Windows SVN Configuration

Windows 7 (64-bit) SVN Configuration

1. Download and install the 64-bit subversion command-line client from the [CollabNet Subversion Downloads](#) page. Initialize the client using the following command in a Windows command window:

```
svn --version
```

2. Download and install the 64-bit version of TortoiseSVN from the [TortoiseSVN - Downloads](#) page. This program provides **TortoisePlink.exe**, an SSH tunnel client used to support the **svn+ssh** protocol.
3. Edit the %APPDATA%\Subversion\config file to define the **ssh** and **editor-cmd** defaults to be used to access the code.b.e CalNet SVN repos.

```
[helpers]
editor-cmd = notepad.exe
[tunnels]
ssh = $SVN_SSH "C:/Program Files/TortoiseSVN/bin/TortoisePlink.exe"
```

> ⚠ Note the use of the forward slash ("/" symbol) in the path name instead of the normal Windows back slash ("\" symbol) separator which would need to be escaped as "\\" otherwise. This file can also be accessed from within the **TortoiseSVN Settings** program in the **General** section by using the **Edit** button for the **Subversion configuration file** item.

4. Finally, download **puttygen.exe**, and **pageant.exe** from the [PuTTY Download Page](#) and use puTTYgen to create an SSH2 keypair in PuTTY format, or to convert existing OpenSSH keys to PuTTY format. Use the Pageant SSH Agent program before using the svn clients to allow for caching the SSH2 private key for access by TortoisePlink and TortoiseSVN during subversion operations.

Use puTTYgen to save your SSH2 public key in OpenSSH format (all one line, no line breaks; see below for examples of this format) and use this same data at code.berkeley.edu on the **Manage Your SSH Public Keys** page. Then test your svn client configuration by loading your private key into Pageant and trying the following svn command:

```
svn list svn+ssh://svn@code.berkeley.edu/calnet-repos/calnet-code
```

You should see a list of the calnet-code projects.

> ⚠ If this is the first time connecting to code.b.e, TortoisePlink will prompt to store the host's SSH public key in the Windows registry before the svn command is completed.

Because it can use the same config file as the command-line svn client, no further networking configuration is needed for TortoiseSVN itself to connect to code.berkeley.edu to access the CalNet repos.

Examples of the OpenSSH public key format for use with code.b.e

Since code.b.e uses OpenSSH, the public keys must be in OpenSSH format, that is, all one line with no line breaks. The following are truncated examples for first an RSA and then a DSA public key:

```
ssh-rsa AAAAB3NzaC1yc2EAAAABJQAAAIEAqUipfkPQ...yslx8y3VPQHlTk8= "RSA public
key comment"
ssh-dss AAAAB3NzaC1kc3MAAACBAJno8mFgQlyYRt1Y...vAoYXIr93ZU+6w== "DSA public
key comment"
```