

Minecraft Server Launcher

v-1.0.2

```
1  #!/bin/bash
2  #####
3  ##### 信息 #####
4  #####
5  #version 1.0.2 2019-2-16
6  #By MilkMC-Hailay
7  #日志参考“二进制-程序猿”
8  #更新日志:
9  #2019-2-8 程序启动模块+日志
10 #2019-2-16 详细了解JVM参数-并发; 注释; 打印
11
12 #####
13 ##### 设置 #####
14 #####
15 MCPATH='/mc' #Minecraft目录SCREENNAME
16 LOGDIR=$MCPATH/MSL/log #日志目录
17 DATE=`date "+%Y-%m-%d"` #日志名称: YYYYMMDD
18 HISTORY=1024 #screen -h <行数> 指定视窗的缓冲区行数
19 SCREENNAME='milktown' #screen名字
20 MAXHEAP=512 #最大内存
21 MINHEAP=512 #最小内存
22 CPU_COUNT=1 #CPU核数 (并行回收器线程数)
23 SERVICE='minecraft_server.jar' #服务端核心名字
24 OPTIONS='nogui' #java选项
25 INVOCATION="java -Xmx${MAXHEAP}M -Xms${MINHEAP}M -XX:+UseConcMarkSweepGC \
26 -XX:+CMSIncrementalPacing -XX:ParallelGCThreads=$CPU_COUNT -XX:+AggressiveOpts \
27 -jar $SERVICE $OPTIONS" #服务端启动参数
28
29 #####
30 ##### 日志 #####
31 #####
32 DATE_N=`date "+%Y-%m-%d %H:%M:%S"`
33 TIME=`date "+%H:%M:%S"`
34 USER_N=`whoami`
35 #启动输出头
36 echo -e "\033[34m[${DATE_N}] 用户${USER_N}启动脚本 \033[0m" | sudo tee -a $LOGDIR/
37 $DATE.log
38
39 function log_info ()
40 {
41     if [ ! -d $LOGDIR ]
42     then
43         sudo mkdir -p $LOGDIR
44     elif [ ! -f "$LOGDIR" ];then
45         sudo touch $LOGDIR/$DATE.log
46     fi
47     echo "[${TIME} INFO]${@}" |sudo tee -a $LOGDIR/$DATE.log #执行成功日志打印路径
48 }
49
50 function log_error ()
51 {
52     echo -e "\033[41;37m[${TIME} ERROR]${@} \033[0m" |sudo tee -a $LOGDIR/$DATE.log
53     #执行失败日志打印路径
54 }
55
56 function fn_log () {
57     if [ $? -eq 0 ]
58     then
59         log_info "$@ suceeded."
60         echo -e "\033[32m $@ suceeded. \033[0m"
61     else
62         log_error "$@ failed."
63         echo -e "\033[41;37m $@ failed. \033[0m"
64         exit 1
65     fi
66 }
67 trap 'fn_log "DO NOT SEND CTR + C WHEN EXECUTE SCRIPT !!!! "' 2
68 #####
```

```

69 #####          启动          #####
70 #####
71
72 mc_start(){
73     if [ ! -f "$MCPATH/MSL/screen-ls.temp" ];then
74         sudo touch $MCPATH/MSL/screen-ls.temp
75     fi
76     sudo echo screen -ls > $MCPATH/MSL/screen-ls.temp
77     if pgrep -f $SERVICE > /dev/null
78     then
79         log_info "服务器已在运行,无需再次启动" && exit 1
80     elif (( `grep -o '$SCREENNAME' $MCPATH/MSL/screen-ls.temp |wc -l` >= 1 ))
81     then
82         log_info "服务器screen已在运行,无需再次启动" && exit 1
83     else
84         log_info "服务器不在运行,可启动服务器"
85     fi
86     log_info "准备启动服务器"
87     sudo touch $MCPATH/MSL/start.sh && sudo chmod 777 $MCPATH/MSL/start.sh
88     log_info "启动参数为: $INVOCATION"
89     echo $INVOCATION > $MCPATH/MSL/start.sh
90     log_info "完成启动脚本输出到$MCPATH/MSL/start.sh"
91
92     screen -dmS $SCREENNAME
93     log_info "开启窗口$SCREENNAME"
94     screen -x $SCREENNAME -X stuff "$MCPATH/MSL/start.sh\n"
95     log_info "窗口启动完成,开服指令下达"
96     sleep 5
97     if pgrep -f $SERVICE > /dev/null
98     then
99         log_info "服务器运行成功"
100     else
101         log_error "服务器启动失败"
102     fi
103 }
104
105 #####
106 #####          停止          #####
107 #####
108 #####
109 mc_stop(){
110     if [ pgrep -f $SERVICE > /dev/null && `grep -o '$SCREENNAME'
111         $MCPATH/MSL/screen-ls.temp |wc -l` >= 1 ]
112     then
113         log_info "检测到服务器已启动,可执行关服程序"
114         screen -x $SCREENNAME -X stuff "say
115         服务器准备在10s后关闭(或重启),请移动到安全位置并拾起重要的掉落物品.\n"
116         log_info "已在服务器中输出关服准备公告"
117         sleep 10
118         screen -x $SCREENNAME -X stuff "save-all\n"
119         screen -x $SCREENNAME -X stuff "stop\n"
120     else
121         log_info "服务器未启动,不用关服"
122     fi
123 }
124
125 #####
126 #####          状态          #####
127 #####
128 mc-status(){
129     if pgrep -f $SERVICE > /dev/null
130     then
131         log_info "服务器已在运行,无需再次启动" && exit 1
132     elif (( `grep -o '$SCREENNAME' $MCPATH/MSL/screen-ls.temp |wc -l` >= 1 ))
133     then
134         log_info "服务器screen已在运行,无需再次启动" && exit 1
135     else
136         log_info "服务器不在运行,可启动服务器"
137     fi
138 }

```

```

138 screen-ls(){
139     SCREENLS=$(sudo ls /run/screen/S-`whoami`)
140     echo $SCREENLS > $MCPATH/MSL/screen-ls.temp
141     log_info "查看screen数量"
142     cat -n $MCPATH/MSL/screen-ls.temp
143     grep -o '$SCREENNAME' $MCPATH/MSL/screen-ls.temp |wc -l
144 }
145
146 #####
147 #####      选项      #####
148 #####
149 case "$1" in
150     start)
151         mc_start
152         ;;
153     stop)
154         mc_stop
155         ;;
156     useradd)
157         log_info "添加用户$2"
158         sudo useradd -s /bin/bash -d $MCPATH -m $2 && sudo passwd $2
159         ;;
160     status)
161         mc-status
162         ;;
163     screen-ls)
164         screen-ls
165         ;;
166     *)
167         echo "可用选项: $0
168         {start|stop|update|backup|status|restart|useradd|screen-ls|command \"服务器指令
169         \n 建议开启一个screen运行本程序\"}"
170         exit 1
171         ;;
172     esac
173
174 exit 0

```