



链滴

Deploy Springboot With Python

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原文链接: <https://ld246.com/article/1557498450002>

来源网站: [链滴](#)

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python 自动全量，增量部署脚本

运行在python3+下 命令 python3 deploy.py app springboot

-----> app (应用部署目录) springboot (应用zip包名称)

必须在用户目录下新建Releases目录，把此脚本放到下面命名为deploy.py

项目目录 ~/app/application/ 其中app要先自己手动创建

自用 仅做参考 可以结合<http://www.liumj.cn/articles/2019/04/20/1555736649588.html>

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# Program: springboot项目部署
import datetime
import os
import re
import shutil
import stat
import sys
import tarfile
import zipfile

# Home目录
HomePath = os.path.expanduser('~')

#config 可配置项
# 我自己的环境 其他环境去掉下面这句
# HomePath = HomePath + "/PycharmProjects/insteadShell"
# 是否备份
isbackUp = False
# 增量部署默认只会覆盖jar/war/lib下的包，需要强制覆盖的配置需要额外添加
# 强制需要覆盖的文件 例子:force_instead_file= ["data"]
force_instead_file= []

backUpDirName = '/backup'
allFileToDeploy = []
dirName = ""
dirPath = ""
HomePath = HomePath + "/"
ReleasePath = os.path.expanduser(HomePath + 'Releases/')

# 移动文件
def movefile(srcfile, dstfile):
    fpath, fname = os.path.split(dstfile) # 分离文件名和路径
    if not os.path.exists(fpath):
        os.makedirs(fpath) # 创建路径
    shutil.move(srcfile, dstfile) # 移动文件

# 备份
def makeBakDir(application_path):
    if not os.path.exists(application_path + backUpDirName):
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os.makedirs(application_path + backUpDirName)
return application_path + backUpDirName

# tar 打包
def tar(fname, fpath):
    t = tarfile.open(fname + ".tar", "w")
    for root, dir, files in os.walk(fpath):
        for file in files:
            fullpath = os.path.join(root, file)
            if backUpDirName not in fullpath and "/log/" not in fullpath and "/logs/" not in fullpath and "/nohup.out" not in fullpath:
                t.add(fullpath)
    t.close()

# unzip 解压zip包
def un_zip(zipFileName, target):
    f = zipfile.ZipFile(ReleasePath + zipFileName + ".zip", 'r')
    for file in f.namelist():
        f.extract(file, target)
    f.close()

def exit(errorMsg):
    print(errorMsg)
    sys.exit(1)

#### 获取所有需要部署的项目添加到变量 allFileToDeploy
def allFileToDeployM():
    global allFileToDeploy
    global dirName
    global dirPath
    # 所有在Release目录下的zip文件
    allfiles = os.listdir(ReleasePath)
    allZipFiles = [re.sub(r".zip", "", f) for f in allfiles if re.search('.zip$', f)]
    if len(sys.argv) <= 1:
        exit("参数错误 无法部署")

    # 全部署 python3 deploy.py
    if len(sys.argv) == 2:
        if not os.path.isdir(HomePath + sys.argv[1]):
            exit("请输入正确的应用部署目录")
        dirName = sys.argv[1]
        dirPath = HomePath + sys.argv[1]
        allFileToDeploy = allZipFiles
        # asw = input('是否在目录:%s 部署所有应用(y:n)\n'%(dirName))
        # if (asw != 'y'):
        #     exit("停止部署")

    # 部署目录和项目 python3 deploy.py app id-center
    if len(sys.argv) >= 3:
        if not os.path.isdir(HomePath + sys.argv[1]):
            exit("请输入正确的应用部署目录")
        else:
            dirName = sys.argv[1]

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dirPath = HomePath + sys.argv[1]
for i in range(len(sys.argv)):
    if (i >= 2):
        if sys.argv[i] in allZipFiles:
            allFileToDeploy.append(sys.argv[i])
        else:
            print("不存在应用:" + sys.argv[i] + ".zip")

print("所有即将部署的应用:", allFileToDeploy)
if len(allFileToDeploy) == 0:
    exit("没有需要部署的项目")
# asw = input("是否开始部署(y:n)\n")
# if asw == 'y':
#     print("开始部署")
# else:
#     exit("停止部署")

# 开始部署 备份
def deployApplication():
    for application in allFileToDeploy:
        print("开始部署目录:", dirName, "下的:", application, "项目")
        # 全量部署
        dir_path = HomePath + dirName + '/'
        application_path = dir_path + application
        if not os.path.isdir(application_path):
            un_zip(application, dir_path)
            os.chdir(application_path)
            os.chmod(application_path + "/start.sh", stat.S_IRWXU)
            os.system(application_path + "/start.sh > nohup.out 2>&1 &")
        else:
            # 开始备份
            os.chdir(application_path)
            os.chmod(application_path + "/stop.sh", stat.S_IRWXU)
            os.system(application_path + "/stop.sh")
            os.chdir(makeBakDir(application_path))
            if isbackUp:
                otherStyleTime = datetime.datetime.now().strftime("%Y%m%d%H%M%S")
                tar(application + otherStyleTime, application_path)
            # 增量部署
            un_zip(application, HomePath + 'Releases/')
            application_release_path = HomePath + 'Releases/' + application + '/'
            if os.path.isfile(application_release_path + application + '.war'):
                if os.path.isfile(application_path + application + '.war'):
                    os.remove(application_path + "/" + application + ".war")
                shutil.copy(application_release_path + application + '.war',
                            application_path + "/" + application + ".war")
            else:
                if os.path.isfile(application_path + application + 'jar'):
                    os.remove(application_path + "/" + application + ".jar")
                shutil.copy(application_release_path + application + 'jar',
                            application_path + "/" + application + ".jar")
            if os.path.isdir(application_path + "/lib"):
                shutil.rmtree(application_path + "/lib", True)

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shutil.copytree(application_release_path + '/lib', application_path + "/lib")
# 补充剩余空缺文件
listdir = os.listdir(application_path)
re_listdir = os.listdir(application_release_path)
for x in re_listdir:
    if x not in listdir or x in force_instead_file:
        if os.path.isdir(application_release_path + x):
            if os.path.isdir(application_path + "/" + x):
                shutil.rmtree(application_path + "/" + x)
            shutil.copytree(application_release_path + '/' + x, application_path + "/" + x)
        else:
            shutil.copy(application_release_path + '/' + x, application_path + "/" + x)
if os.path.isfile(application_path + "/start.sh"):
    os.chdir(application_path)
    os.chmod(application_path + "/start.sh", stat.S_IRWXU)
    os.system(application_path + "/start.sh > nohup.out 2>&1 &")
```



```
def main():
    allFileToDeployM()
    deployApplication()
    print("部署成功")
```



```
if __name__ == '__main__':
    main()
```