

Workshop Raspberry

1. Aufbau einer SSH-Verbindung zu entferntem Host (Linux)

1.1 Terminal öffnen

1.2 Eingabe:

```
werner@sony ~ $ ssh pi@hb9czv.does-it.net (Beispiel IP-Adresse)
pi@hb9czv.does-it.net's password:
```

oder lokal:

```
werner@sony ~ $ ssh pi@192.168.1.30 (Beispiel IP-Adresse)
pi@192.168.1.30's password:
```

1.3 Kontrolle der IP-Adresse:

```
pi@raspberrypi ~ $ hostname -I (grosses i wie India)
192.168.1.30
pi@raspberrypi ~ $
```

2. Wechsel zu anderem Host mittels SSH-Verbindung (Linux)

2.1 Im Terminal bleiben gemäss Abschnitt 1

2.2 Eingabe:

```
pi@raspberrypi ~ $ ssh pi@192.168.1.105 (APRS-Server)
```

```
The authenticity of host '192.168.1.105 (192.168.1.105)' can't be established.
ECDSA key fingerprint is 5d:83:75:2e:3e:74:d5:83:fb:9d:37:42:7c:50:f6:1f.
Are you sure you want to continue connecting (yes/no)? yes
Warning: Permanently added '192.168.1.105' (ECDSA) to the list of known hosts.
pi@192.168.1.105's password:
Linux raspberrypi 3.6.11+ #474 PREEMPT Thu Jun 13 17:14:42 BST 2013 armv6l
```

The programs included with the Debian GNU/Linux system are free software;
the exact distribution terms for each program are described in the
individual files in /usr/share/doc/*/copyright.

Debian GNU/Linux comes with ABSOLUTELY NO WARRANTY, to the extent
permitted by applicable law.

```
Last login: Sun Feb 28 13:33:49 2016 from 192.168.1.130
pi@raspberrypi ~ $
```

2.3 Kontrolle der IP-Adresse:

```
pi@raspberrypi ~ $ hostname -I (grosses i wie India)
192.168.1.105
pi@raspberrypi ~ $
```

2.4 Terminal schliessen

3 Aufbau einer SSH/VNC-Verbindung zu entferntem Host (Linux)

3.1 Terminal öffnen

3.2 Eingabe:

```
werner@sony ~ $ ssh pi@hb9czv.does-it.net -L 5901:localhost:5901
pi@hb9czv.does-it.net's password:
Linux raspberrypi 4.1.13-v7+ #826 SMP PREEMPT Fri Nov 13 20:19:03 GMT 2015 armv7l
```

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Last login: Tue Mar 1 11:37:20 2016 from 77-58-85-107.dclient.hispeed.ch

```
pi@raspberrypi ~ $
```

3.3 VNC Server starten (falls nicht bereits automatisch gestartet)

Eingabe:

```
pi@raspberrypi ~ $ tightvncserver
```

New 'X' desktop is raspberrypi:4

Starting applications specified in /home/pi/.vnc/xstartup
Log file is /home/pi/.vnc/raspberrypi:4.log

```
pi@raspberrypi ~ $
```

3.4 Zweites Terminal öffnen

3.5 Eingabe:

```
werner@sony ~ $ xtightvncviewer 127.0.0.1:1
Connected to RFB server, using protocol version 3.8
Enabling TightVNC protocol extensions
Performing standard VNC authentication
Password: (hier das VNC-Passwort eingeben !)
Authentication successful
Desktop name "pi's X desktop (raspberrypi:1)"
VNC server default format:
 32 bits per pixel.
Least significant byte first in each pixel.
True colour: max red 255 green 255 blue 255, shift red 16 green 8 blue 0
Warning: Cannot convert string "-*-helvetica-bold-r-*-16-*-**-*-*-*" to type FontStruct
Using default colormap which is TrueColor. Pixel format:
 32 bits per pixel.
Least significant byte first in each pixel.
True colour: max red 255 green 255 blue 255, shift red 16 green 8 blue 0
Using shared memory PutImage
Same machine: preferring raw encoding
```

Nach Eingabe des Passwortes erscheint der Desktop des Pi:

