

Mehdi's Blog

This site is all about my experiences in computer science (mostly Linux , J2EE & Oracle)

How to create a Linux Service

Posted on January 23, 2011 by admin

In this post I'm going to tell you how can you create a Linux service like what you have in windows to easily stop|start|restart it or even put it start on Linux start up to start automaticly

1- make a folder

for example:

```
mkdir /root/scripts
```

2- write your start up script

for example :

```
# this is a simple startup
# and will be saved as startup.sh in the system
echo my service is starting
echo done starting my service
```

save the above as an shell scrip file

for example: **/root/scripts/startup.sh**

3- write the stop script

for example:

```
# this is a simple shutdown
# and will be saved as shutdown.sh in the system
echo my service is shutting down
echo done shutting down my service
```

save the above as an shell scrip file

for example: **/root/scripts/shutdown.sh**

4- run the following command to change the access permission of your files:

```
chmod 775 /root/scripts/*
```

5-create a log location to save your service log

for example

```
mkdir /var/log/myservice
```

6- go to directory **/etc/init.d** and create a file with **no extension**
"your service name"

for example

```
cd /etc/init.d  
gedit myservice
```

and paste following to your service file

```
#!/bin/sh  
#  
#  
#  
# chkconfig: - 98 02  
# description: This is a daemon for automatically  
# start my service  
#  
# processname: myservice  
#  
#  
  
prefix=/usr  
exec_prefix=/usr  
sbindir=/usr/sbin  
SCRIPT_BASE=/root/scripts  
SCRIPT_LOG_LOCATION=/var/log/myservice  
START_UP_LOG=${SCRIPT_LOG_LOCATION}/startup  
SHUT_DOWN_LOG=${SCRIPT_LOG_LOCATION}/shutdown  
# Sanity checks.  
  
# so we can rearrange this easily  
  
RETVAL=0  
  
start()  
{  
echo "Starting my service "  
echo " log location is:" ${START_UP_LOG}  
${SCRIPT_BASE}/startup.sh>>${START_UP_LOG}  
echo "Done starting my service! "  
}  
  
stop()  
{  
  
echo "Stopping my service "  
echo " log location is:" ${SHUT_DOWN_LOG}  
${SCRIPT_BASE}/startup.sh>>${SHUT_DOWN_LOG}  
echo "Done stopping my service! "  
}
```

```

# See how we were called.
case "$1" in
start)
start
;;
stop)
stop
;;
status)
status -p $pidfile $processname
RETVAL=$?
;;
restart)
stop
start
;;
condrestart)
if [ -f /var/lock/subsys/$servicename ]; then
stop
start
fi
;;
*)
echo $"Usage: $0 {start|stop|status|restart|condrestart}"
;;
esac
exit $RETVAL

```

and save it

7- run following command

```
chmod 775 /etc/init.d/myservice
```

8- run following command to define your service

```
chkconfig --add myservice
```

and now you have a service with name **myservice**

to test it

run following commands and check the log files at **/var/log/myservice**

```
service myservice start
```

```
service myservice restart
```

```
service myservice stop
```

9- (Optiona) if you want your service to start at system start up run following command

```
chkconfig myservice on
```

finally: you can remove your service from start up with command

[chkconfig myservice off](#)

and also you can delete your service with command

[chkconfig --del myservice](#)

Note: these command are tested on Red hat linux 5.0.3 and should work as well on other version and distributions like Centos and unbreakable linux

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3 Responses to *How to create a Linux Service*



[amir](#) says:

January 24, 2011 at 6:05 am

Good job Mehdi. Looking forward for next articles.

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admin says:

January 24, 2011 at 6:09 am

Thanks Amir!

[Reply](#)



[Healthy recipes](#) says:

June 19, 2011 at 8:52 pm

I have a problem with the overall premise of your article but I still think its really informative. I really like your other posts. Keep up the great work. If you can add more video and pictures can be much better. Because they help much clear understanding. thanks

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