

1. **tomcat** ?

1. JVM -Xms<size> JVM -Xmx<size> JVM

80% catalina.bat JAVA\_OPTS='-Xms256m -Xmx512m'

256MB 512MB

2. DNS

web IP

IP DNS

IP DNS

DNS server.xml enableLookups

Tomcat4

```
<Connector className="org.apache.coyote.tomcat4.CoyoteConnector" port="80"
minProcessors="5" maxProcessors="75" enableLookups="false" redirectPort="8443"
acceptCount="100" debug="0" connectionTimeout="20000"
useURValidationHack="false" disableUploadTimeout="true" />
```

Tomcat5

```
<Connector port="80" maxThreads="150" minSpareThreads="25"
maxSpareThreads="75" enableLookups="false" redirectPort="8443"
acceptCount="100" debug="0" connectionTimeout="20000"
disableUploadTimeout="true"/>
```

3.

Connector

Tomcat

Java

CPU

Tomcat4

minProcessors

maxProcessors

minProcessors

5

1

5

maxProcessors

maxProcessors

web server

Windows 2000

Linux 1000

Tomcat5

maxThreads Tomcat

Tomcat

acceptCount

connnectionTimeout	0		
	30000		
minSpareThreads	Tomcat		
maxSpareThreads	Tomcat	socket	
			web

2. tomcat

tomcat	server.xml	<Connector />	
minProcessors			10
maxProcessors			75
acceptCount		maxProcessors	100
enableLookups	true	false	false
connectionTimeout		0	
	30000		
	maxProcessors	acceptCount	

web server

Windows 2000

Linux 1000 tomcat5

```
<Connector port="8080"
```

```
    maxThreads="150" minSpareThreads="25" maxSpareThreads="75"
```

```
    enableLookups="false" redirectPort="8443" acceptCount="100"
```

```
    debug="0" connectionTimeout="20000"
```

```
    disableUploadTimeout="true" />
```

### 3. tomcat

```
{tomcat_home}/conf/web.xml    listings    false
```

```
<init-param>
```

```
<param-name>listings</param-name>
```

```
<param-value>>false</param-value>
```

```
</init-param>
```

```
<init-param>
```

```
<param-name>listings</param-name>
```

<param-value>>false</param-value>

</init-param>

4. tomcat

java.lang.OutOfMemoryError: Java heap space  
JAVA

1

Heap size  
TOMCAT\_HOME/bin/catalina.sh  
set JAVA\_OPTS= -Xms32m -Xmx512m

2 java -Xms32m -Xmx800m className  
JAVA className

Eclipse Eclipse ->run -arguments VM arguments  
-Xms32m -Xmx800m

Eclipse VM arguments -Xms32m -Xmx800m

java.lang.OutOfMemoryError: PermGen space

PermGen space Permanent Generation space,  
JVM Class Meta ,Class Loader PermGen space ,  
(Instance) Heap ,GC(Garbage Collection)

PermGen space CLASS , PermGen space

, web JSP pre compile WEB APP

jar,  
jvm (4M)  
MaxPermSize

TOMCAT\_HOME/bin/catalina.sh  
echo "Using CATALINA\_BASE: \$CATALINA\_BASE"  
JAVA\_OPTS="-server -XX:PermSize=64M -XX:MaxPermSize=128m  
jar tomcat/shared/lib jar

java.lang.OutOfMemoryError: Java heap space

Heap size

JVM                    java                    JVM                    .JVM

Heap size

( -Xms)                    1/64                    (-Xmx)                    1/4                    JVM                    -Xmn

-Xms -Xmx

Heap size

Young Generation

Tenured Generaion

JVM                    98

GC

Heap size                    2

Heap Size

80

-Xms                    -Xmx

-

Xmn                    1/4                    -Xmx

Heap size

TOMCAT\_HOME/bin/catalina.sh

~~echo~~ "Using CATALINA\_BASE: \$CATALINA\_BASE"

JAVA\_OPTS="-server -Xms800m -Xmx800m -XX:MaxNewSize=256m"

1G

java jvm

JAVA\_OPTS="-server -Xms800m -Xmx800m -XX:PermSize=64M -XX:MaxNewSize=256m -

XX:MaxPermSize=128m -Djava.awt.headless=true "

web

tomcat

myeclipse

tomcat

tomcat

TOMCAT\_HOME/bin/catalina.bat

set JAVA\_OPTS=-server -Xms2048m -Xmx4096m -XX:PermSize=512M -  
XX:MaxPermSize=1024M -Duser.timezone=GMT+08

set JAVA\_OPTS= -Xmx1024M -Xms512M -XX:MaxPermSize=256m

myeclipse

Myeclipse->preferences->myeclipse->servers->tomcat->tomcat ~~JDK~~

Optional Java VM arguments                    -Xmx1024M -Xms512M -XX:MaxPermSize=256m

myeclipse

Tomcat

"ava.lang.OutOfMemoryError:

Java heap space"

Myeclipse->preferences->myeclipse->servers->tomcat->tomcat ~~JDK~~

Optional Java VM arguments                    -Xmx1024M -Xms512M -XX:MaxPermSize=256m

5.Tomcat

tomcat

tomcat      conf                  server.xml      <host/>

<Context path="/hello"

docBase="D:/eclipse3.2.2/forwebtoolsworkspacehello/WebRoot" debug="0"

privileged="true">

</Context>

Context

web                          webapps

conf                          Catalina                          localhost

xml    xml

<Context path="/hello" docBase="D:/eclipse3.2.2/forwebtoolsworkspacehello/WebRoot"

debug="0" privileged="true">

</Context>

3                                  path                          URL

XML

2   3

∴

tomcat , tomcat , war

## 6.Tomcat

Tomcat Web

:

web.xml jsp Servlet

tomcat jvm

CPU

o CPU

o -

Xmx -Xms -XX:MaxPermSize

full GC

o

Nginx

css js

tomcat

gzip

tomcat

Nginx

gzip

300

kb

kb

tomcat

Nginx

tomcat

session

nginx+tomcat+memcached

web

tomcat

tomcat7

conf/server.xml

dns

```
<Connector port="8080"
```

```
protocol="org.apache.coyote.http11.Http11NioProtocol"
```

```
connectionTimeout="20000"
```

```
redirectPort="8443"
```

```
maxThreads="500"
```

```
minSpareThreads="20"
```

```
acceptCount="100"
```

```
disableUploadTimeout="true"
```

```
enableLookups="false"
```

```
URIEncoding="UTF-8" />
```

