一、Node开机重启使用PM2开机服务

安装步骤：<https://www.jianshu.com/p/6cb523c0ced8>

官方文档：<https://pm2.keymetrics.io/docs/usage/quick-start/>

注意：1、启动时已管理员权限打开

1. 添加配置文件processes.json，内容如下：

{

    "apps": [

        {

            "name": "NetDesign",

            "cwd": "D:/GitWorkplace/RouterDesign/design-website/express",

            "script": "./bin/www",

            "log\_date\_format": "YYYY-MM-DD HH:mm:ss",

            "error\_file": "D:/GitWorkplace/RouterDesign/design-website/express/node-app/node-app.stderr.log",

            "out\_file": "D:/GitWorkplace/RouterDesign/design-website/express/log/node-app.stdout.log",

            "pid\_file": "pids/node-geo-api.pid",

            "instances": 6,

            "min\_uptime": "200s",

            "max\_restarts": 10,

            "max\_memory\_restart": "1M",

            "cron\_restart": "1 0 \* \* \*",

            "watch": false,

            "merge\_logs": true,

            "exec\_interpreter": "node",

            "exec\_mode": "fork",

            "autorestart": false,

            "vizion": false

        }

    ]

}

参数说明：<https://www.xttblog.com/?p=3310>

3、当pm2\_env报错时，先杀进程再启动：#pm2 kill

二、nginx开机自启使用winsw

安装步骤：<https://blog.csdn.net/weixin_37288522/article/details/70576409>

1. 自动化部署

密钥生成：<https://blog.csdn.net/baidu_30809315/article/details/76687063>

部署：<https://www.cnblogs.com/lentoo/p/9539137.html>