

## Quick Start Guide on setting up a SSH tunnel on Windows to access resources of the Institute of Computer Science

### Which resources and services can be used via a SSH tunnel?

- Service- and port-based access to the resources of the Institute of Computer Science
- File Transfer
- Mailservice
- Terminal Connection

### 1. Download

The required tools *putty.exe* (SSH client) and *plink.exe* (command line interface to putty) can be downloaded from the following Web page:

<http://www.chiark.greenend.org.uk/~sgtatham/putty/download.html>

Note: The tools are standalone software, i.e. installation is not necessary. The following guide is based on version 0.59.

### 2. Configuration

- Run *putty.exe*
- Setting up an SSH connection to the mediation server (Figure 1)
  - select Category „Session“ and enter the following details:

<i>Host name:</i>	honshu.informatik.uni-rostock.de
<i>Port:</i>	22
<i>Protocol:</i>	select SSH
<i>Saved sessions:</i>	assign a name for the session (e.g. xyz)

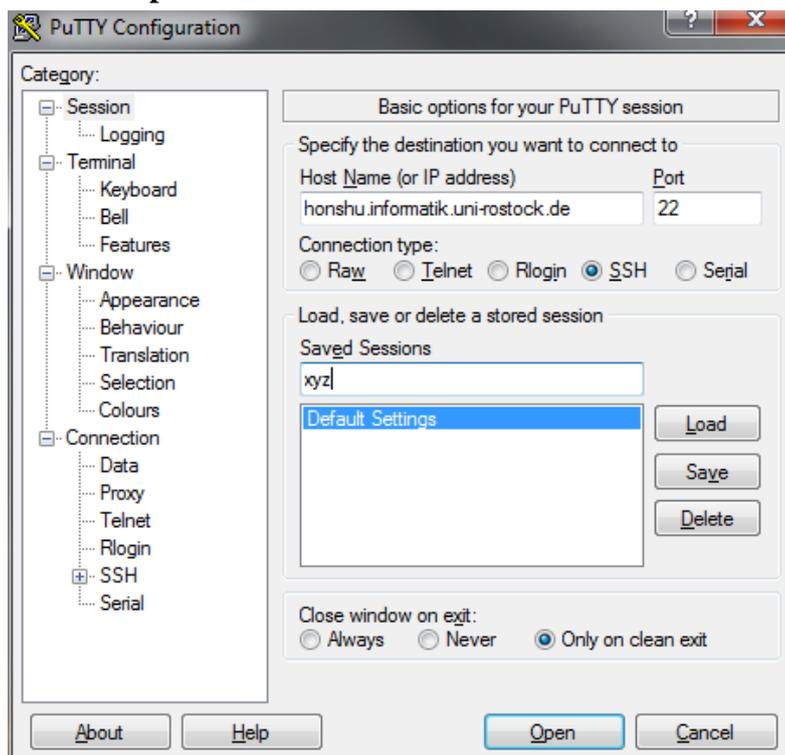


Figure 1 Settings in Category „Session“

- Setting up a SSH tunnel to the destination server (Figure 2)
  - Select Category „Tunnels“ (Connection → SSH → Tunnels) and enter the following details:
    - Source Port:* port on local host which is used to establish the connection  
  
(Here you must enter an unused value, values beyond 10000 have been proven non-critical.)
    - Destination:* server.domain:port  
  
 examples: port 25          SMTP  
               port 110         POP3  
               port 143         Imapmail  
               port 3389        Terminal Server
  - Check radio button „Local“
  - To add the entry confirm with „Add“

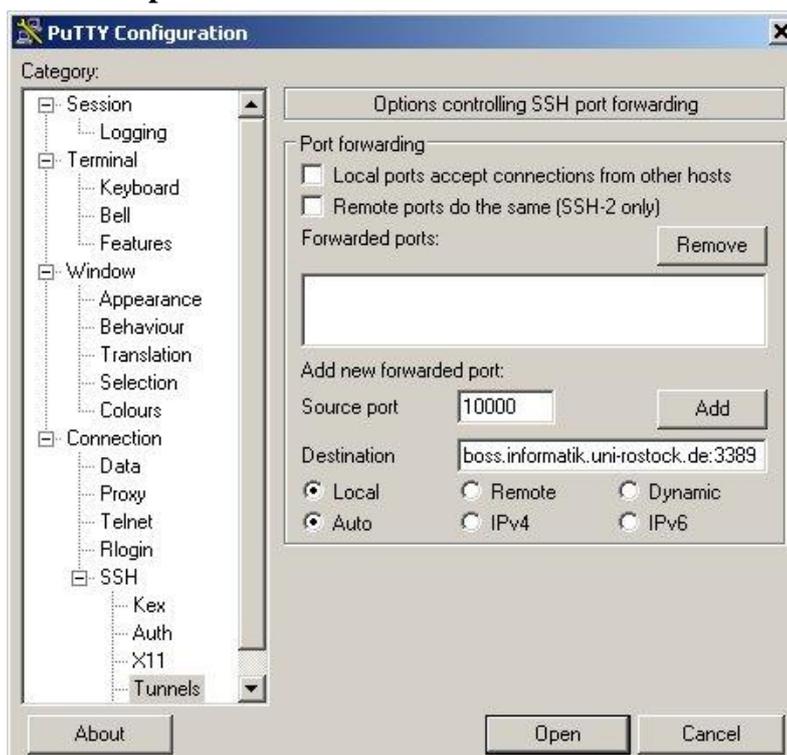


Figure 2 Tunnel from local port 10000 to the destination server `boss.informatik.uni-rostock.de` port 3389



Figure 3 State after tunnel configuration



Figure 4 Additional examples of port definition

- Save Session
  - Select Category „Session“
  - If no session name has been assigned so far please enter a name.
  - Click „Save“

### 3. Establish a connection

- Option 1: using putty
  - Run *putty.exe*
  - Select Category „Session“
  - Select appropriate session and click „Load“
  - Click „Open“ and sign in

- **Option 2: using plink**

- Run *plink.exe* with the following parameters and sign in:

*plink.exe -v -N -load name\_of\_tunnel\_session*

(see example: *plink.exe -v -N -load xyz*)

Note: Add *plink.exe* to your environment variable PATH beforehand or specify the full path to the executable. Alternatively, you can create a shortcut, right click (navigate to Properties → Shortcut → Target) and specify the path there.

#### 4. Further Information

- The application on the target machine must be able to use other than default ports.
- When using mail services you have to specify *localhost* in your mail-client both for SMTP (outgoing mail) and IMAP (incoming mail).
- Establishing a Remote desktop connection

Run *mstsc.exe* with following parameters:

*mstsc.exe /v:localhost:portnumber*

(see example: *mstsc.exe /v:localhost:10000*)

- **Contact**

In case you have any questions, please send an email to:

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