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Notes on the Jenkins Configuration [OBSOLETE]

A Jenkins build system has been installed and configured for the LHCb Nightly builds, at the following address:

<https://buildlhcb.cern.ch/jenkins>

It consists of an Apache Tomcat5 server, running the Jenkins Web application, behind an Apache HTTP server.

Authentication is done using the CERN Single-Sign-On service, via an apache module. Read access is limited to "lhcb-general" egroup.

Apache configuration

The system http server is used, and several configurations can be found in `/etc/httpd/conf.d/build.conf`

The server takes all requests for Jenkins via HTTPS, the CDash requests are served via HTTP:

```
<VirtualHost *:80>
    RewriteEngine on
    RewriteCond %{SERVER_PORT} !^443$
    RewriteCond %{REQUEST_URI} !^/CDash/submit.php$
    RewriteRule ^/(.*) https://%{HTTP_HOST}/$1 [NC,R,L]
</VirtualHost>
```

The main features are that: The http server forwards the requests to tomcat via the AJP13 protocol, using the `mod_proxy_ajp` plugin, configured this way:

```
ProxyRequests Off
ProxyPass /jenkins ajp://localhost:8009/jenkins
ProxyPassReverse /jenkins ajp://localhost:8009/jenkins
```

Apache relies on Shibboleth (apache module + plugin) configured this way:

```
<Location /jenkins>
Order allow,deny
Allow from all
SSLRequireSSL # The modules only work using HTTPS
AuthType shibboleth
ShibRequireSession On
ShibRequireAll On
ShibExportAssertion On
ShibUseHeaders On
Require valid-user
Require ADFS_GROUP "lhcb-general"
</Location>
```

It would also be possible to authenticate the users using LDAP using for example:

```
<Location /test>
Order allow,deny
Allow from all
SSLRequireSSL # The modules only work using HTTPS
AuthName "LDAPTest"
# Authorization LDAP
AuthType Basic
AuthBasicProvider ldap
AuthLDAPURL "ldap://cerndc.cern.ch/dc=CERN,dc=CH?cn?sub?(objectClass=User)" SSL
```

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```
AuthLDAPBindDN          "CN=<service_account>,OU=Users,OU=Organic Units,DC=cern,DC=ch"  
AuthLDAPBindPassword    "<password>"  
AuthzLDAPAuthoritative  on  
require valid-user  
</Location>
```

One trick put in place is to logout from the SSO via the jenkins logout button:

```
<Location /jenkins/logout>  
Redirect /jenkins/logout https://login.cern.ch/adfs/ls/?wa=wsignout1.0  
</Location>
```

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