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GridSite Test Plan

Prerequisites

```
yum -y install httpd mod_ssl
```

Workarounds for mod_ssl (see <https://savannah.cern.ch/bugs/?48458>):

```
yum -y install dummy-ca-certs
```

Start Apache with the GridSite module enabled:

```
sed -e '1,$s!/usr/lib/httpd/modules/!modules/!' /usr/share/doc/gridsite-*/httpd-webserver.conf |
echo "AddHandler cgi-script .cgi" >> /tmp/httpd-webserver.conf
echo "ScriptAlias /gridsite-delegation.cgi /usr/sbin/gridsite-delegation.cgi" >> /tmp/httpd-webse
mkdir /var/www/htdocs
httpd -f /tmp/httpd-webserver.conf
```

'Service ping test'

Basic tests verifying that the service is up and running:

- gridsite-test-ping-local.sh - Test installation on a local machine (processes running, ports listening, modules loaded, etc.).
- gridsite-test-ping-remote.sh - Test the GridSite availability remotely (ports open, WS delegation ping (?))

```
./ping-remote.sh `hostname -f`
./ping-local.sh -f /tmp/httpd-webserver.conf
```

Functionality tests

Basic access control test. First check that the server is closed, then specify a policy and check that it opened the access. Repeat for reading (HTTP GET), writing (HTTP PUT) and removal (HTTP DELETE).

READ (Read Permissions)

```
cat >/var/www/htdocs/test.html <<EOF
<html><body><h1>Hello Grid</h1></body></html>
EOF
code=`curl --cert /etc/grid-security/hostcert.pem --key /etc/grid-security/hostkey.pem --capath /
[ "$code" = "403" ] && echo "OK"

cat >/var/www/htdocs/.gacl <<EOF
<gacl>
  <entry>
    <any-user/>
    <allow><read/></allow>
  </entry>
</gacl>
EOF

code=`curl --cert /etc/grid-security/hostcert.pem --key /etc/grid-security/hostkey.pem --capath /
[ "$code" = "200" ] && echo "OK"
```

Get index (list & read permissions)

```
code=`curl --cert /etc/grid-security/hostcert.pem --key /etc/grid-security/hostkey.pem --capath /
https://$(hostname -f)/`
```

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```
[ "$code" = "403" ] && echo "OK"
```

```
cat >/var/www/htdocs/.gacl <<EOF
```

```
<gacl>
  <entry>
    <person>
      <dn>`openssl x509 -noout -subject -in /etc/grid-security/hostcert.pem | sed -e 's/^subject=
    </person>
    <allow><read/><list/></allow>
  </entry>
</gacl>
EOF
```

```
code=`curl --cert /etc/grid-security/hostcert.pem --key /etc/grid-security/hostkey.pem --capath /
https://$(hostname -f)`
```

```
[ "$code" = "200" ] && echo "OK"
```

WRITE & DELETE (write permissions)

```
rm -f /var/www/htdocs/.gacl /var/www/htdocs/test.txt
```

```
date > /tmp/test.txt
```

```
chown apache /var/www/htdocs/
```

```
code=`curl --cert /etc/grid-security/hostcert.pem --key /etc/grid-security/hostkey.pem --capath /
--upload-file /tmp/test.txt https://$(hostname -f)/test.txt`
```

```
[ "$code" = "403" ] && echo "OK"
```

```
cat >/var/www/htdocs/.gacl <<EOF
```

```
<gacl>
  <entry>
    <person>
      <dn>`openssl x509 -noout -subject -in /etc/grid-security/hostcert.pem | sed -e 's/^subject=
    </person>
    <allow><write/></allow>
  </entry>
</gacl>
EOF
```

```
code=`curl --cert /etc/grid-security/hostcert.pem --key /etc/grid-security/hostkey.pem --capath /
--upload-file /tmp/test.txt https://$(hostname -f)/test.txt`
```

```
cmp -s /tmp/test.txt /var/www/htdocs/test.txt
```

```
[ $? -eq 0 -a "$code" = "201" ] && echo "OK"
```

```
mv /var/www/htdocs/.gacl /var/www/htdocs/.gacl.bak
```

```
code=`curl --cert /etc/grid-security/hostcert.pem --key /etc/grid-security/hostkey.pem --capath /
-X DELETE https://$(hostname -f)/test.txt`
```

```
[ "$code" = "403" ] && echo "OK"
```

```
mv /var/www/htdocs/.gacl.bak /var/www/htdocs/.gacl
```

```
code=`curl --cert /etc/grid-security/hostcert.pem --key /etc/grid-security/hostkey.pem --capath /
-X DELETE https://$(hostname -f)/test.txt`
```

```
[ "$code" = "200" ] && echo "OK"
```

```
chown root /var/www/htdocs
```

XXX Repeat the tests with particular VOMS attributes. Try also longer proxy chains

Check the attributes and passed on to the environment

```
cat >/var/www/htdocs/.gacl <<EOF
```

```
<gacl>
  <entry>
    <person>
      <dn>`openssl x509 -noout -subject -in /etc/grid-security/hostcert.pem | sed -e 's/^subject=
    </person>
    <allow><read/></allow>
  </entry>
```

Get index (list & read permissions)

```

</gacl>
EOF
cat >/var/www/htdocs/test.cgi <<EOF
#!/bin/sh
echo 'Content-type: text/plain'
echo
printenv
EOF
chmod +x /var/www/htdocs/test.cgi
code=`curl --cert /etc/grid-security/hostcert.pem --key /etc/grid-security/hostkey.pem --capath /
[ "$code" = "200" ] && echo "OK"
grep "^GRST_" /tmp/gridsite.log 2>/dev/null
[ $? -eq 0 ] && echo "OK"

```

Test the basic commands (htcp, htls, htmkdir, htmv, htrm)

```

cat >/var/www/htdocs/.gacl <<EOF
<gacl>
  <entry>
    <person>
      <dn>`openssl x509 -noout -subject -in /etc/grid-security/hostcert.pem | sed -e 's/^subject=
    </person>
    <allow><read/><write/><list/></allow>
  </entry>
</gacl>
EOF

chown apache /var/www/htdocs/

date > /tmp/test.txt
htcp --cert /etc/grid-security/hostcert.pem --key /etc/grid-security/hostkey.pem --capath /etc/gr
[ $? -eq 0 ] && echo "OK"
htls --cert /etc/grid-security/hostcert.pem --key /etc/grid-security/hostkey.pem --capath /etc/gr
[ $? -eq 0 ] && echo "OK"
htmv --cert /etc/grid-security/hostcert.pem --key /etc/grid-security/hostkey.pem --capath /etc/gr
[ $? -eq 0 ] && echo "OK"
htcp --cert /etc/grid-security/hostcert.pem --key /etc/grid-security/hostkey.pem --capath /etc/gr
[ $? -eq 0 ] && echo "OK"
htrm --cert /etc/grid-security/hostcert.pem --key /etc/grid-security/hostkey.pem --capath /etc/gr
[ $? -eq 0 ] && echo "OK"
htls --cert /etc/grid-security/hostcert.pem --key /etc/grid-security/hostkey.pem --capath /etc/gr
[ $? -eq 22 ] && echo "OK"
htls --cert /etc/grid-security/hostcert.pem --key /etc/grid-security/hostkey.pem --capath /etc/gr
[ $? -eq 0 ] && echo "OK"
cmp /tmp/test.txt /tmp/test2.txt
[ $? -eq 0 ] && echo "OK"

chown root /var/www/htdocs/

```

Test proxy delegation (see also DelegationTestPlan) (XXX Disable the gridsite module?)

```

mkdir /var/www/proxycache
chown apache /var/www/proxycache

#delegation
id=`htproxyput --cert /etc/grid-security/hostcert.pem --key /etc/grid-security/hostkey.pem --capa
[ $? -eq 0 -a -n "$id" ] && echo OK

expiry=`htproxyunixtime --cert /etc/grid-security/hostcert.pem --key /etc/grid-security/hostkey.p

newid=`htproxyrenew --cert /etc/grid-security/hostcert.pem --key /etc/grid-security/hostkey.pem -
[ $? -eq 0 -a -n "$newid" ] && echo OK

htproxydestroy --cert /etc/grid-security/hostcert.pem --key /etc/grid-security/hostkey.pem --capa

```

-- DanielKouril - 24-Sep-2010

This topic: EGEE > GridSiteTestPlan

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