

1. IT4Innovations infrastructure access documentation:

<https://docs.it4i.cz/>

2. Documentation for generating the Private and public SSH key

<https://docs.it4i.cz/general/accessing-the-clusters/shell-access-and-data-transfer/ssh-key-management/#public-key>

2. a) Unix user

Creating Your Own Key:

<https://docs.it4i.cz/general/accessing-the-clusters/shell-access-and-data-transfer/ssh-keys/#creating-your-own-key>

2. b) Windows user

Download PUTTYgen:

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

PUTTYgen generator tutorial:

<https://docs.it4i.cz/general/accessing-the-clusters/shell-access-and-data-transfer/putty/#putty-key-generator>

2. c) Mac user

PuTTY for Mac process

[https://www.siteground.com/kb/how_to_generate_an_ssh_key_pair_in_mac_os/?](https://www.siteground.com/kb/how_to_generate_an_ssh_key_pair_in_mac_os/?gclid=CjwKCAjwopWSBhB6EiwAjxmQDUuCKf0RGDexYz5Cp0VVVQQDhF6kmHjmtiQ_OZSXdnN09KreqGVUZ4BoCP-4QAvD_BwE)

gclid=CjwKCAjwopWSBhB6EiwAjxmQDUuCKf0RGDexYz5Cp0VVVQQDhF6kmHjmtiQ_OZSXdnN09KreqGVUZ4BoCP-4QAvD_BwE

Video tutorial:

https://www.youtube.com/watch?v=XoASOMU8lNk&ab_channel=PeopleCanCode

Tutorial PUTTYgen:

https://www.puttygen.com/#Download_PuTTYgen_for_Mac

3. Upload private-public keys(ssh-rsa)

Documentation:

<https://docs.it4i.cz/general/management/it4i-profile/>

3 a) Upload public key

Link to upload SSH Key via IT4Innovations portal:

<https://extranet.it4i.cz/ssp/index.php?action=changesshkey>

3 b) Upload Private key

Private Key Authentication:

<https://docs.it4i.cz/general/shell-and-data-access/#private-key-authentication>

4. Access to cluster:

Barbora can only be accessed by SSH protocol.

You will need an SSH client, private SSH key and its passphrase to log on to Barbora.

IT4I documentation:

<https://docs.it4i.cz/general/shell-and-data-access/>

Login to cluster:

Host: barbora.it4i.cz

4 a) Verification of SSH fingerprints

Please verify SSH fingerprints during the first logon.

You can find them at <https://docs.it4i.cz/general/shell-and-data-access/>.

4 b) Connect using SSH

SSH client applications are widely available on Linux and Mac operating systems.

Login Windows user

PuTTY is a free implementation of SSH for Windows.

PuTTY - download:

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

1. Start PuTTY.
2. Type [your_login@barbora.it4i.cz](https://docs.it4i.cz/general/shell-and-data-access/) into the Session -> Host Name field.
3. Browse for your private SSH key file in Connection -> SSH -> Auth.
4. Click Open.

PuTTY - How to Connect to the IT4Innovations Cluster:

<https://docs.it4i.cz/general/accessing-the-clusters/shell-access-and-data-transfer/putty/#putty---how-to-connect-to-the-it4innovations-cluster>

Login Unix/MAC user

1. Set up file permissions # `chmod 0600 your_private_ssh_key_file`

2. Login to server # `ssh -i your_private_ssh_key_file your_login@barbora.it4i.cz`

* File transfers

File transfers are available via SFTP protocol.

We recommend using scp/sftp/sshfs tools for Linux or Mac.

There is WinSCP client for Windows.

WinSCP download:

<https://winscp.net/eng/download.php>