontend',
```

```
script: 'npm',
args: 'start',
cwd: './client',
interpreter: 'none',
env: {
  NODE_ENV: 'development'
},
env_production: {
  NODE_ENV: 'production',
  PORT: 3000
}
},
{
  name: 'worker',
  script: './worker/jobProcessor.js',
  instances: 1,
  autorestart: true,
  watch: false,
  env: {
    NODE_ENV: 'development'
  },
  env_production: {
    NODE_ENV: 'production'
  }
}
]
};
```

6. Start Everything with PM2

Start all apps (dev):

```
pm2 start ecosystem.config.js
```

-

OR in production:

```
pm2 start ecosystem.config.js --env production
```

-

7. Monitor & Manage

Live monitor:

```
pm2 monit
```

-

View list:

```
pm2 list
```

-

View logs:

```
pm2 logs
```

-

8. Enable Auto-Restart on Reboot

```
pm2 startup
```

It will output a command — run that too (e.g. `sudo env PATH=$PATH:/usr/bin pm2 startup systemd -u youruser --hp /home/youruser`)

Then:

```
pm2 save
```

9. Optional: Link to PM2 Web Dashboard (PM2.io)

pm2 link

Follow the prompts to get live metrics and email alerts from <https://pm2.io>

Done! 🎉

Now your entire frontend/backend/worker setup is running, monitored, restartable, and production-hardened.

