

**2010**

**Exercise for the topic:  
Remote Services, SSH, SSH tunnels, VNC, RDP  
(10 points)**

The exercise consists of the following parts:

**1. Use SSH:** (3 points)

- Configure the ssh connection without password from your laptop to a RISC computer.
- login (without password) to a RISC computer by ssh from the computer you used in the previous step.
- on the RISC computer please list the `.ssh/authorized_keys` file with `ls -l`
- on the RISC computer please cat the content of the `.ssh/authorized_keys` file in the terminal window.
- invoke the date command in this terminal window.
- if necessary, increase the lines in the terminal window, to show the full log of the previous steps.
- create a screen shot about this terminal window on your laptop and copy it in some way (scp, sftp, etc.) to your CBWE account into the `exercises/ssh` directory as **ssh-no-passwd.jpg** .  
On the screenshot all steps must be visible (from creating the key-pairs to the date command)

**2. Use VNC:** (3 points)

- configure the start of the KDE desktop for your VNC session on a RISC computer
- configure an SSH tunnel for the VNC connection to a RISC computer (you must configure the tunnel, no direct connection is possible to the VNC server from your laptop !).
- make a VNC connection to a RISC computer from your laptop
- make a screen shot about the terminal window (which contains the log about invoking the ssh tunnel and starting the xvnviewer program
- copy this screen shot to the `exercises/ssh` directory as **starting-vnc.jpg**
- start gimp and it's help page in your VNC session (on the RISC computer)
- create a full screen shot
- the icon of your photo must be visible on the screen shot
- save the screen shot in the `exercises/ssh` directory as **vnc-login.jpg**

### 3. Use grdesktop: (4 points)

- configure an SSH tunnel for the RDP connection to the RISC Windows2003 computer (you must configure the tunnel, no direct connection is possible to the Windows2003 server from outside RISC !).
- invoke grdesktop for the connection to the RISC Windows2003 computer from your laptop or PC at home, or another computer.
- make a screen shot about the terminal window (which contains the log about invoking the ssh tunnel and starting the grdesktop program)
- copy this screen shot to the exercises/ssh directory as **grdesktop-starting.jpg**
- create a screen shot about the configuration of the grdesktop program General settings and save it as **grdesktop-config.jpg**
- start gimp with your photo on the Windows2003 server.
- create a full screen shot
- save the screen shot in the exercises/ssh directory as **grdesktop-screen.jpg**

Deadline: December 18<sup>th</sup> 2010.