

Access remote system from ant script...



[Enrico Dittmann](#) 8 posts since

Feb 11, 2009

Hello *,

we have got an ant script which should access a remote system after building a java project to distribute it.

The target in our build.xml looks like this:

```
<!-- ===== Run deployment Target
===== -->
<target name="deployment" description="deploy project to test server">

    <!-- kill running test server on remote system -->
    <exec executable="cmd.exe">
        <arg line="/c taskkill /S ip.of.remote.system /U user_of_remote_system /P
password_of_remote_system /IM cmd.exe /T"/>
    </exec>

    <!-- build, unzip and other stuff -->
    [ ... ]

    <!-- delete old folders on test server-->
    <delete dir="${testserver.mappeddir}/${app.name}" />
    [ ... ]

    <!-- move folders to test server (name without version number) -->
    <move file="${tempdir}/${dist.name}" tofile="${testserver.mappeddir}/${app.name}"/>
```

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```
[ ... ]
```

```
<delete dir="${tempdir}" />
```

```
<!-- start test server -->
```

```
<exec executable="psexec.exe">
```

```
  <arg line="\ip.of.remote.system -d -i -u user_of_remote_system -p  
password_of_remote_system -w D:/Test-Server cmd /c &quot;1 Test-Server  
starten.lnk&quot;"/>
```

```
</exec>
```

```
</target>
```

`${testserver.mappeddir}` points to a folder on the remote system (is mapped as a network drive Z: on the build system). The network drive connection is established by an admin user on each startup/ logon. Running the script from command line within this user account works just fine but running it from TeamCity the build fails with the following error message:

```
[11:50:48]: [deployment] exec (38s)[11:51:26]: [exec] FEHLER: Anmeldung fehlgeschlagen: unbekannter  
Benutzername oder falsches Kennwort. [error: logon failed. unknown user or password - this is an error caused by  
the first exec command]
```

```
[11:51:26]: [exec] Result: 1[11:52:02]: [deploymentvistahro] move[11:52:02]: [move] Failed to copy C:\TeamCity  
\buildAgent\work\TestServer_DeploymentBuild\temp\TestServer-1.0.15\bin\lib\commons-cli-1.0.jar to Z:\TestServer  
\bin\lib\commons-cli-1.0.jar due to Z:\TestServer\bin\lib\commons-cli-1.0.jar (Das System kann den angegebenen  
Pfad nicht finden) [system can not locate given path]
```

It seems that TeamCity's Build service runs on the local system account and has no rights to access the remote system (or the mapped drive due to its establishment by a specific user). So we changed the service "TeamCity Build Agent Service" to run with the admin user which leads to another error message:

```
[11:57:06]: [deployment] exec[11:57:06]: [exec] Der Befehl "taskkill" ist entweder falsch geschrieben oder  
[exec] konnte nicht gefunden werden. [the commant "taskkill" either is written wrong or could not be located]
```

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```
[11:57:06]: [exec] Result: 1[11:57:45]: [deploymentvistahro] move[11:57:45]: [move] Failed to copy C:\TeamCity
\buildAgent\work\TestServer_DeploymentBuild\temp\TestServer-1.0.15\bin\lib\commons-cli-1.0.jar to Z:\TestServer
\bin\lib\commons-cli-1.0.jar due to Z:\TestServer\bin\lib\commons-cli-1.0.jar (Das System kann den angegebenen
Pfad nicht finden) [system can not locate given path]
```

Why it is possible to access the remote system while running the script from the command line but not from tc ant build runner? I can imagine that there could be problems using the network drive but I was sure the first exec command in the script should work in every scenario. Any suggestions?

Thanks in advance for help.

Regards Enrico

Tags: teamcity, remote, ant



[Pavel Sher](#) 2,081 posts since

Mar 6, 2008 1. **Re: Access remote system from ant script failes** Apr 21, 2009 8:49 PM

Windows service cannot access mapped network drives. This is limitation of Windows OS.

There are two workarounds:

- run agent via agent.bat
- use UNC paths to access network directories



[Enrico Dittmann](#) 8 posts since

Feb 11, 2009 2. **Re: Access remote system from ant script failes** Apr 22, 2009 1:20 PM

Problem solved.

I realised that I have to pass a domain to the user name (which simply is the ip of the remote system). Additionally I connect to network drive directly within the script. My final build.xml target looks like this:

```
<!-- ===== Run deployment Target
===== -->
<target name="deployment" description="deploy project to test server">

    <property name="ip" value="ip" />
    <property name="user" value="{ip}\TestServer" />
    <property name="pw" value="pw" />
```

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```
<property name="mappeddir" value="Z:" />

<!-- map network drive -->
<exec executable="cmd.exe">
  <arg line="/c if not exist ${mappeddir} net use ${mappeddir} \\${ip}\Test-Server
${pw} /USER:${user}"/>
</exec>

<!-- kill running test server on remote system -->
<exec executable="cmd.exe">
  <arg line="/c taskkill /S ${ip} /U ${user} /P ${pw} /IM cmd.exe /T"/>
</exec>

<!-- build, unzip and other stuff -->
[ ... ]

<!-- delete old folders on test server -->
<delete dir="${mappeddir}/${app.name}" />
[ ... ]

<!-- move folders to test server (name without version number) -->
<move file="${tempdir}/${dist.name}" tofile="${mappeddir}/${app.name}"/>
[ ... ]
<delete dir="${tempdir}" />

<!-- start test server -->
<exec executable="psexec.exe">
  <arg line="\\${ip} -d -i -u ${user} -p ${pw} -w D:/Test-Server/${app.name} cmd /c
server.bat"/>
</exec>
```

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```
<!-- disconnect network drive -->  
<exec executable="cmd.exe">  
  <arg line="/c if exist ${mappeddir} net use ${mappeddir} /delete"/>  
</exec>  
  
</target>
```

Astonishing - once you make it right it works 😊

@Pavel: Nevertheless thanks for your suggestions.

Regards

Enrico