Remote Desktop Connection

Remote Access

To use any computer from IMCF you have to have reservation in the IMCF booking system (currently Ceitec booking system). Amongst the computers are Workstation 1 (only available remotely) and Offline Analysis computers OA1, OA2, OA3, OA4 and OA5.

If working outside of the BIOCEV internal networks, to access the computers remotely you must first connect by VPN to the internal network using the manual at intranet.biocev.org/.

There are two options to connect to the devices remotely - by Remote Desktop Connection (RDC) or by using Virtual Network Computing (VNC). Remote Desktop Connection should be installed in any computer with Windows OS (in Czech: Připojení ke vzdálené ploše), while to use VNC separate third-party software needs to be installed.

Users outside Faculty of Science, BIOCEV, must ask IMCF staff (dalibor.panek@natur.cuni.cz) for access to RDC and VNC services. Please provide your BIOCEV user name for access via VPN and/or IP address for direct access from computers at BIOCEV.

To access software with a floating license RDC may be used. However, to access software with node-locked license or node-locked license at the Dongle server user must connect via VNC (continue to Section 3). RDC is more userfriendly and offers better resolution, thus use VNC only when necessary.

1 Remote Desktop Connection

Remote Desktop Connection should be installed in any computer with Windows OS (in Czech: Připojení ke vzdálené ploše).

Instructions

Instructions to connect to the workstation by Remote Desktop Connection (shown for Workstation 1, details for other computers in Hardware Overview):

```
Computer (IP address): 10.11.17.55
```

User name: User Workstation 1

Password: imcf

You may need to click on **More choices** and **Use a different account**, in case the user name filled does not match desired user name. Password is

submitted after pressing Connect. In a warning message about the identity of the remote computer you should connect anyway.

Windows Security

| Nemote Desktop Connection — 🗌 🗙 | | | | | |
|---|------------------------------|--|--|--|--|
| V | Remote Desktop Connection | | | | |
| <u>C</u> omputer: User name: | 10.11.17.55 ~ | | | | |
| Saved credentials will be used to connect to this computer. You can got or delete these credentials. | | | | | |
| Show Q | ptions Connect Help | | | | |

(a) Remote Desktop Connection.

| The identity of the remote computer cannot be verified. Do you want to connect anyway? The remote computer could not be authenticated due to problems with its curity certificate. It may be unsafe to proceed. Certificate name Name in the certificate from the remote computer: WIN-66IVURKCIHJ Certificate errors The following errors were encountered while validating the remote computer's certificate: The certificate is not from a trusted certifying authority. | | | | | | | |
|---|--|--|--|--|--|--|--|
| ecurity certificate. It may be unsafe to proceed. Certificate name Name in the certificate from the remote computer: WIN-66IVURKCIHJ Certificate errors The following errors were encountered while validating the remote computer's certificate: | | | | | | | |
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| WIN-66IVURKCIHJ Certificate errors The following errors were encountered while validating the remote computer's certificate: | | | | | | | |
| The following errors were encountered while validating the remote computer's certificate: | | | | | | | |
| computer's certificate: | | | | | | | |
| 1 The certificate is not from a trusted certifying authority. | | | | | | | |
| A The certificate is not from a trusted certifying authority. | | | | | | | |
| Do you want to connect despite these certificate errors? | | | | | | | |
| Don't ask me again for connections to this computer | | | | | | | |
| View certificate Yes No | | | | | | | |

(c) Warning message.

Update your credentials
These credentials will be used to connect to 10.11.17.55. Clicking
OK will overwrite your previous credentials.
Imaris
Password
More choices
OK Cancel

 \times

(b) Password submission.

| Windows Security | × | | | | | |
|-----------------------------------|-------------------------|--|--|--|--|--|
| Enter your credentials | | | | | | |
| These credentials will be used to | connect to 10.11.16.60. | | | | | |
| share | | | | | | |
| Password | | | | | | |
| MicrosoftAccount\share | | | | | | |
| Remember me | | | | | | |
| More choices | | | | | | |
| share MicrosoftAccount\sha | are | | | | | |
| Use a different account | nt | | | | | |
| ОК | Cancel | | | | | |
| | | | | | | |

(d) Use a different account.

2 Virtual Network Computing

To connect remotely to devices by VNC, you have to install third-party software, for our purpose TightVNC.

2.1 Installation of TightVNC

To install TightVNC on your computer proceed through each step as follows:

- Download TightVNC from this link: tightvnc.com/download.
- Choose Custom Setup
- Click on TightVNC Server and choose **Entire feature will be unavail**able

• **Proceed** with installation



(a) Choose Custom Setup.

| TightVNC | Setup | | | - | |
|-----------|--------------|--------------------------------------|------------------|------------------|----------|
| Custom ! | Setup | | | | S |
| Select th | e way you w | ant features to be insta | illed. | | G |
| Click the | icons in the | tree below to change t | he way features | will be installe | ed. |
| | TightVNC | | | IC Server make | |
| | - | tVNC Server | | er available for | remote |
| | | be installed on local | | | |
| | ⊖9 Entir | e feature will be inst | alled on local h | nard drive | |
| | 🗢 Feat | ure will be installed v | vhen required | | in your |
| | × Entir | × Entire feature will be unavailable | | | |
| | | | | | |
| | | | | 1 | Browse |
| Res | | Disk Usage | Back | Next | Cancel |
| | | Disk Osage | DOCK | NEAL | Cancer |

(b) Click on TightVNC Server and choose Entire feature will be unavailable.

2.2 Connect to device

You may use TightVNC on your local computer or on offline analysis computer in IMCF (separate reservation in booking is needed).

Instructions (shown for Workstation 1, details for other computers in Hardware Overview) to connect to the workstation in TightVNC Viewer:

Remote Host: 10.11.17.55::5903 *

 ${\rm Press}\ {\bf Connect}$

Password: imcf

Choose User Workstation 1 account in Windows

Password for User Workstation 1 Account: imcf

Once connected, set good resolution for your display (default 1920x1080) by adjusting the zoom or enter Full-screen (exit full-screen by pressing Alt+Ctrl+Shift+F).

| 🚾 New TightVNC Connection — 🗆 🗙 | | Statep.4635-Tetratic feed - 0 Seguid () 目のの意識のとしなのの意义 Seguid () 目のの意識のとしなのの意义 Seguid () 目のの意識のとしてなるのである Seguid () 目のの意識のとしてなるのである Seguid () 目のの意識のとしてなるのである Seguid () 目のの意識の Seguid () 目的の Seguid () 目的 Seguid () I Seguid () | |
|---|---|---|--|
| Connection Remote Host: [0]111175551593 ✓ Enter a name or an IP address. To specify a port number, appendit a fair two colons (for example, mypect: \$902). Options | | | |
| Reverse Connections Listening mode allows people to attach your viewer to their desktops. Viewer will wait for incoming connections. | Vnc Authentication X | (R) Imaris | |
| TightWic Viewer TightWiC is cross-platform remote control software. It is source code is available to everyone, either freely (GNU GPL license) or commercially (with no GPL restrictions). | Connected to: 10.11.17.55::5903 Password: | | |
| Version info Licensing Configure | OK Cancel | | |

(a) TightVNC Viewer - IP (b) Password submis- (c) Choose User Workstation 1 acaddress. sion. count and submit password.

^{*5903} defines the port used for VNC and is used for all hardware devices offered at IMCF