OpenSUSE 13.2 - Using PUTTY and the script command to log sessions

The presentation will obtain the PUTTY client for Windows, setup a PUTTY session with OpenSUSE, setup the PUTTY log, and use the script command to log a session. PUTTY and the script command may be used separately.

Preuss
2/5/2015

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Player

Desktop

The presentation log into the linux system (this is the class OpenSUSE 13.2).

US

02:33 PM

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Player

Desktop

Tool Box
access configuration
s and controls, or to
ore widgets to the
t Desktop.

Automatic Bridging Settings

Select the host network adapter(s) you want to automatically bridge:

- [ ] DW1501 Wireless-N WLAN Half-Mini Card
- [x] Intel(R) 82579LM Gigabit Network Connection
- [ ] Microsoft Virtu… Miniport Adapter

OK Cancel Help

Device status
- [x] Connected
- [x] Connect at power on

Network connection
- (•) Bridged:
  - [ ] Replicate physi…
- ( ) NAT: Used to share…
- ( ) Host-only: A privat…
- ( ) Custom: Specific vi…
  - VMnet0
- ( ) LAN segment:

Add... Remove

OK Cancel Help

1.
The presentation changes the network connection to bridged. The presentation is connected to a network that provides an IP address to all systems.

Note: NAT should work and does work for some people. It does not work for the presentation.

2.
The presentation forces the virtual machine bridge mode to use the wired network adapter.

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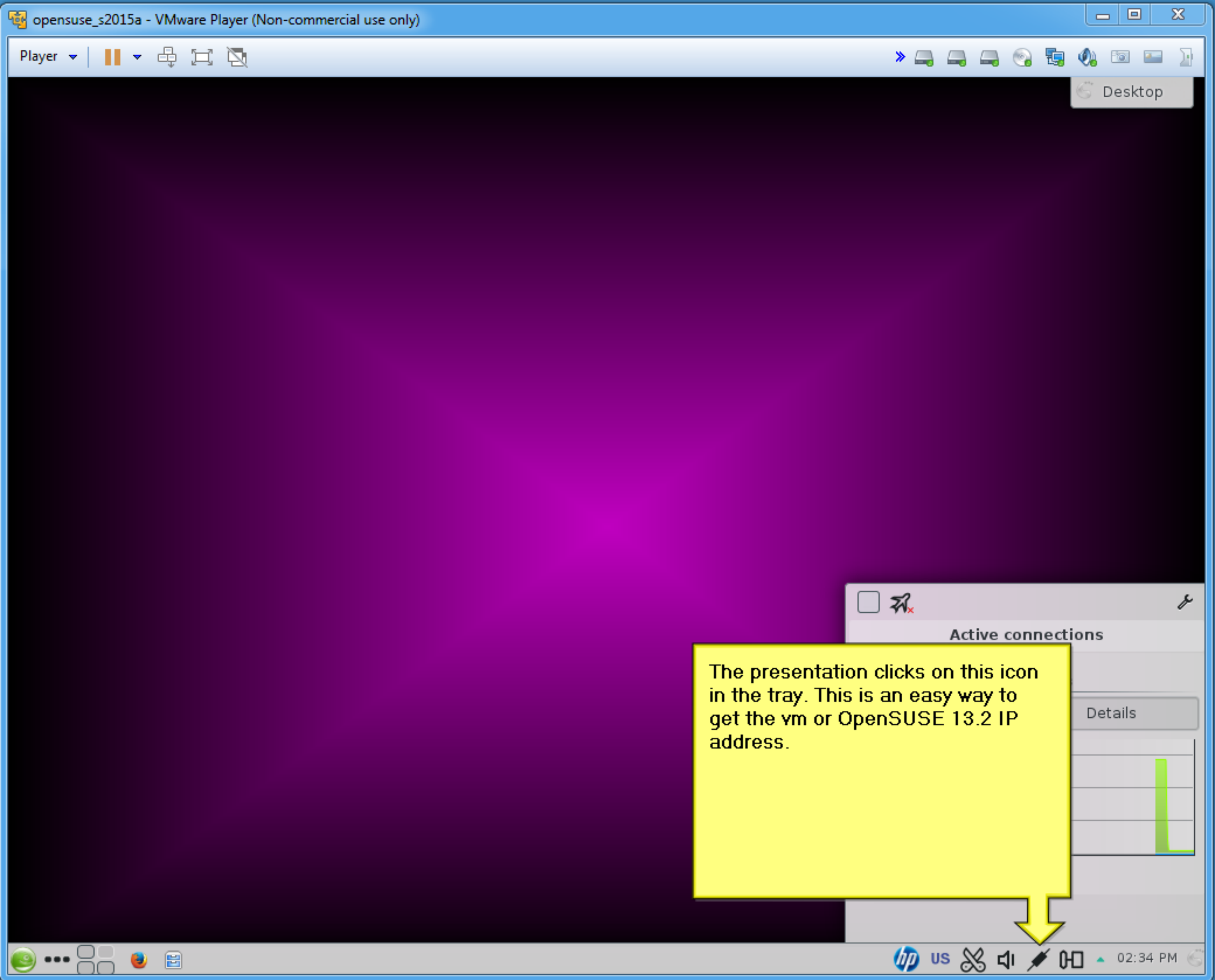
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Player
Desktop
Active connections
Details
The presentation clicks on this icon in the tray. This is an easy way to get the vm or OpenSUSE 13.2 IP address.
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PuTTY Download Page

www.chiark.greenend.org.uk/~sgtatham/putty/download.html

Search

@RISK: The Consensus... Latest Headlines Most Visited Getting Started

- PuTTY (the Telnet and SSH client itself)
- PSCP (an SCP client, i.e. command-line secure file copy)
- PSFTP (an SFTP client, i.e. general file transfer sessions
- PuTTYtel (a Telnet-only client)
- Plink (a command-line interface to the PuTTY back ends)
- Pageant (an SSH authentication agent for PuTTY, PSCP,
- PuTTYgen (an RSA and DSA key generation utility).

The presentation is now on the host Windows computer. This is a web page to download PUTTY.

LEGAL WARNING: Use of PuTTY, PSCP, PSFTP and Plink is illegal in countries where encryption is outlawed. I believe it is legal to use PuTTY, PSCP, PSFTP and Plink in England and Wales and in many other countries, but I am not a lawyer and so if in doubt you should seek legal advice before downloading it. You may find this site useful (it's a survey of cryptography laws in many countries) but I can't vouch for its correctness.

Use of the Telnet-only binary (PuTTYtel) is unrestricted by any cryptography laws.

There are cryptographic signatures available for all the files we offer below. We also supply cryptographically signed lists of checksums. To download our public keys and find out more about our signature policy, visit the Keys page. If you need a Windows program to compute MD5 checksums, you could try the one at this site. (This MD5 program is also cryptographically signed by its author.)

Binaries

The latest release version (beta 0.63). This will generally be a version I think is reasonably likely to work well. If you have a problem with the release version, it might be worth trying out the latest development snapshot (below) to see if I've already fixed the bug, before reporting it to me.

For Windows on Intel x86

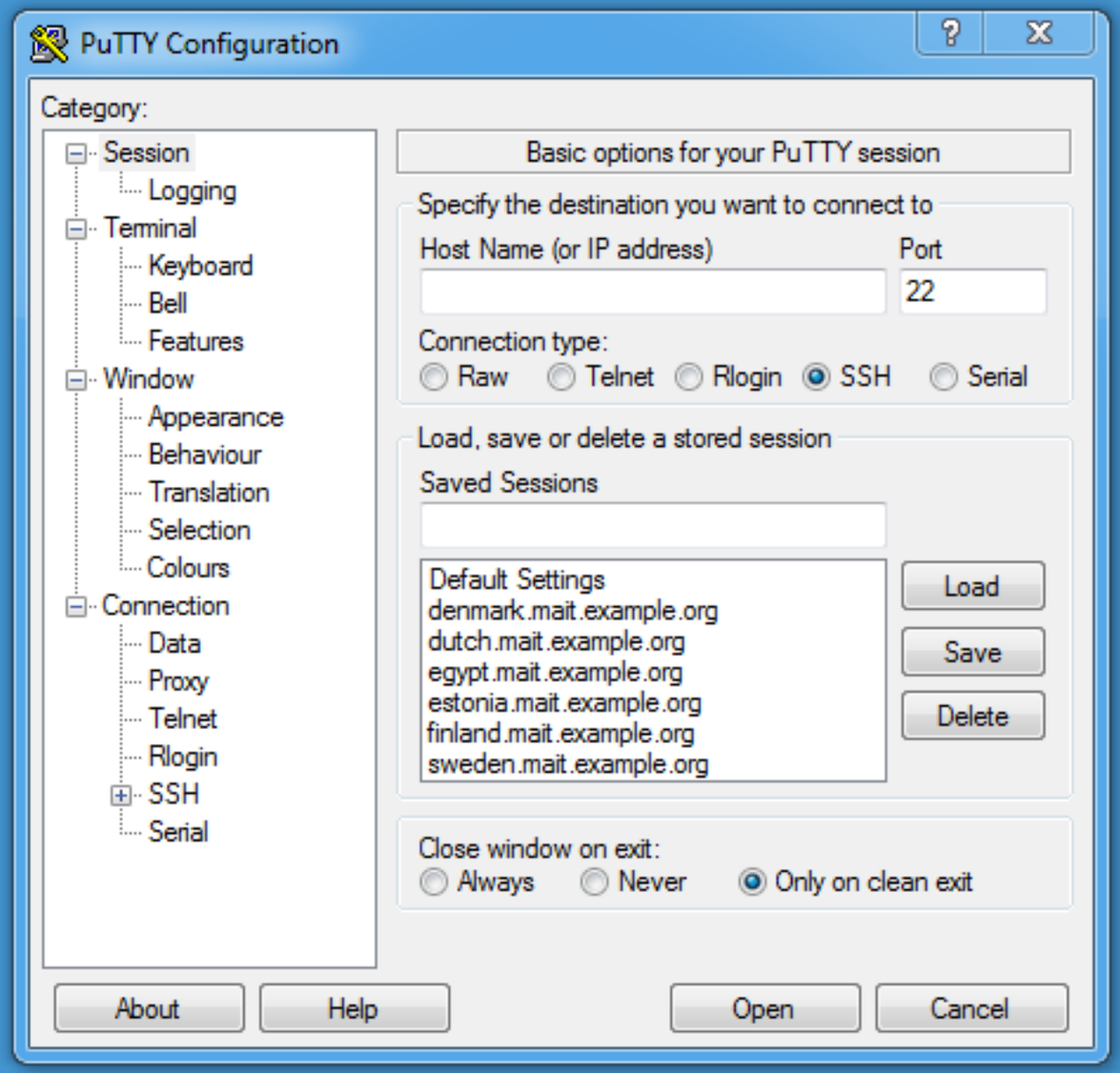
PuTTY:	putty.exe			(DSA sig)
PuTTYtel:	puttytel.exe			(DSA sig)
PSCP:	pscp.exe			(DSA sig)
PSFTP:	psftp.exe			(DSA sig)
Plink:	plink.exe	(or by FTP)	(RSA sig)	(DSA sig)
Pageant:	pageant.exe	(or by FTP)	(RSA sig)	(DSA sig)
PuTTYgen:	puttygen.exe	(or by FTP)	(RSA sig)	(DSA sig)

This is the only file you need. The presentation will download the file to Windows.

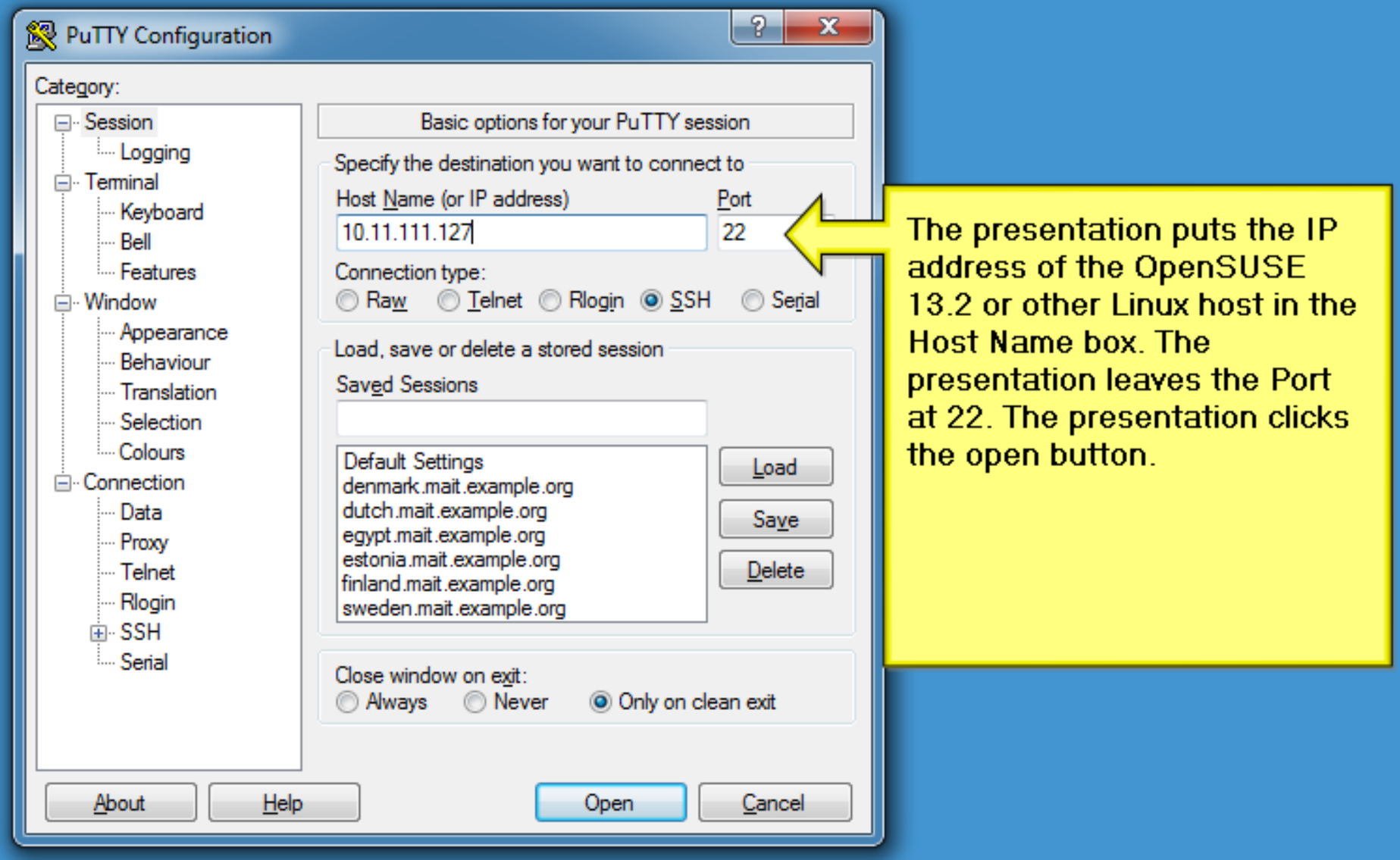
A .ZIP file containing all the binaries (except PuTTYtel), and also the help files

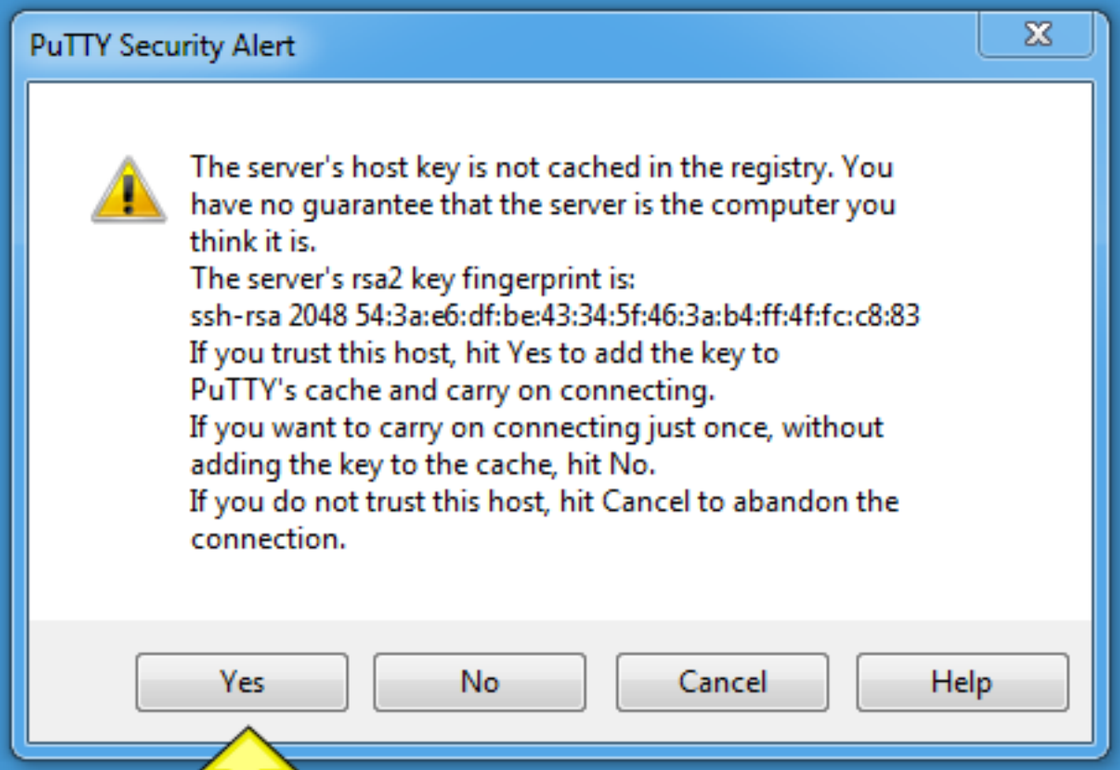
Zip file:	putty.zip	(or by FTP)	(RSA sig)	(DSA sig)

A Windows installer for everything except PuTTYtel

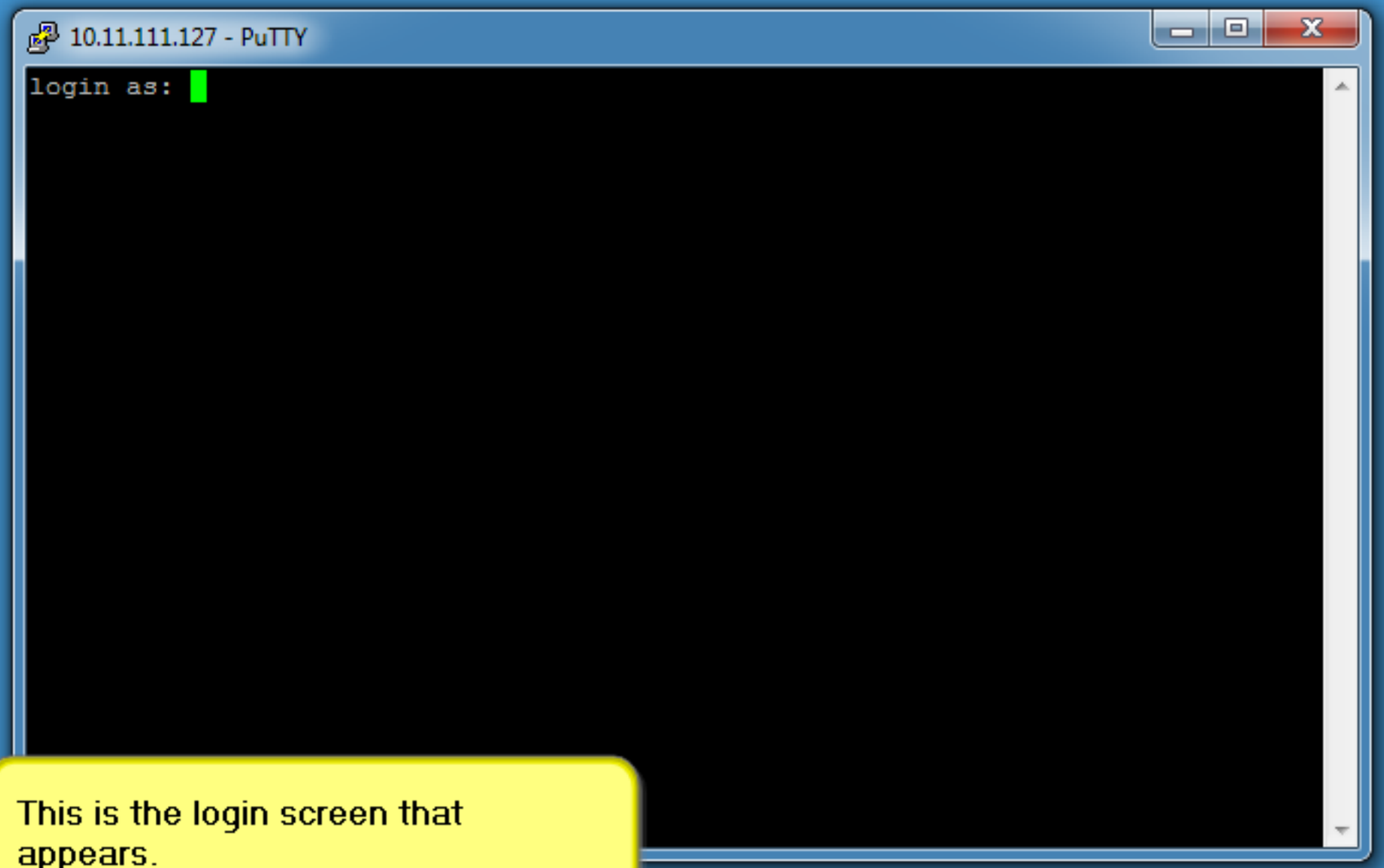


The presentation finds the download PUTTY file. The presentation double click on the Windows PUTTY program. This is the result.

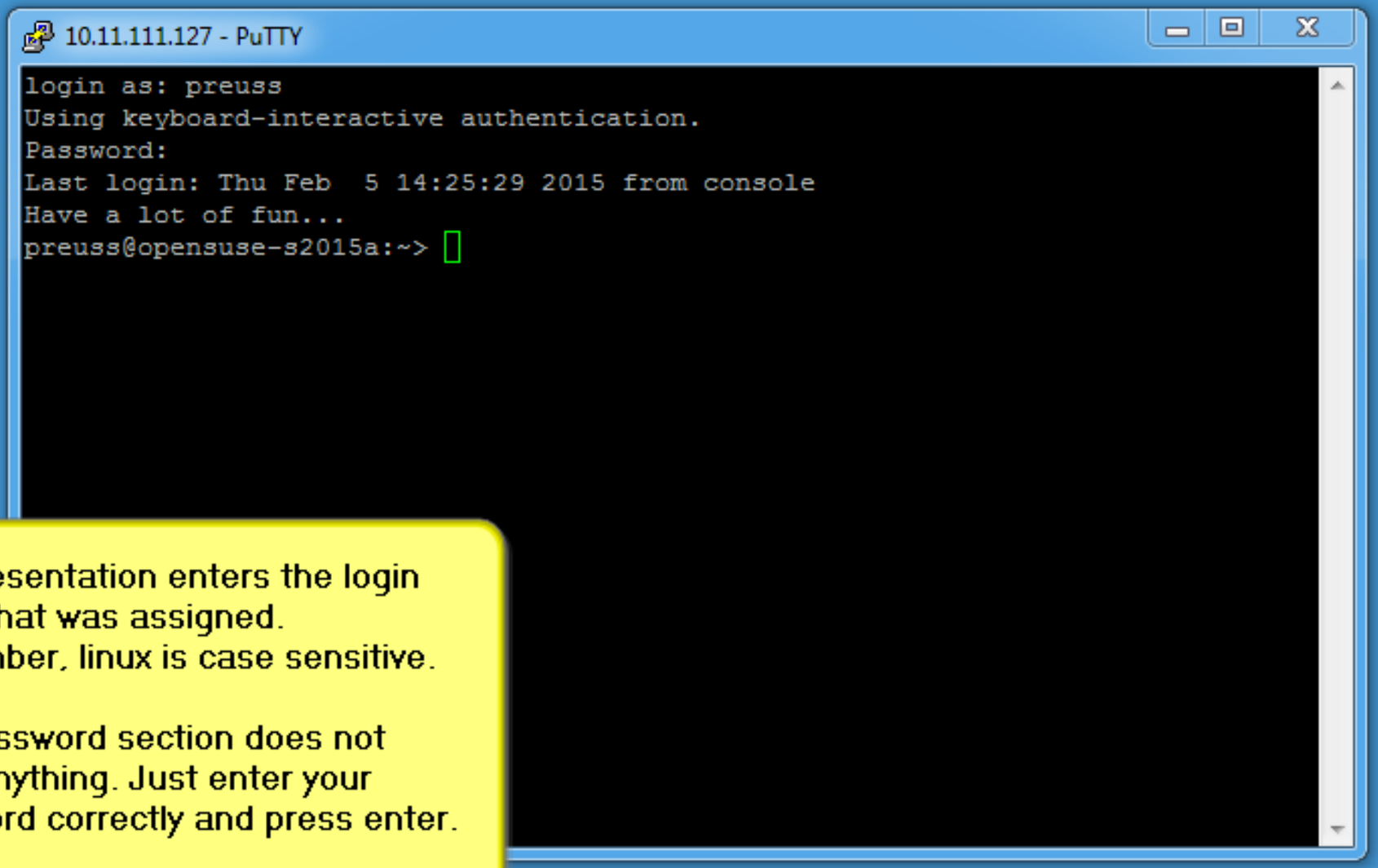

PuTTY Configuration
Category:
Session
Logging
Terminal
Keyboard
Bell
Features
Window
Appearance
Behaviour
Translation
Selection
Colours
Connection
Data
Proxy
Telnet
Rlogin
SSH
Serial
Basic options for your PuTTY session
Specify the destination you want to connect to
Host Name (or IP address)
Port
10.11.111.127
22
Connection type:
Raw
Telnet
Rlogin
SSH
Serial
Load, save or delete a stored session
Saved Sessions
Default Settings
denmark.mait.example.org
dutch.mait.example.org
egypt.mait.example.org
estonia.mait.example.org
finland.mait.example.org
sweden.mait.example.org
Load
Save
Delete
Close window on exit:
Always
Never
Only on clean exit
About
Help
Open
Cancel
The presentation puts the IP address of the OpenSUSE 13.2 or other Linux host in the Host Name box. The presentation leaves the Port at 22. The presentation clicks the open button.



This is the first time connect message. The presentation knows this is the correct computer, the OpenSUSE 13.2 image or other Linux vm. The presentation selects the Yes button.



This is the login screen that appears.

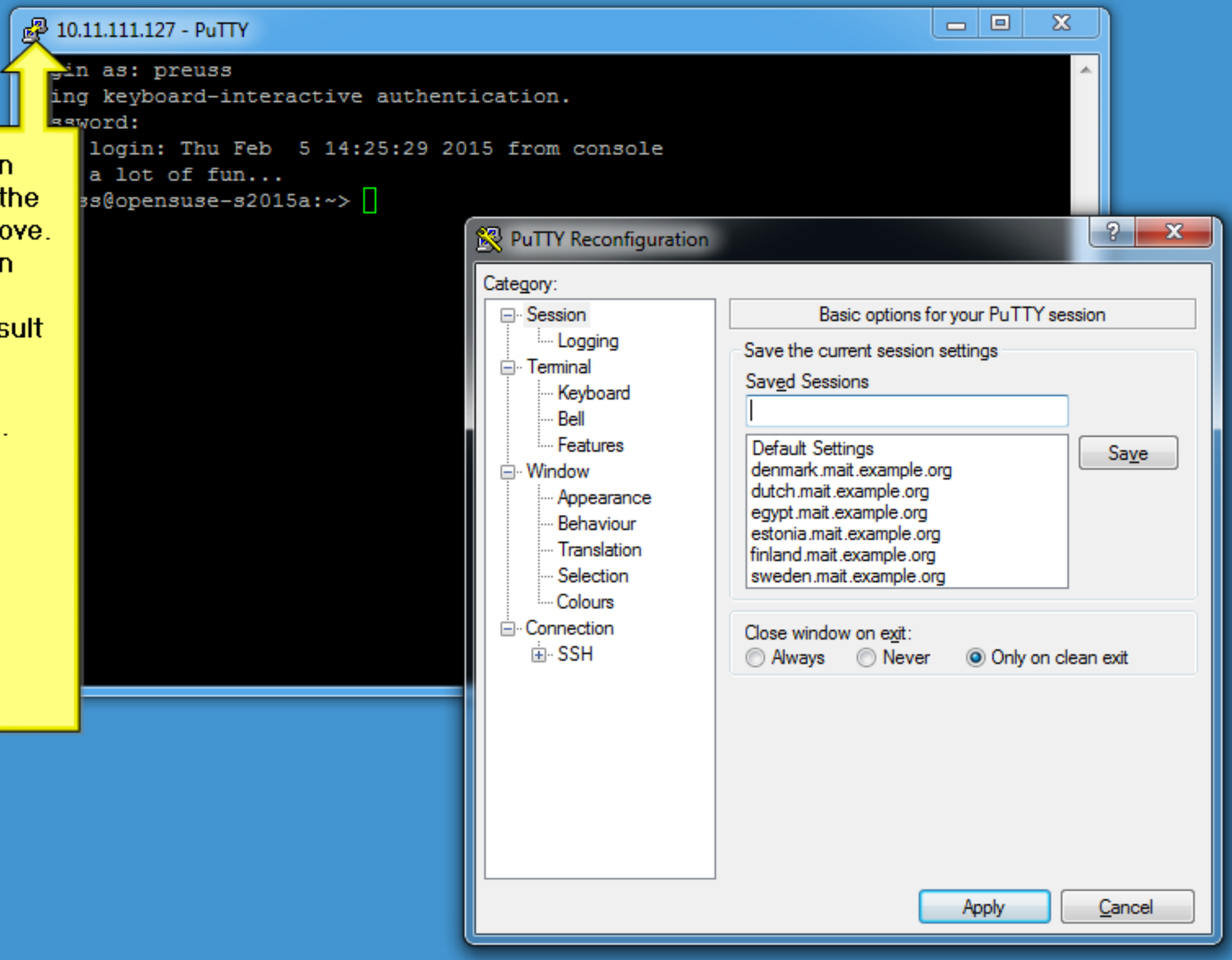


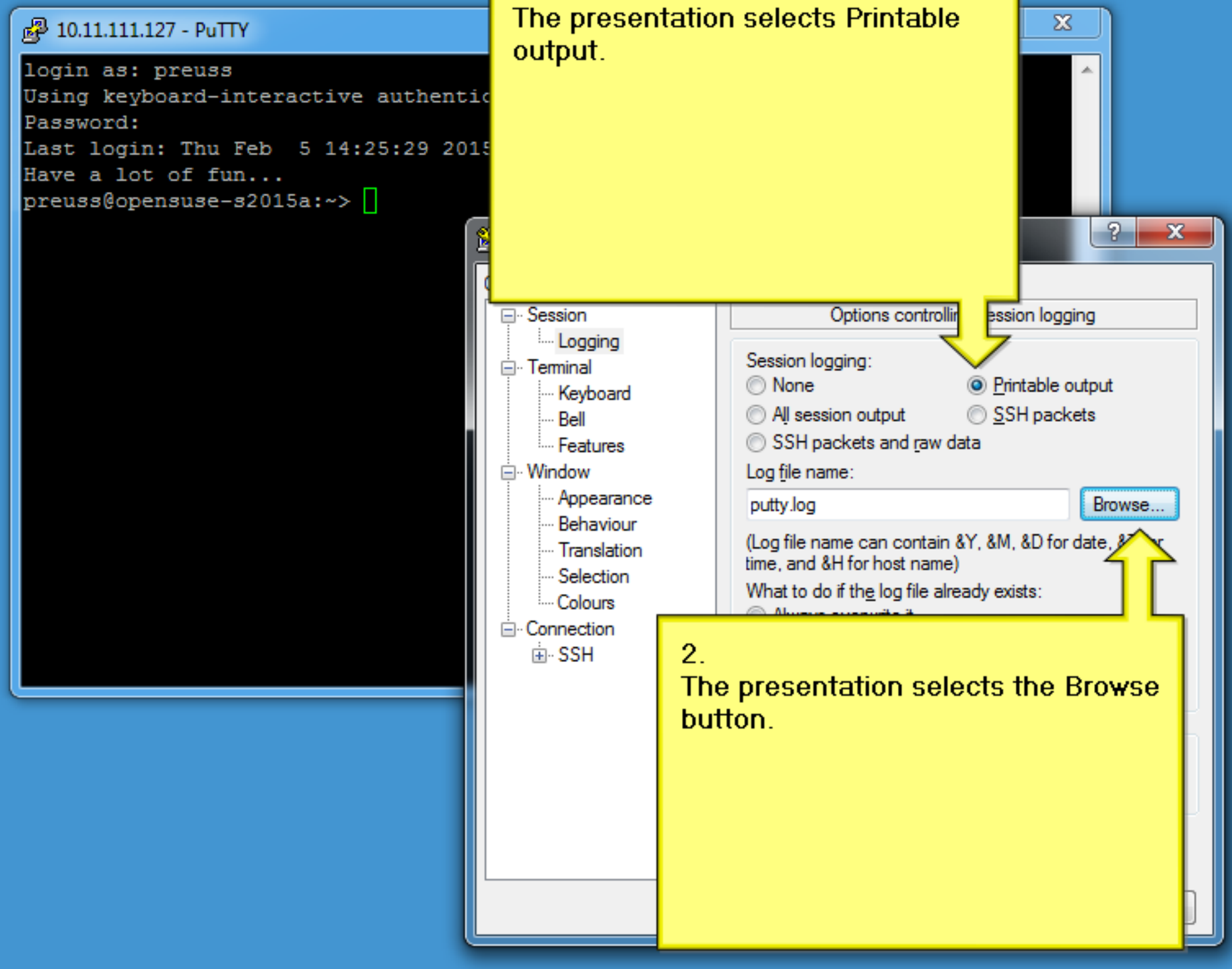
The presentation enters the login name that was assigned. Remember, linux is case sensitive.

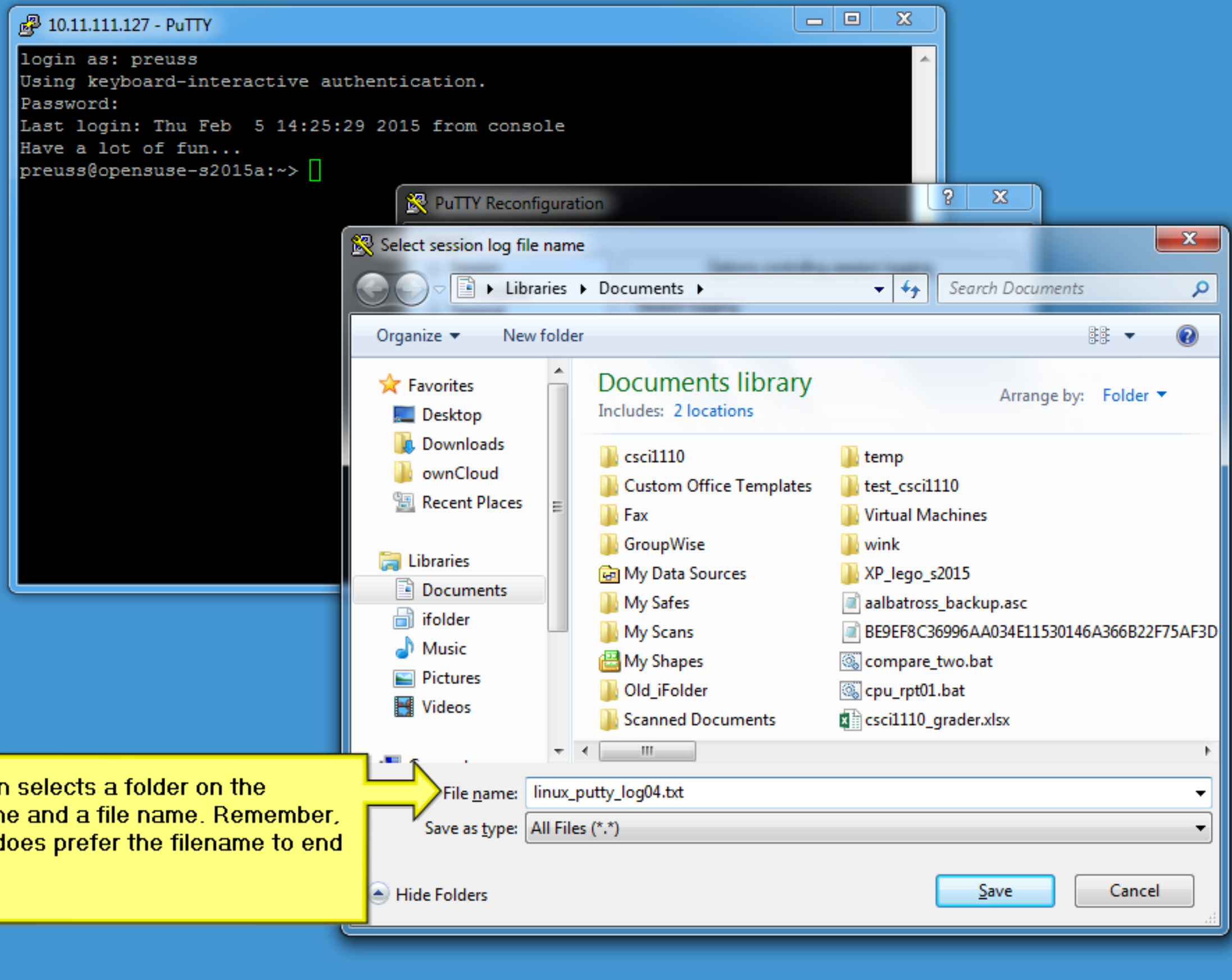
The password section does not echo anything. Just enter your password correctly and press enter.

This is what success looks like.

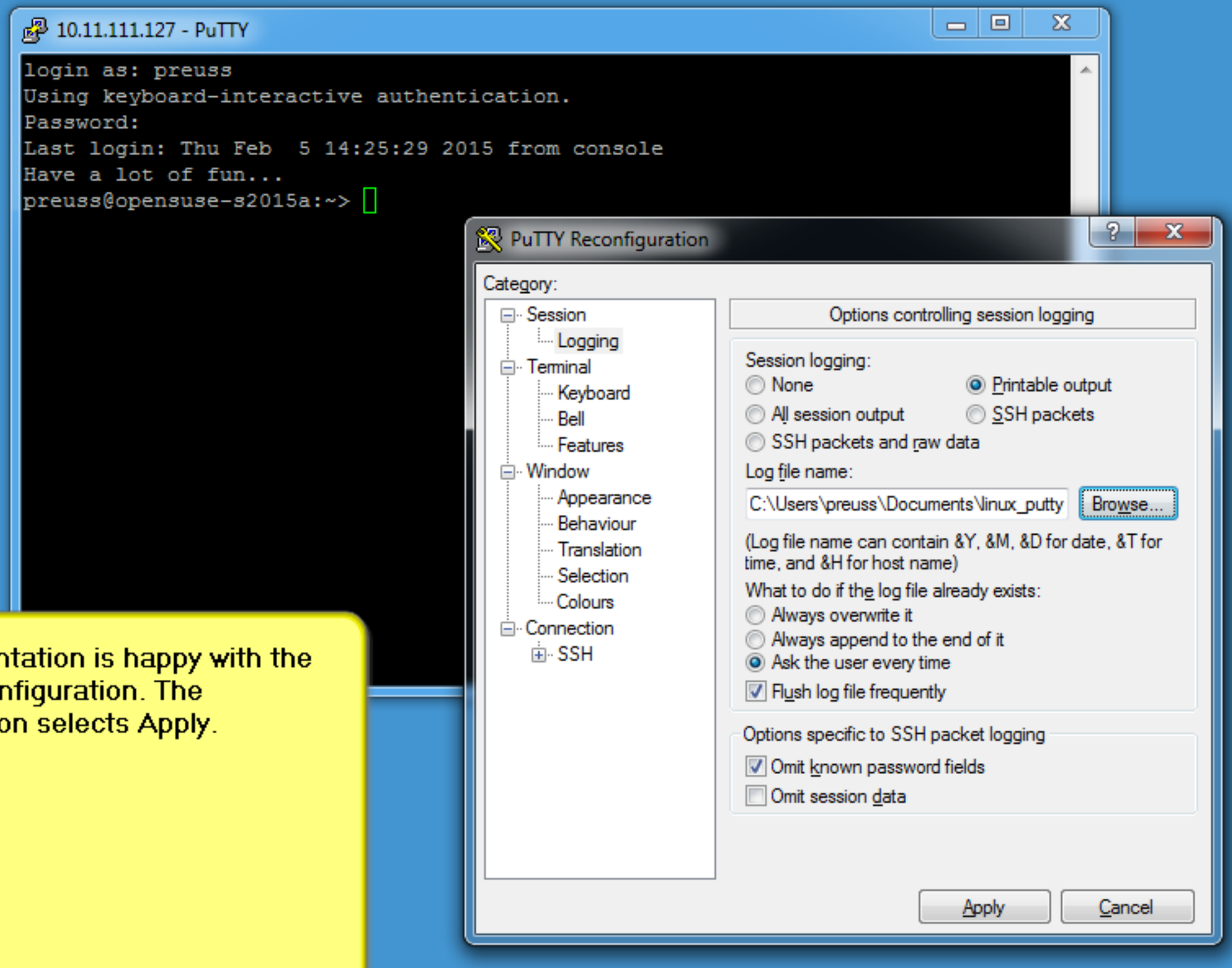
The presentation single clicks on the small picture above. The presentation selects change settings. The result is shown in the PUTTY Reconfiguration.



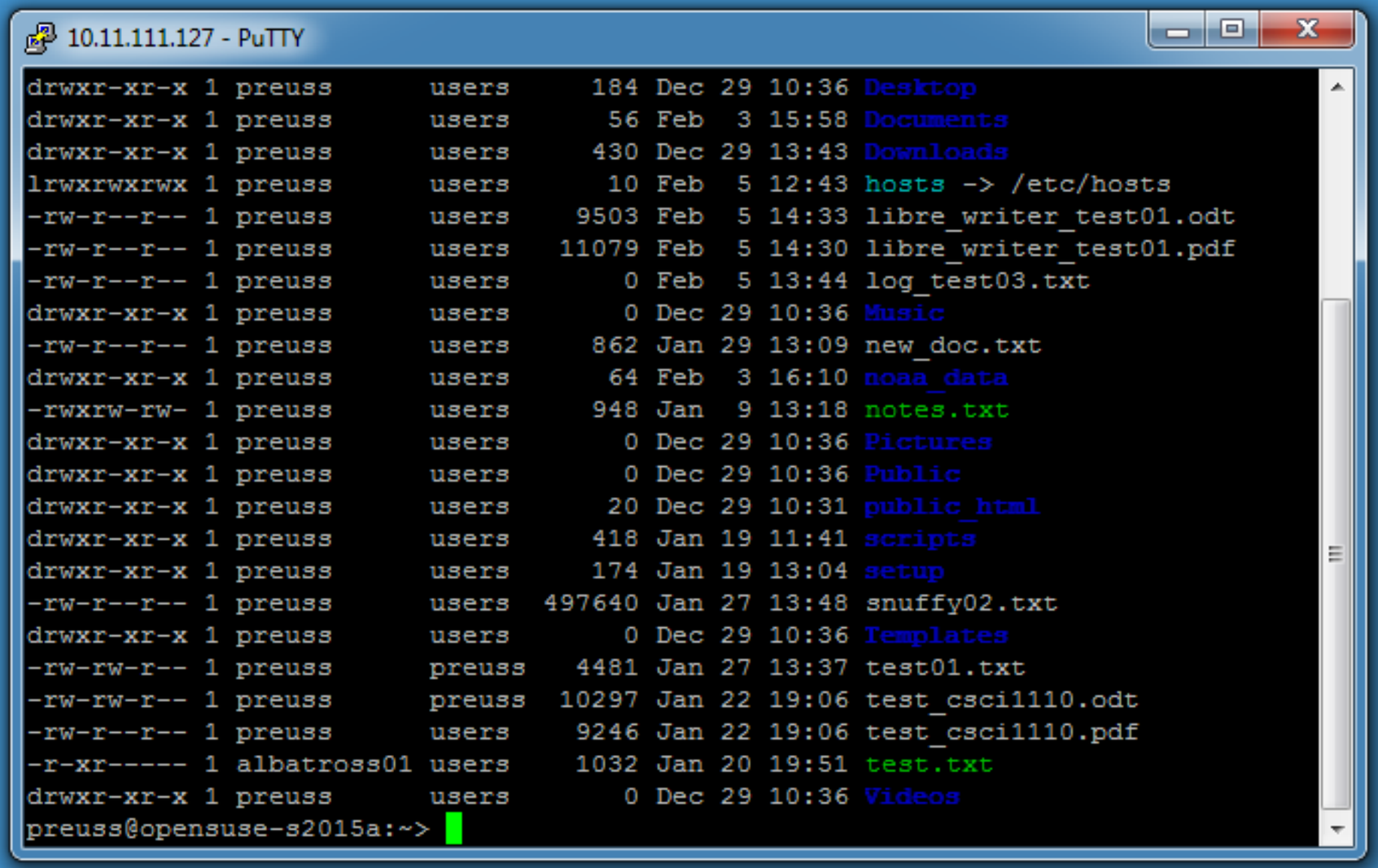

10.11.111.127 - PuTTY
login as: preuss
Using keyboard-interactive authentic
Password:
Last login: Thu Feb 5 14:25:29 201
Have a lot of fun...
preuss@opensuse-s2015a:~>
1.
The presentation selects Printable output.
Session
Logging
Terminal
Keyboard
Bell
Features
Window
Appearance
Behaviour
Translation
Selection
Colours
Connection
SSH
Options controllin
ession logging
Session logging:
None
Printable output
All session output
SSH packets
SSH packets and raw data
Log file name:
putty.log
Browse...
(Log file name can contain &Y, &M, &D for date,
time, and &H for host name)
What to do if the log file already exists:
2.
The presentation selects the Browse button.



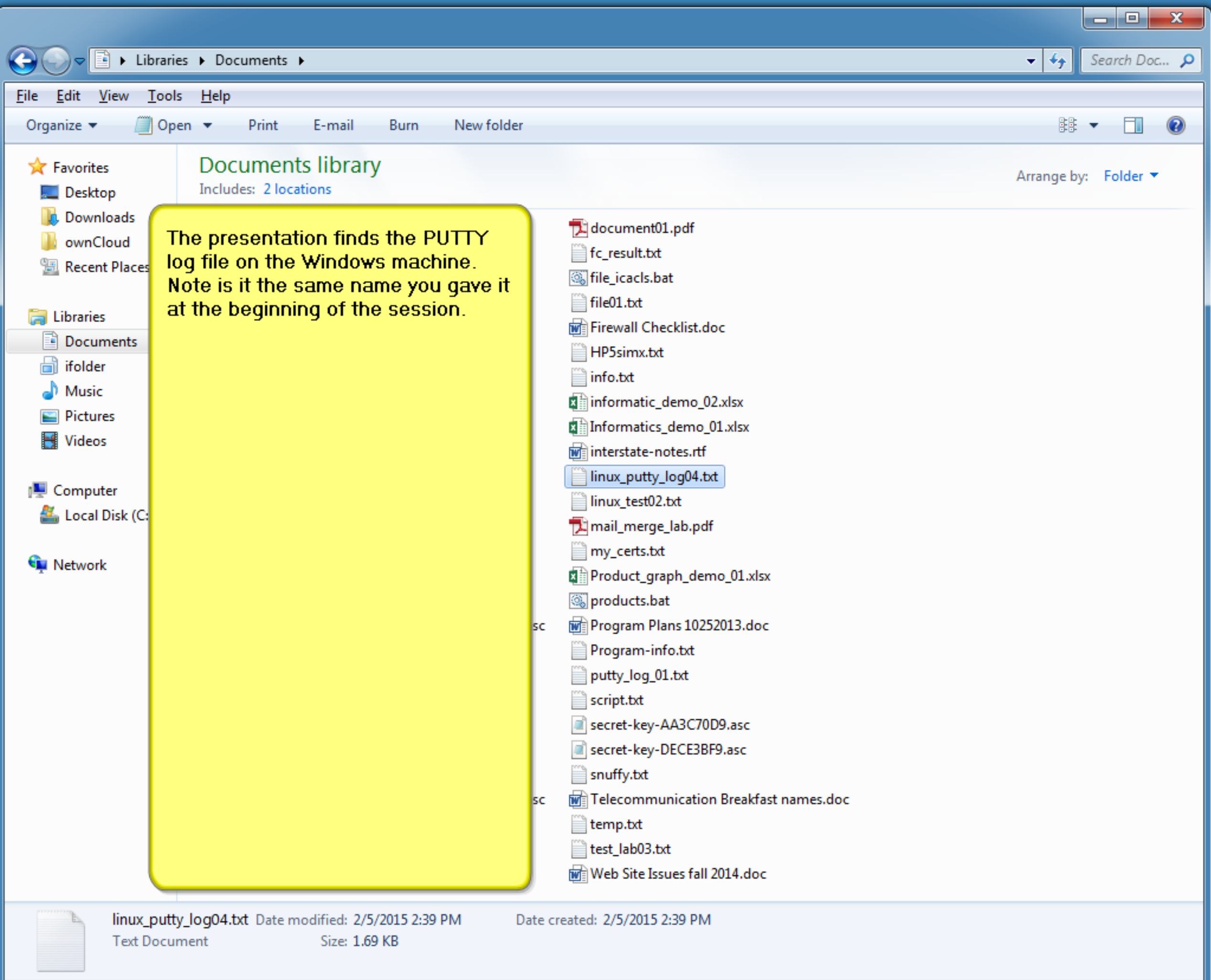
The presentation selects a folder on the Windows machine and a file name. Remember, Windows really does prefer the filename to end in .txt



The presentation is happy with the logging configuration. The presentation selects Apply.



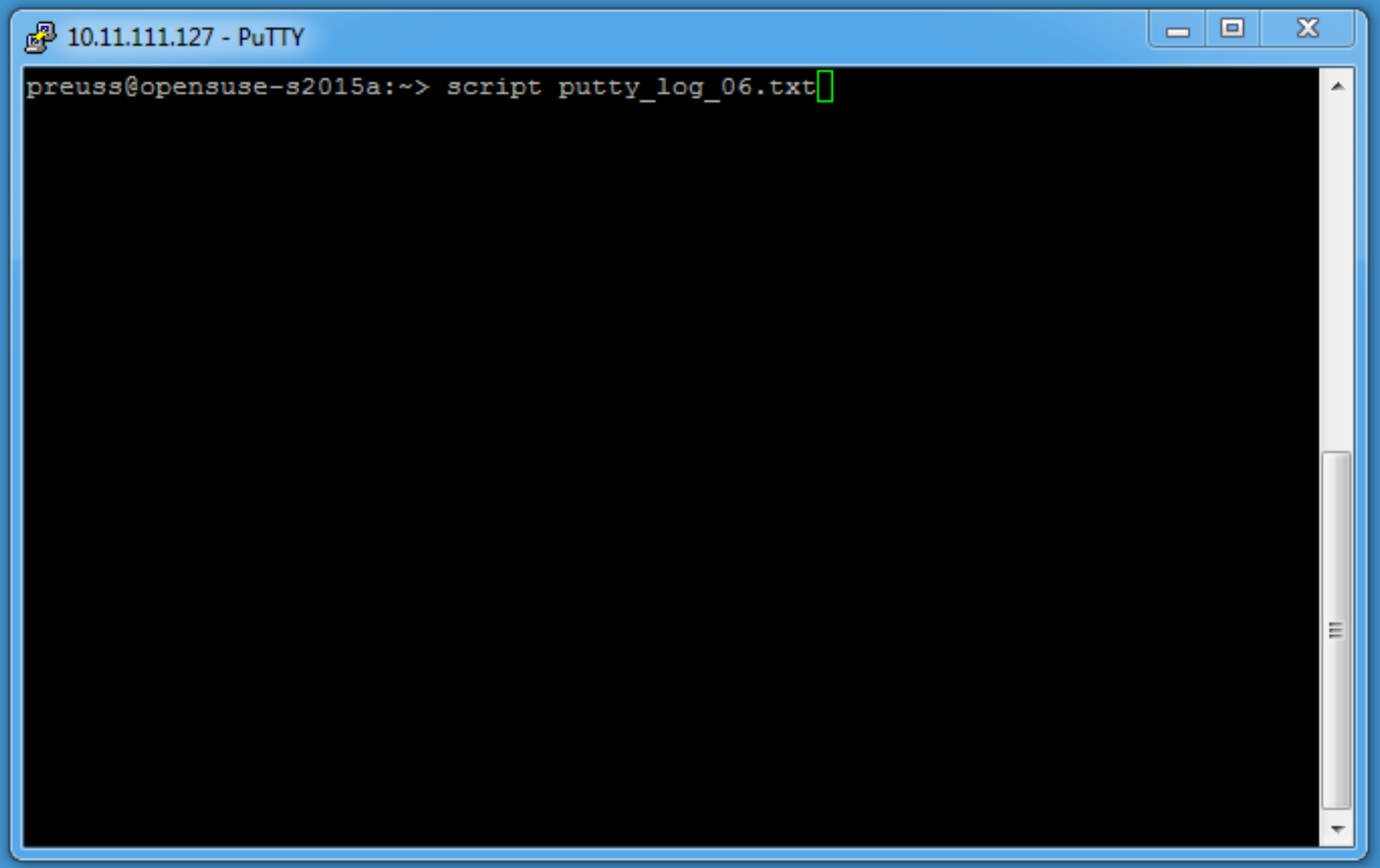
The presentation enters commands on the OpenSUSE 13.2 or Linux command line.


Libraries ▸ Documents ▸
Search Doc...
File Edit View Tools Help
Organize Open Print E-mail Burn New folder
Favorites
Desktop
Downloads
ownCloud
Recent Places
Libraries
Documents
ifolder
Music
Pictures
Videos
Computer
Local Disk (C:
Network
Documents library
Includes: 2 locations
Arrange by: Folder
The presentation finds the PUTTY log file on the Windows machine. Note is it the same name you gave it at the beginning of the session.
document01.pdf
fc_result.txt
file_icacls.bat
file01.txt
Firewall Checklist.doc
HP5simx.txt
info.txt
informatic_demo_02.xlsx
Informatics_demo_01.xlsx
interstate-notes.rtf
linux_putty_log04.txt
linux_test02.txt
mail_merge_lab.pdf
my_certs.txt
Product_graph_demo_01.xlsx
products.bat
Program Plans 10252013.doc
Program-info.txt
putty_log_01.txt
script.txt
secret-key-AA3C70D9.asc
secret-key-DECE3BF9.asc
snuffy.txt
Telecommunication Breakfast names.doc
temp.txt
test_lab03.txt
Web Site Issues fall 2014.doc
linux_putty_log04.txt Date modified: 2/5/2015 2:39 PM Date created: 2/5/2015 2:39 PM
Text Document Size: 1.69 KB

```
-rw-r--r-- 1 preuss     users    9246 Jan 22 19:06 test_csci1110.pdf
-r-xr----- 1 albatross01 users    1032 Jan 20 19:51 test.txt
drwxr-xr-x 1 preuss     users       0 Dec 29 10:36 Videos
preuss@opensuse-s2015a:~> ls
baseline              Music       snuffy02.txt
bin                 new_doc.txt  Templates
Desktop              noaa_data    test01.txt
Documents             notes.txt    test_csci1110.odt
Downloads             Pictures     test_csci1110.pdf
hosts               Public       test.txt
libre_writer_test01.odt  public_html  Videos
libre_writer_test01.pdf  scripts
log_test03.txt         setup
preuss@opensuse-s2015a:~> most hosts
#
# hostsThis file describes a number of hostname-to-address
#mappings for the TCP/IP subsystem.  It is mostly
#used at boot time, when no name servers are running.
#On small systems, this file can be used instead of a
#"named" name server.
# Syntax:
#
# IP-Address  Full-Qualified-Hostname  Short-Hostname
#
```

This is an example of content in the PUTTY log file on Windows.

The presentation will create a log file only on OpenSUSE 13.2 or Linux.



The command is script. The presentation enters the information shown on the command line. Remember, script is the command and putty_log_06.txt is the file name. You may choose another filename.

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Player

preuss - Dolphin

Find Preview Split Control

Places > Home

putty_log_06.txt
snuffy02.txt
test01.txt
test.txt
test_csci1110.odt
test_csci1110.pdf

putty_log_06.txt (plain text document, 2.7 KiB)

The results of the script command are on the OpenSUSE 13.2 or Linux system. The file is in the folder/directory where you started the program.

The presentation could copy this file to Windows for additional work.

Desktop

preuss – Dolphin

US 02:44 PM