

Remote Access to Linux (Unix) from MS Windows

Native applications (Putty, WinSCP, VcXsrv) + Kerberos

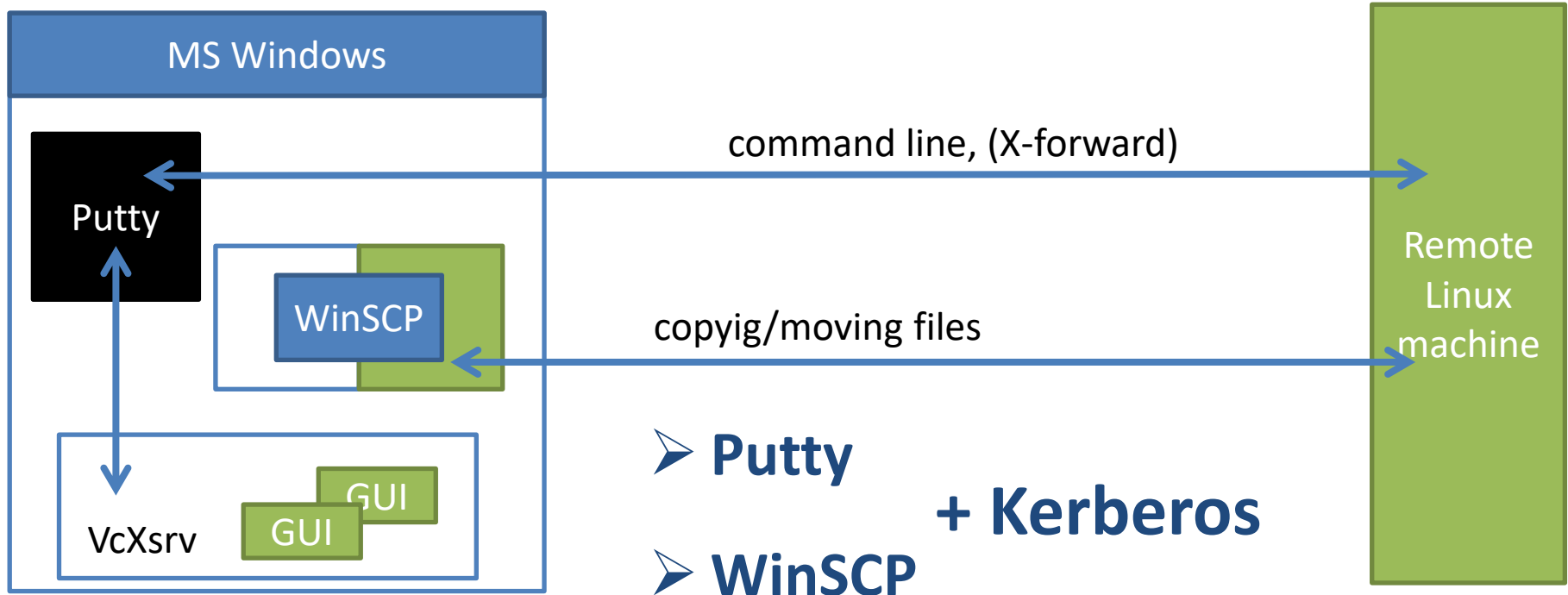
PS / 2020 Distance form of teaching: Rev3

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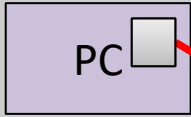
National Center for Biomolecular Research, Faculty of Science
Masaryk University, Kamenice 5, CZ-62500 Brno

Remote Access



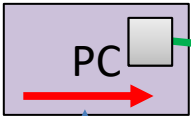
Kerberos - Workflow

A)



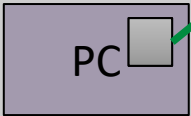
(password is entered each time)

B)



MIT Kerberos for Windows
(password required once)

C)



(pam_krb5)



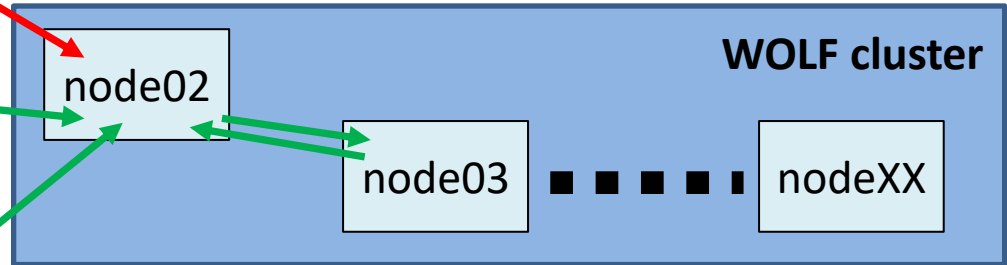
with password (your local account)



with password (eINFRA for the WOLF cluster)



without password during validity of krb5 tickets



login between nodes of cluster without having to enter a password

B) Recommended mode for your personal computers with MS Windows.

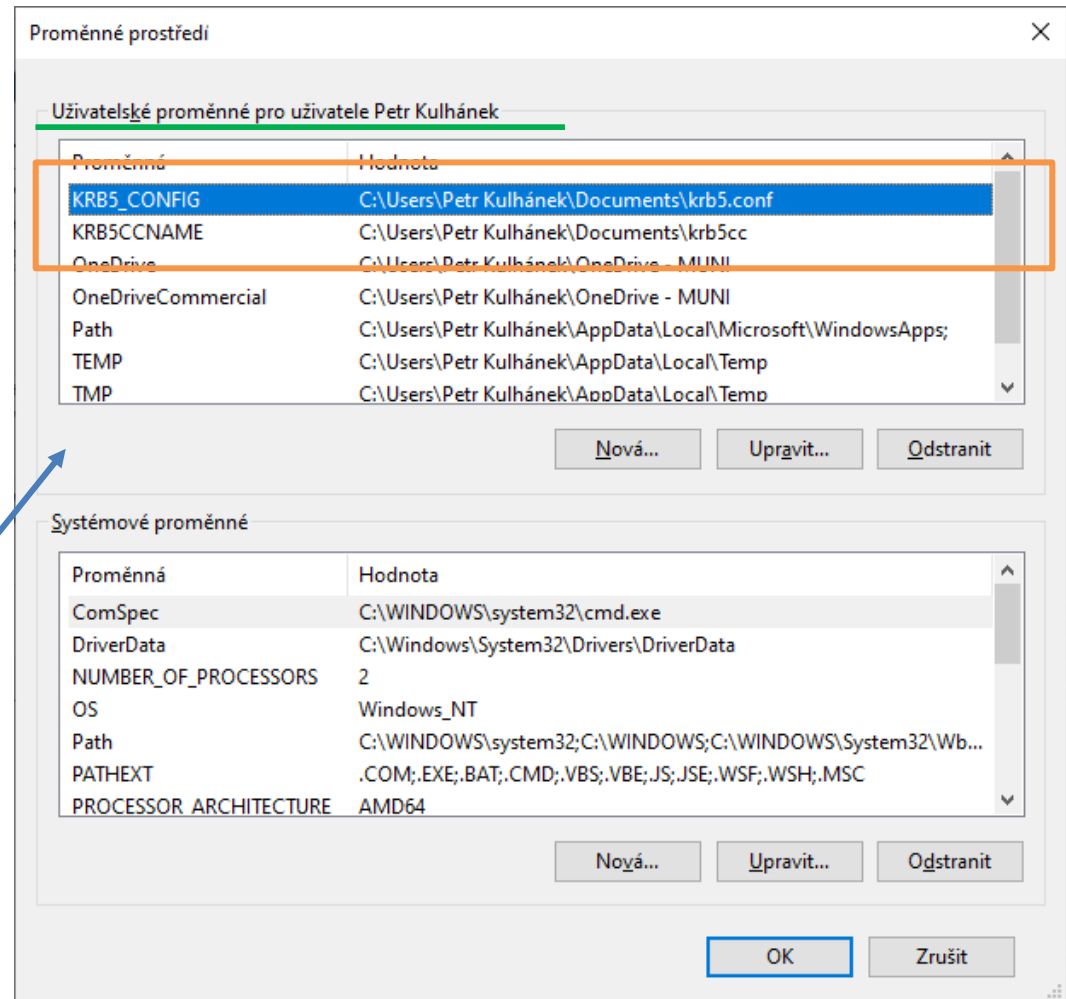
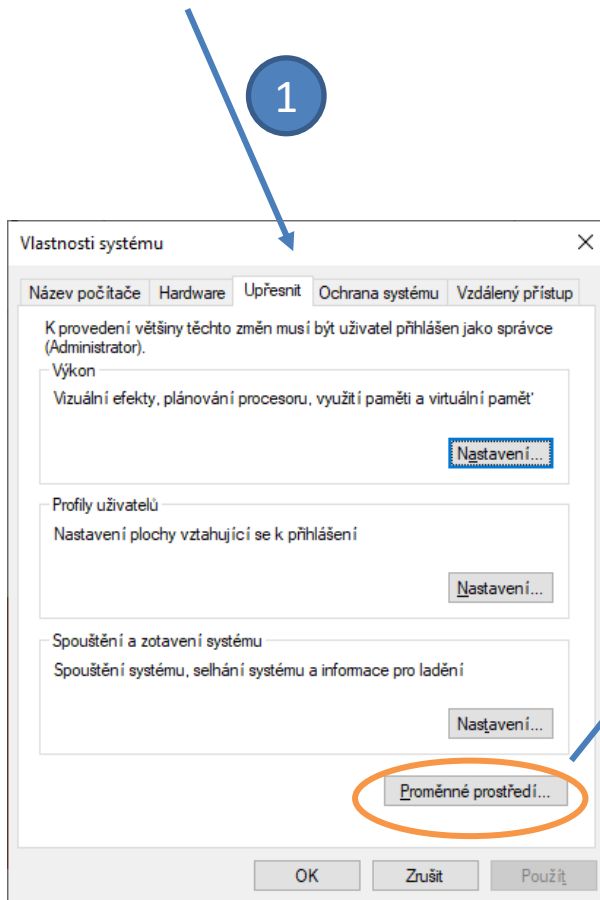
MIT Kerberos for Win - Installation

1. Install MIT Kerberos for Windows (version 4.1), do not restart the computer.
<https://web.mit.edu/kerberos/dist/>
2. Download the configuration file **krb5.conf** for realm META from study materials of course C2110 (directory config, or link in the interactive syllabus Lesson 2). Save the file to a directory **Documents** (or another one of your choice).
3. Set the environment variable **KRB5_CONFIG** so that it contains the path to the file **krb5.conf**.
4. Set the environment variable **KRB5CCNAME** so that it contains the path to the file **krb5cc** (this file does not exist, it will be created by the program) in the same directory as the **krb5.conf** file.
5. See the next page for variable settings.
6. Restart the computer.

MIT Kerberos for Win - Installation

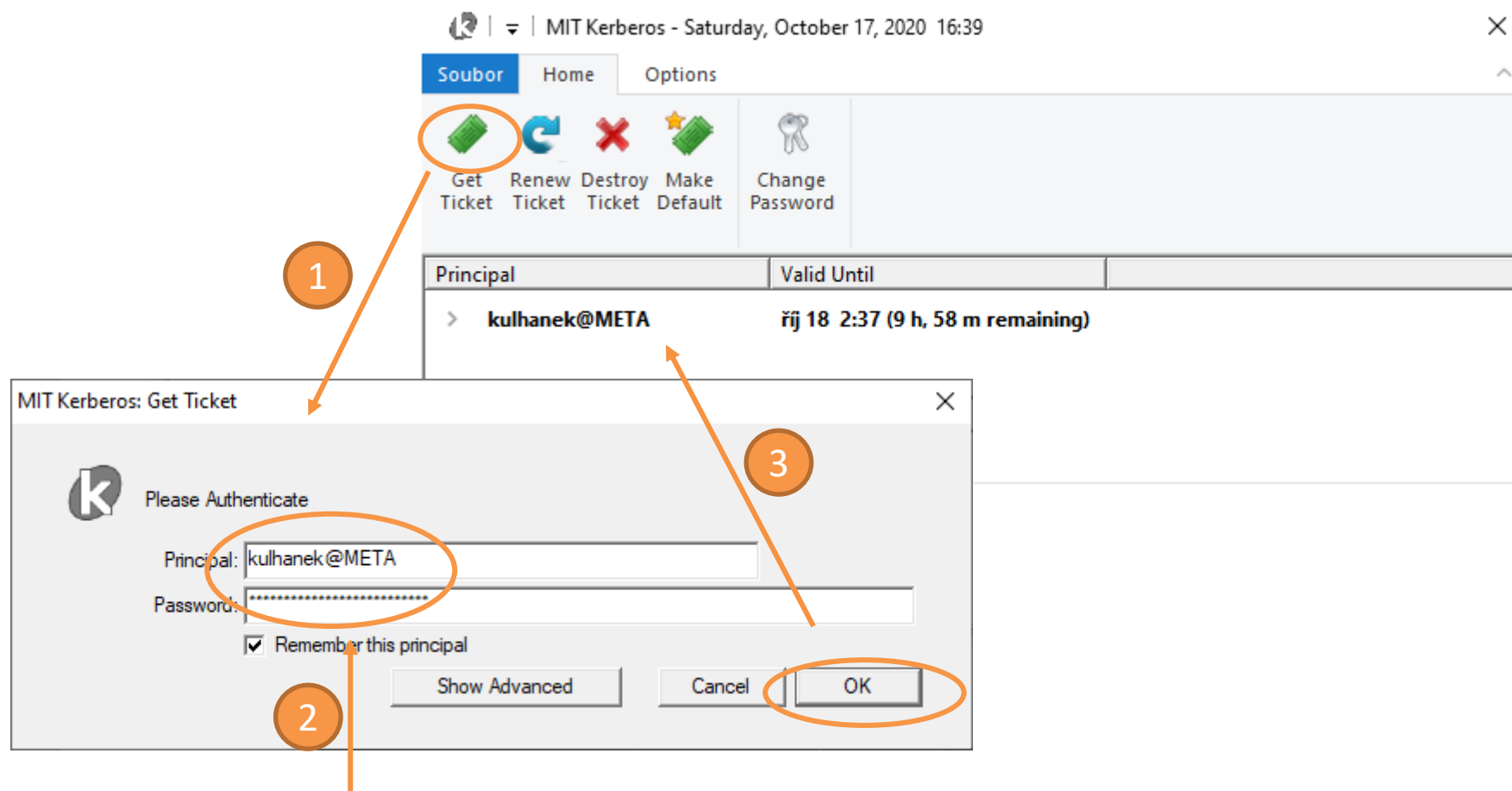
~~Edit system environment variables~~

Edit the environment variables for your account



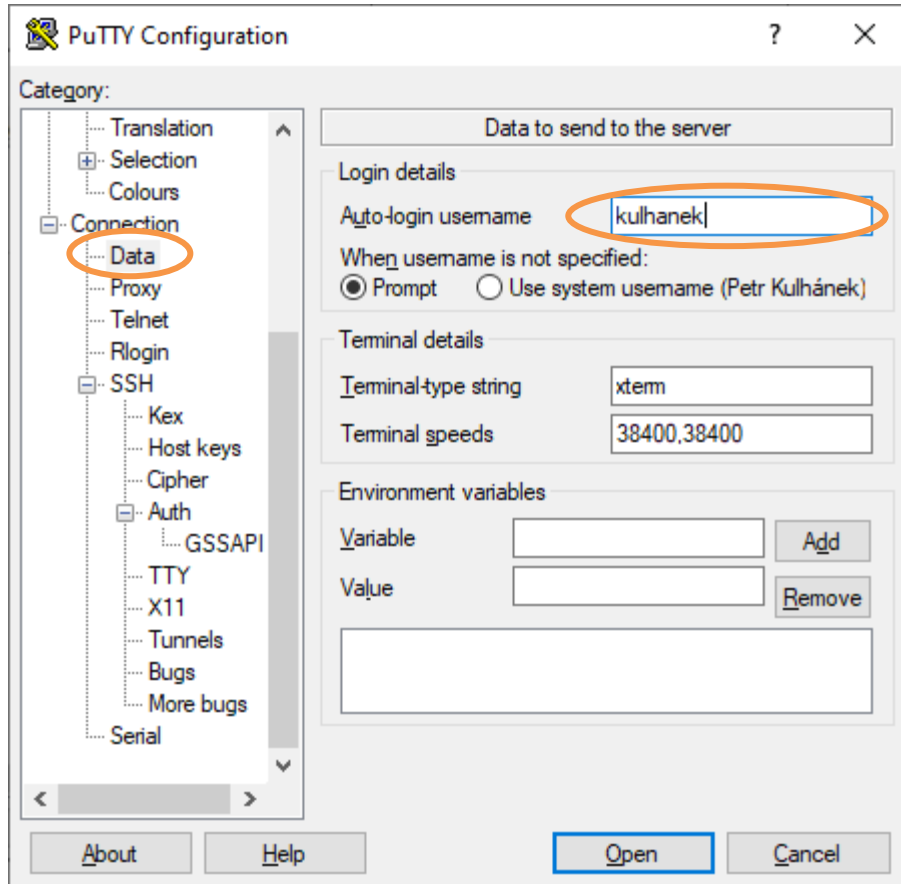
MIT Kerberos for Win

1. Start the MIT Kerberos application Ticket Manager.
2. Create/restore Kerberos ticket.

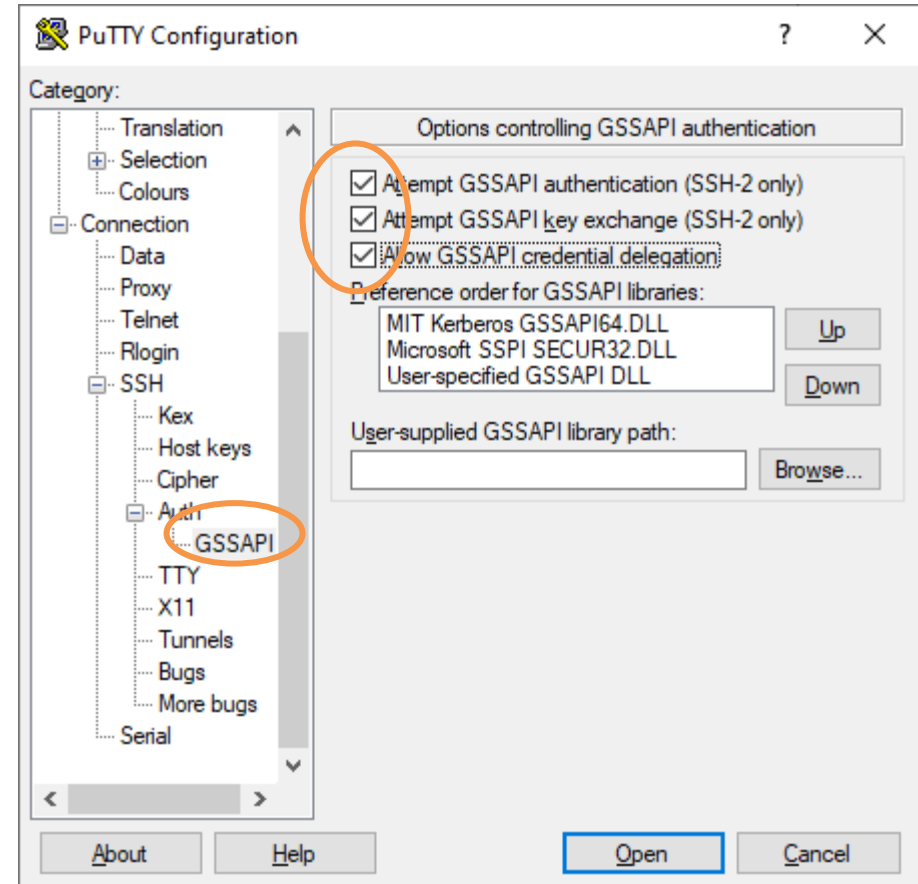


Login name (eINFRA) + password for **username@META**

Putty Configuration



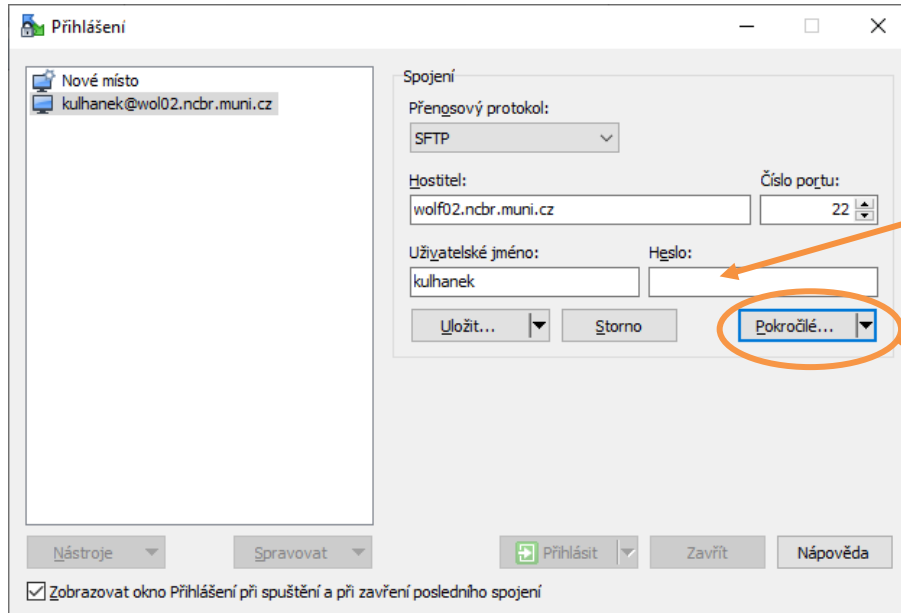
Login name settings.



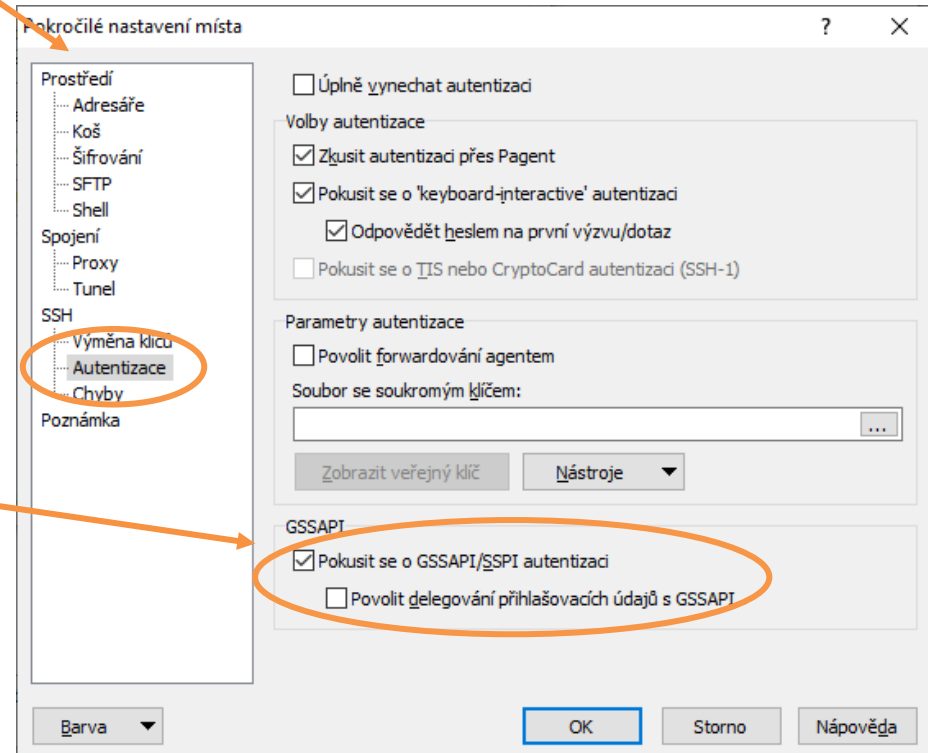
krb5 authentication.

Transfer krb5 tickets to a remote machine (only for trusted remote machines).

WinSCP Configuration



the password is not entered



Delegation is required for work with storages and AFS (details in C2115), not required for routine work.