

ProxySupport

Problem Description

As of this writing (June 07 2005), the build process fails to download dependency files being behind firewall (proxy server).

Solution

However a small modification to <Grabber.java> and <dependency.xml> files circumvent this problem.

Grabber.java changes

We need to add support for configuring the following attributes **proxyHost**, **proxyPort**, **proxyUser** and **proxyPwd**.

The *setProxyHost()* method simply sets the "**http.proxyHost**" system property.

The *setProxyPort()* method simply sets the "**http.proxyPort**" system property.

The *setProxyUser()* and *setProxyPwd()* updates instance *_proxyUser* and *_proxyPwd* instance variables which are used in the *execute()* method to attach a "Proxy-Authorization" request property to the urlConnection:

```
...
try
{
    URLConnection connection = _src.openConnection();

    if (_proxyUser != null)
    {
        sun.misc.BASE64Encoder encoder = new sun.misc.BASE64Encoder();
        String encoded = encoder.encode(
            new String(_proxyUser + ":" + _proxyPwd).getBytes());
        connection.setRequestProperty("Proxy-Authorization", "Basic " + encoded);
    }

    connection.connect();

    copyConnectionToFile(connection);
}
catch (IOException ex)
{
    log("Failure accessing " + _src + ": " + ex.getMessage(), Project.MSG_ERR);
}

...
```

dependency.xml changes

the *grab-file* macro should define 4 additional attributes **proxyHost**, **proxyPort**, **proxyUser** and **proxyPwd** with configured defaults which may be empty properties in the dependency.properties file or ideally references user configurable properties !!

```
...
<macrodef name="grab-file">
<attribute name="src" description="The URL of the file to download."/>

<attribute name="dest" description="The directory and file to copy to."/>

<attribute name="proxyHost" default="${proxy.host}" description="The proxy hostname or ip address to used"/>

<attribute name="proxyPort" default="${proxy.port}" description="The proxy port to used"/>

<attribute name="proxyUser" default="${proxy.user}" description="The user used to log onto the proxy"/>

<attribute name="proxyPwd" default="${proxy.pwd}" description="The password used to log onto the proxy"/>

<sequential>

<mkdir dir="${hivebuild.classes.dir}"/>

<javac includeantruntime="yes"
srcdir="${hivebuild.src.dir}"
destdir="${hivebuild.classes.dir}"/>
```

```
<taskdef classname="org.apache.hivemind.build.Grabber" name="grabber" classpathref="grabber.classpath"/>
```

```
<grabber src="@{src}" dest="@{dest}" proxyHost="@{proxyHost}" proxyPort="@{proxyPort}"  
proxyUser="@{proxyUser}" proxyPwd="@{proxyPwd}"/>
```

```
</sequential>
```

```
</macrodef>
```

```
...
```