

Tomcat

tomcat instance 분리

0. bash_profile 적용

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```
##### alias #####
alias status=/home/alan/script/status.sh
alias webd=/home/alan/script/webdwarf.sh
alias goweb='cd /app/apache24/bin'
alias goweblog='cd /logs/weblog/service'
alias gowas='cd /app/tomcat8/tomcat-engine'
alias gowaslog='cd /logs/waslog/instance'

#### HYUNSU 20190313 #####
alias XXXstart='/app/tomcat8/tomcat-engine/launcher XXX int_XXX1 -Xmx1024m -'
alias XXXstop='/app/tomcat8/tomcat-engine/launcher XXX int_XXX1 -Xmx1024m -'
alias goXXX='cd /app/tomcat8/instance/XXX'
alias goXXXweb='cd /app/homeplus/webapps-XXX'
alias goXXXlog='cd /logs/waslog/instance/XXX'
```

1. 폴더생성

- /app/tomcat8/instance/XXX 생성 자리수는 3자리 정의

2. 인스턴스 복제

- /app/tomcat8/tomcat-engine에서 cp -Rf ./conf ./temp ./work /app/tomcat8/instance/XXX

3. logs, webapps 심볼릭 링크만들기

- ln -s /logs/waslog/instance/adm logs ln -s /app/homeplus/webapps-adm webapps

4. webapps 파일 복사

- cp -Rf /app/homeplus/webapps/* /app/homeplus/webapps-adm

5. catalina.properties 수정

- cp catalina.properties catalina.properties.20190227 logs.dir 변경 추가 : logs.dir=/logs/waslog/instance/XXX

5. context.xml 변경

- cp context.xml context.xml.20190227 PC 관리자 사례

```

<!-- ##### context.xml 2019.02.27 hsuryu (IBM) -->
    <ResourceLink name="jdbc/cosadm" global="jdbc/cosadm" type="javax.s
<!-- ##### context.xml 2019.02.27 hsuryu (IBM) -->

```

6. server.xml 변경 포트를 설정에 따라 모두 변경한다.

- cp server.xml server.xml.20190227
- server port : 8005 --> 8105
- Connector port : 8080 --> 8180 (http port), redirectPort port : 8443 --> 8143
- AJP/1.3 port : 8009 --> 8109, redirectPort 8443 --> 8143
- <Connector 에 connectionTimeout="20000" 추가
- <Engine name="Catalina" defaultHost="localhost">
 - --> <Engine name="Catalina" defaultHost="localhost" jvmRoute="node1"> : 웹서버 loadbalancer 설정 참조
- Datasource 설정 context.xml 설정 참조
 -

```

<GlobalNamingResources>
<!-- Editable user database that can also be used by
    UserDatabaseRealm to authenticate users
-->
<!-- ##### 2019.02.27 hsuryu IBM Added ##### -->
    <Resource auth="Container"
        name="jdbc/cosadm"
        driverClassName="oracle.jdbc.driver.OracleDriver"
        username="cosadm"
        password="cos0515adm"
        url="jdbc:oracle:thin:@10.10.36.129:1521/COSTST"
        maxIdle="1"
        maxTotal="3"
        maxWaitMillis="10000"
        type="javax.sql.DataSource"
        validationQuery="SELECT 1 FROM DUAL" />
<!-- ##### -->

    <Resource name="UserDatabase" auth="Container"
        type="org.apache.catalina.UserDatabase"
        description="User database that can be updated
        factory="org.apache.catalina.users.MemoryUserDa
        pathname="conf/tomcat-users.xml" />

</GlobalNamingResources>

```

7. tomcat-users.xml admin 사용자 추가

- cp tomcat-users.xml tomcat-users.xml.20190227

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```

<role rolename="manager-gui"/>
<role rolename="manager-script"/>
<role rolename="manager-jmx"/>
<role rolename="manager-status"/>
<role rolename="admin-gui"/>
<role rolename="admin-script"/>
<user username="tomcat" password="tomcatadm@#" roles="manager-gui,manager-script,

```

8. /manager 적용 (선택적 적용, 비추천)

- goXXXweb - .../webapps-xxx/manager/META-INF의 context.xml의 주석 처리
<!-- <Valve className="org.apache.catalina.valves.RemoteAddrValve"
◦ allow="127\.\d+\.\d+\.\d+|::1|0:0:0:0:0:0:1" />
-->

tomcat 인증서 설치

```
4016 2019-04-05 14:38:38 cd /app/apache24/conf/ssl/
4028 2019-04-05 14:44:04 cat Wildcard.homeplus.co.kr.key Wildcard.homeplus.co.kr.crt
4029 2019-04-05 14:44:07 openssl pkcs12 -export -out tomcat20190405.p12 -in tomcat2019
4031 2019-04-05 14:44:39 vi tomcat20190405.pem <-- 개행 수정
4032 2019-04-05 14:45:06 openssl pkcs12 -export -out tomcat20190405.p12 -in tomcat2019
4035 2019-04-05 14:47:23 keytool -importkeystore -srckeystore tomcat20190405.p12 -srce
4037 2019-04-05 14:48:26 keytool -list -keystore tomcat20190405.jks <-- 점검
4040 2019-04-05 14:49:57 vi server.xml
    <Connector port="8143" scheme="https" secure="true"
      enableLookups="false" disableUploadTimeout="true" SSLEnabled="true"
      clientAuth="false"
      keystoreFile="/app/apache24/conf/ssl/tomcat20190405.jks" keystorePass="tomcatadm
      sslProtocol="TLS"
    />
4041 2019-04-05 14:54:31 prdstop
4042 2019-04-05 14:54:38 prdstart
4043 2019-04-05 14:54:45 ps -ef | grep java
4046 2019-04-05 14:57:43 netstat -ant | grep 8143
```

tomcat instance stop

```
#!/bin/sh

echo
echo '##### START Waiting for tomcat instance stop #####'
echo
TPATH=/app/tomcat8/tomcat-engine/bin/bootstrap.jar

TOMCAT_USER=alan
WAITINGTIME=60 # Total waiting 60 second
KILL15TIME=30 # Total waiting 60 second
KILL15STATUS=0 # STATUS 1 after kill -15 process
INSTID=$1
SLEEPTIME=2 # sleep 2 second
cnt=1

for (( i=0; i < $WAITINGTIME; i++ ))
do
    sleep $SLEEPTIME
    #echo " " $i " , " $cnt " !"
    runinst=$(ps -ef | grep java | grep -v grep | grep $INSTID | awk {'print $2 $16'})

    UNAME=`id -u -n`

    if [ e$UNAME != "e$TOMCAT_USER" ]
    then
        echo "[ Use by only user Account [ $TOMCAT_USER ] Start Fail Tomcat Inst
        exit;
    fi
```

```

if [[ $KILL15TIME -le $cnt && $KILL15STATUS != 1 ]]
then
    echo "Kill -15 tomcat process [$1]"
    runprocessid=$(ps -ef | grep java | grep -v grep | grep $INSTID | awk {
    echo 'Kill -15 tomcat instance process id = '$runprocessid
    #echo "##### KILL -15 PROCESS #####"
    kill -15 $runprocessid
    KILL15STATUS=1

fi

if [ $WAITINGTIME -le $cnt ]
then
    echo "Kill -9 tomcat process [$1]"
    runprocessid=$(ps -ef | grep java | grep -v grep | grep $INSTID | awk {
    echo 'Kill -9 tomcat instance process id = '$runprocessid
    #echo "##### KILL -9 PROCESS #####"
    kill -9 $runprocessid
    sleep 5
    break

fi

if [ -z "$runinst" ]; then
    echo [$cnt sec]"Stoped Tomcat Instance [$1] $runinst"
    break
else
    echo [$cnt sec]"Running Tomcat Instance [$1][$INSTID] $runinst"
fi

let cnt=cnt+$SLEEPTIME
done

instcount=$(ps -ef | grep java | grep -v grep | grep $INSTID | awk {'print $2 $16'} | wc
echo "======"
echo " Tomcat $INSTID Instance STOP "
echo "======"
echo " Instance Running Count = "$instcount
echo "======"

echo
echo '##### END Waiting for tomcat instance stop #####'
echo
echo

```

🕒Revision #1

★Created 2023-05-31 14:24:54 UTC by Hyeon Su Ryu

✍Updated 2023-05-31 14:31:41 UTC by Hyeon Su Ryu