

# Start Tomcat and Apache at Boot Time

Make sure there is a valid user "tomcat" and that this user has rw permissions in the \$CATALINA\_HOME/conf and \$CATALINA\_HOME/logs directories. Also make sure that \$JAVA\_HOME is set. You will start Tomcat as user "tomcat" to avoid running it as root. The Apache server is started as root because it uses port 80 (lower than 1024) but it spawns processes that run as "nobody".

Save the following scripts as /etc/init.d/tomcat and /etc/init.d/apache. They will automatically be read and run at boot time. Check the log files if it does not start properly.

Make a link to it from /etc/rc5.d such as:

```
cd /etc/rc5.d
sudo ln -s ../init.d/tomcat S71tomcat
sudo ln -s ../init.d/apache S72apache
```

```
----- /etc/init.d/tomcat -----
#!/bin/bash
#
# tomcat
#
# chkconfig:
# description:  Start up the Tomcat servlet engine.

# Source function library.
. /etc/init.d/functions

RETVAL=$?
CATALINA_HOME="/usr/apps/apache/tomcat/jakarta-tomcat-4.0.4"

case "$1" in
  start)
    if [ -f $CATALINA_HOME/bin/startup.sh ];
    then
      echo $"Starting Tomcat"
      /bin/su tomcat $CATALINA_HOME/bin/startup.sh
    fi
    ;;
  stop)
    if [ -f $CATALINA_HOME/bin/shutdown.sh ];
    then
      echo $"Stopping Tomcat"
      /bin/su tomcat $CATALINA_HOME/bin/shutdown.sh
    fi
    ;;
  *)
    echo $"Usage: $0 {start|stop}"
    exit 1
    ;;
esac

exit $RETVAL
----- end of /etc/init.d/tomcat -----
```

```
----- /etc/init.d/apache -----
#!/bin/bash
#
# apache
#
# chkconfig:
```

```
# description:  Start up the Apache web server.
```

```
# Source function library.
```

```
. /etc/init.d/functions
```

```
RETVAL=$?
```

```
APACHE_HOME="/usr/apps/apache/apache"
```

```
case "$1" in
```

```
start)
```

```
    if [ -f $APACHE_HOME/bin/apachectl ]; then
```

```
        echo "Starting Apache"
```

```
        $APACHE_HOME/bin/apachectl start
```

```
    fi
```

```
    ;;
```

```
stop)
```

```
    if [ -f $APACHE_HOME/bin/apachectl ]; then
```

```
        echo "Stopping Apache"
```

```
        $APACHE_HOME/bin/apachectl stop
```

```
    fi
```

```
    ;;
```

```
*)
```

```
    echo "Usage: $0 {start|stop}"
```

```
    exit 1
```

```
    ;;
```

```
esac
```

```
exit $RETVAL
```

```
----- end of /etc/init.d/apache -----
```

These instructions were tested by [Matt Raible](#) on Red Hat Linux 7.3 with Apache 2.0.42 and Tomcat 4.0.5.

