# **Remote access to the observatory**

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# **Remote Desktop Protocol (RDP)**

In this section we explain how to access our observatory remotely using the Remote Desktop Protocol (RDP).

### Linux:

For Linux users we recommend **Remmina**, which to our knowledge is available in the repositories of all major distributions. Nevertheless, the following configuration is in principle transferable to any other RDP client.

			Remmina Remote Desktop Client (on a12)	-	٥	8
asi R	DP 🕶 🦂	1			ж	=
Name 👻	Group	Server	Last time used			
Total 0	items.					

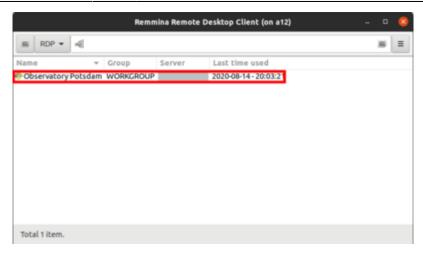
After **Remmina** has been started, the first thing to do is to create a new profile by clicking on the button in the upper left corner (see image above). The fields Name, Group, Server, Username and Password must be set (see image below). Name is the name of the profile, which can be chosen freely. Group must be set to *WORKGROUP*. Server is the IP of the Observatory Management System (OMS). The Username for daily use is *BP34\_User*. Password is self-explanatory. Server and Password will be provided on request.

	Remot	e Desktop Preference (	on a12)	8	
Profile Name	Observatory Po	itsdam			
Group	WORKGROUP			×	
Protocol	🚸 RDP - Remote Desktop Protocol				
Pre Command	command %h %	command %h %u %t %U %p %g-option			
Post Command	ost Command /path/to/command -opt1 arg %h %u %t -opt2 %U %p %g				
Server User name User password Domain	XXXX BP34_			*	
Resolution	-	Use client resolution     Custom     640x480     ·			
Color depth	-	GFX AVC444 (32 bpp)			
Share folder (None)				-	
🔲 Disable automa	tic reconnection				
Cancel	Save as Default	Save	Connect	Save and Connect	

If access is not via the local IP address space, an SSH tunnel must be established. To do this, you should select the SSH Tunnel tab in the profile configuration-window (see image below). After that you have to select Custom, set the server name to one of the computers of the Astro Cluster, e.g. *prakt.astro.physk.uni-potsdam.de* and use a valid user name like *castor*. If authentication is not done by public key cryptography, the Password must be set as well.

	Remote	Desktop Preference	(on a12)	8			
Profile							
Name	Observatory Potsdam						
Group WORKGROUP							
Protocol							
Pre Command	command %h %i	ı %t %U %p %g –optio	n				
Post Command	Post Command /path/to/command -opt1 arg %h %u %t-opt2 %U %p %g						
Basic Advanced	SSH Tunnel						
-	Enable SSH tunnel     Tunnel via loopback address     Same server at port 22						
<ul> <li>Custom</li> </ul>	Custom     a12.astro.physik.uni-potsdam.de						
Character set							
SSH Authentication							
User name castor							
SSH Agent (autom)	atic)						
Password							
O Public key (automa	atic)						
Identity file	(None)						
Cancel	Save as Default	Save	Connect	Save and Connect			

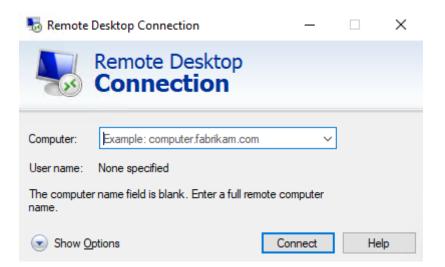
After saving the configuration, the connection can be established at any time by double-clicking on the corresponding entry.



### Windows:

#### **RDP client from Microsoft**

For Windows, **Remote Desktop Connection** from Microsoft can be used. After **Remote Desktop Connection** has been started, a new profile should be created. To do this, first click on "Show options".



Afterwards the IP or the URL of the Observatory Management System (OMS) can be entered under Computer. Furthermore the User name must be set, which is composed of the computer name and the account name as follows:

DESKTOP-6QQIP9S\BP34\_User

The name of the computer and account is DESKTOP-6QQIP9S and BP34\_User, respectively.

The IP and password will be provided upon request.

If the credentials are to be saved, the option Allow me to save credentials must be activated.

둸 Remo	Nemote Desktop Connection - 🗆 🗙				
-	Remote Desk Connectio				
General	Enter the name of the ren Computer:	note computer P-6QQIP9S\B dentials when y	P34_Admin	·	
	tion settings Save the current connect saved connection. Save	Save As		or open a Open He	

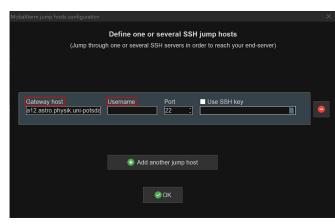
The connection can be established by clicking on Connect. You will then be asked for the credentials. If entered correctly, the connection will be established.

Unfortunately **Remote Desktop Connection** does not support tunneling into the university network via SSH or any other free software. From outside the university network a connection has to be established, e.g., via a SSH tunnel. For this purpose a SSH client like **PuTTY** is recommended. We will not go into further details on how to configure this, since detailed instructions are already available on the Internet (see e.g. www.saotn.org).

#### Alternative to the RDP client from Microsoft - MobaXterm

Alternatively, MobaXterm can be used under Windows. Via MobaXterm, in contrast to the RDP client of Windows, an SSH tunnel can be established, which is called "SSH jump host". First of all a new session has to be established and for this the **RDP** protocol has to be selected. Click **RDP** and make the basic settings. As **Remote host** the IP of the OMS has to be specified, which will be disclosed on request. As **username** you have to enter BP34\_User again.

💽 💽 🧭 🛄 🖬 ன 🍪 🧽 🎉 💭 😢 😵 😭 🗐 SSH Telnet Rsh Xdmcp RDP VNC FTP SFTP Serial File Shell Browser Mosh Aws S3 WSL
Basic Rdp settings
Remote host * Username 29 Port 3389 :
Advanced Rdp settings X Network settings
😟 → 🚍 🔶 🚪 SSH gateway (jump host)
× .
CAncel



In the second step, the tab **Network settings** must be selected. There you have to click on **SSH gateway (jump host)** to specify the SSH host. Don't be surprised there are no changes shown in this window, after the next step.

In the window that opens, the **Gateway host** must be specified. In the example shown here we used columba but basically any host from the Astro domain can be used for this. The **Username** has to be chosen accordingly.

By clicking **OK** the settings of the corresponding windows can be confirmed. Afterwards the connection can be established.

### TeamViewer

**TeamViewer** is a proprietary software for remote access to computers, online meetings and conferences, which can be used free of charge for non-commercial purposes. It is characterized by an extremely simple handling. To log in to a remote computer, only the ID of the remote computer and the associated password are required. The ID must be entered under Partner ID, while the password is requested after clicking the Connect button.

		TeamViewer	- 8
Conn	ection Extras Help <u>Re</u>	lease Notes	Insert partner ID 🧈 Connect 🗸
0	Sign In Don't have an account?	Allow Remote Control	Control Remote Computer
**	Remote Control		
8	Computers & Contacts	Password	Remote control     File transfer
-	Chat		
Ŷ	Getting Started		←
Ð	TeamViewer	<ul> <li>Ready to connect (secure connection)</li> </ul>	

Both the ID and the password will be provided upon request.

The big disadvantage of **TeamViewer** is that it only works if an account is already logged into the computer and **TeamViewer** is started.

# Virtual Network Computing (VNC)

May still be completed...

