

Dear User,

Please make sure your VPN for Uni Tü is started when you connect from outside. In case you are in the 134.2.0.0. IP range, you do not need it of course.

Now here comes first the instruction for Unix-based systems (Mac, Linux, etc.):

Please open your Terminal on your computer and type:
`ssh-keygen -t rsa`

It will ask you where to place the key.

Enter file in which to save the key
(/Users/your_name/.ssh/id_rsa):

Press enter in case this is ok for you. Otherwise give a directory where it should go.

Enter passphrase (empty for no passphrase):

Do not add something here, just press enter again.

Enter same passphrase again:

And again enter.

Now the key will be generated as “id_rsa” and “id_rsa.pub” (or however you named it).

Please open id_rsa.pub with less command (`less id_rsa.pub`) and copy everything in a mail and

send it to me (eric.kemen@uni-tuebingen.de) or attach the file id_rsa.pub.

You will now receive an IP from me that you need to log into your VM. Please wait for this.

Now that you have received the IP for your VM, please connect to your VM with the following command:

```
ssh -XY -I /your_directory_to_key/id_rsa  
ubuntu@193.196.29.198
```

Now say yes to add the VM to your key list.

In case you see now something like

```
ubuntu@vmgateway01:~$
```

Now type:

```
ssh -i id_rsa ubuntu@your_ip
```

In case you see now something like

```
(base) ubuntu@decrypt-machine-master:~$
```

You are in. Congratulations!

Now here comes the instruction for Windows-based systems:

Please install first PuTTY or something similar. PuTTY and associated programs can be

downloaded from here:

<https://www.chiark.greenend.org.uk/~sgtatham/putty/latest.html>

Please install the package.

First, we have to generate a key to get a secure connection. Therefore, please use PuTTYGen.

Here make sure you choose RSA for the key and press generate. Move the mouse to generate random keys and save both the public key (e.g. id_rsa.pub) and the private key (e.g. id_rsa).

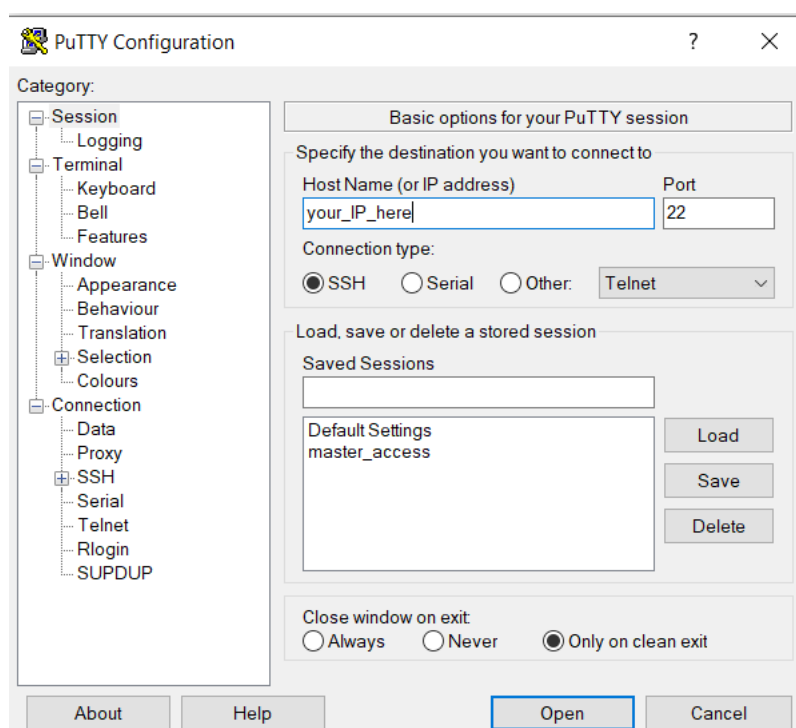
The screenshot shows the PuTTY Key Generator window. The 'Key' section displays a long public key string in a text area, with a portion highlighted in blue. Below this, the 'Key fingerprint' is shown as 'ssh-rsa 2048 SHA256:UgD3plhKnWagtykyGejNq8SsH2jto6TaFByH9MWjl28'. The 'Key comment' field contains 'rsa-key-20220222'. The 'Key passphrase' and 'Confirm passphrase' fields are empty. The 'Actions' section has four buttons: 'Generate' (highlighted with a blue border), 'Load', 'Save public key', and 'Save private key'. The 'Parameters' section shows 'Type of key to generate:' with 'RSA' selected (indicated by a filled radio button), and 'Number of bits in a generated key:' set to '2048'.

Please attach the id_rsa.pub file to a mail and send it to me (eric.kemen@uni-tuebingen.de).

You will now receive an IP from me that you need to log into your VM. Please wait for this.

Now that you have received the IP for your VM, please connect to your VM with PuTTY:

First you need to enter the gateway IP address :
193.196.29.198



Now you should see:

Login as:

And please type **ubuntu** here

In case you see now something like

ubuntu@vmgateway01:~\$

Now type:

```
ssh -i id_rsa ubuntu@your_ip
```

In case you see now something like

```
(base) ubuntu@decrypt-machine-master:~$
```

You are in. Congratulations!