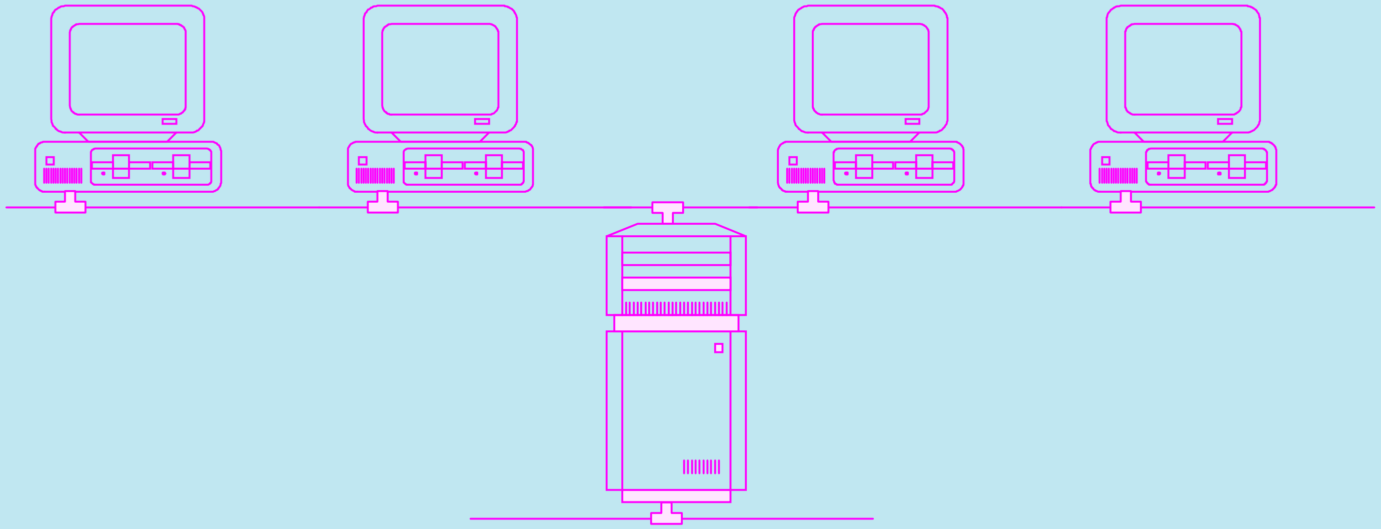
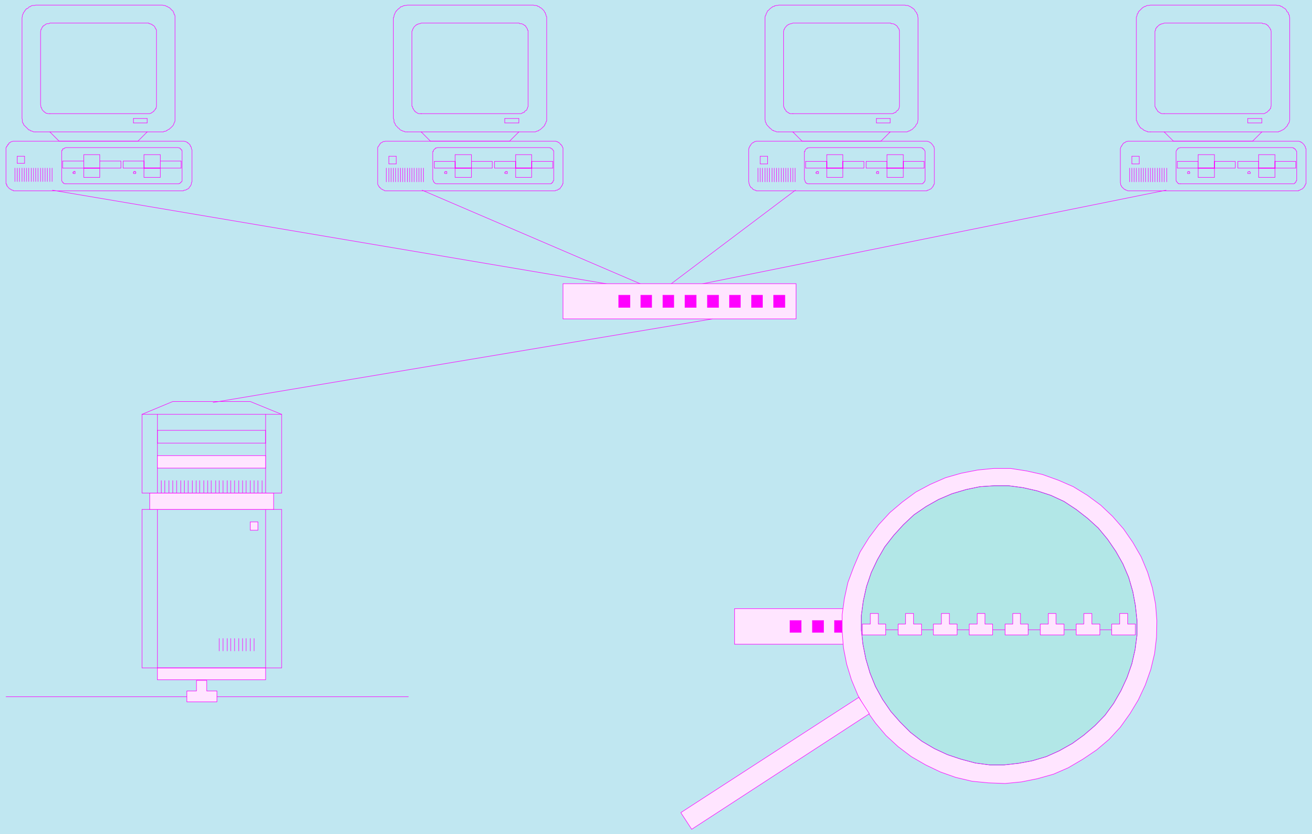
Connectivity between computers with different OS'es

... is it all about security, and why?

1. Some “frightening” background, which is well-known to everybody, but worth repeating three times a day...
2. Inter-computer communications from the user’s viewpoint:
   - remote command execution – exchange of terminal output;
   - “client-server tasks” – exchange of specially formated information;
   - file transfers – exchange of arbitrary files.
3. ssh – what it provides and how is it configured?
4. ssh-tunneling and how can it help us in remote X-client execution.
5. “Client-server tasks” – should we use ssh-tunneling and how, if we would?
6. File transfers
   - pecularities of ssh-tunneling with FTP;
   - netbios and samba – is there netbios-over-ssl?
7. The wireless “nightmare” – could we releave it using ssh?



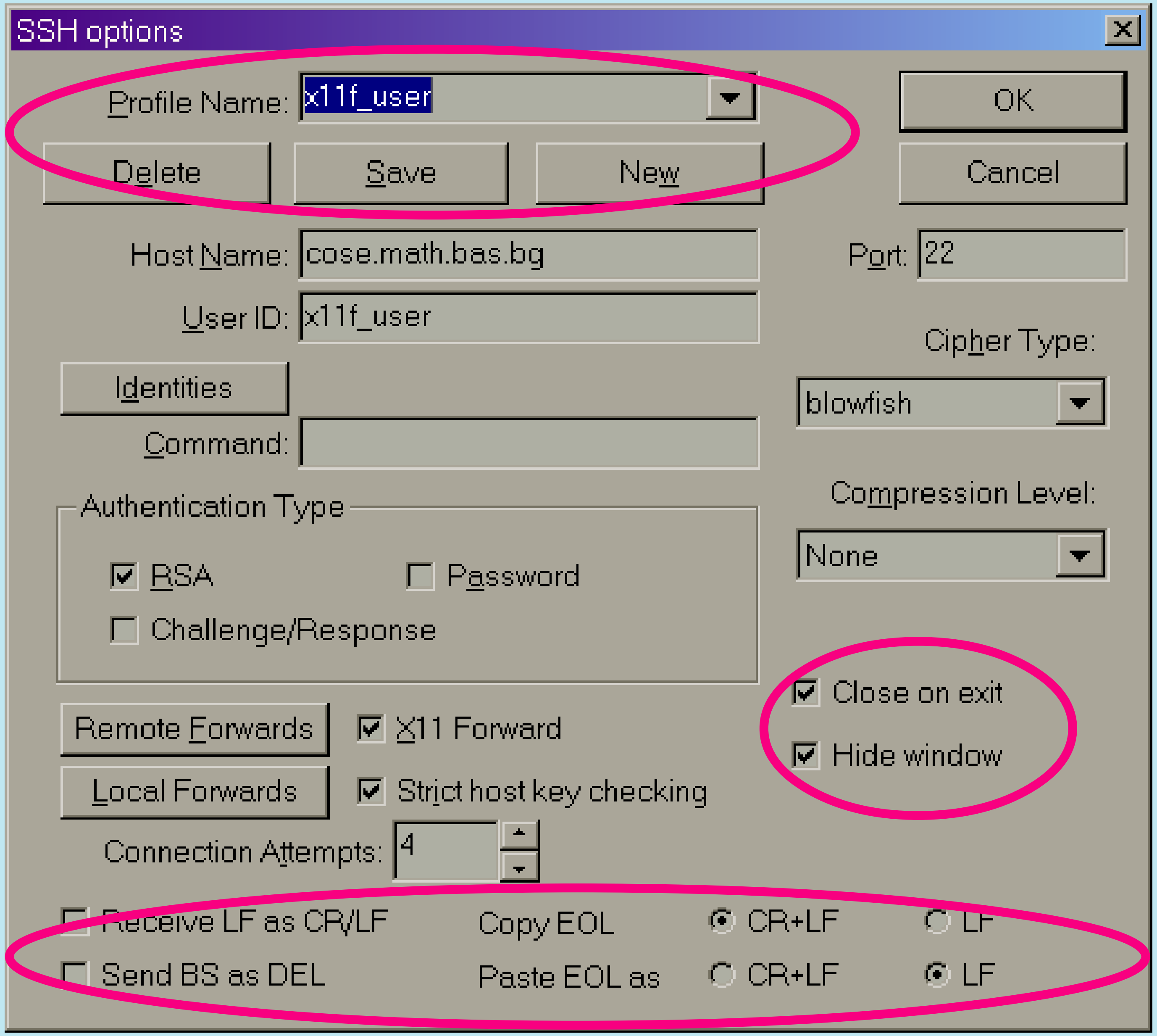


ssh (sshd server / ssh client pair) – what it provides?

	ssh1	ssh2
server host identification by means of asymmetric encryption algorithm (private/public key pair)	+	+
negotiation of the session encryption algorithm and the symmetric session key	+	+
session integrity verification (hashing, keep-alives over the encrypted channel)	–	+
user authentication on the server host (host-based, public key, TIS challenge/response, password)	+	+
port forwarding (local, remote, X11 session)	+	+
interactive or non-interactive command execution on the server host	+	+
auxiliary subsystems (key generator, authentication agent, file transfer subsystem)	+	+

ssh clients and client-side configuration

- ssh1-only clients: C. Igaly ssh16/ssh32; teraterm/ttssh
- ssh1/ssh2 clients: Putty; mindterm (Java-based); OpenSSH (command line only)



Profile Name: x11f_user

Host Name: cose.math.bas.bg

Port: 22

User ID: x11f_user

Cipher Type: blowfish

Command:

Compression Level: None

Authentication Type

☑ RSA ☐ Password

☐ Challenge/Response

☑ Close on exit

☑ Hide window

☑ X11 Forward

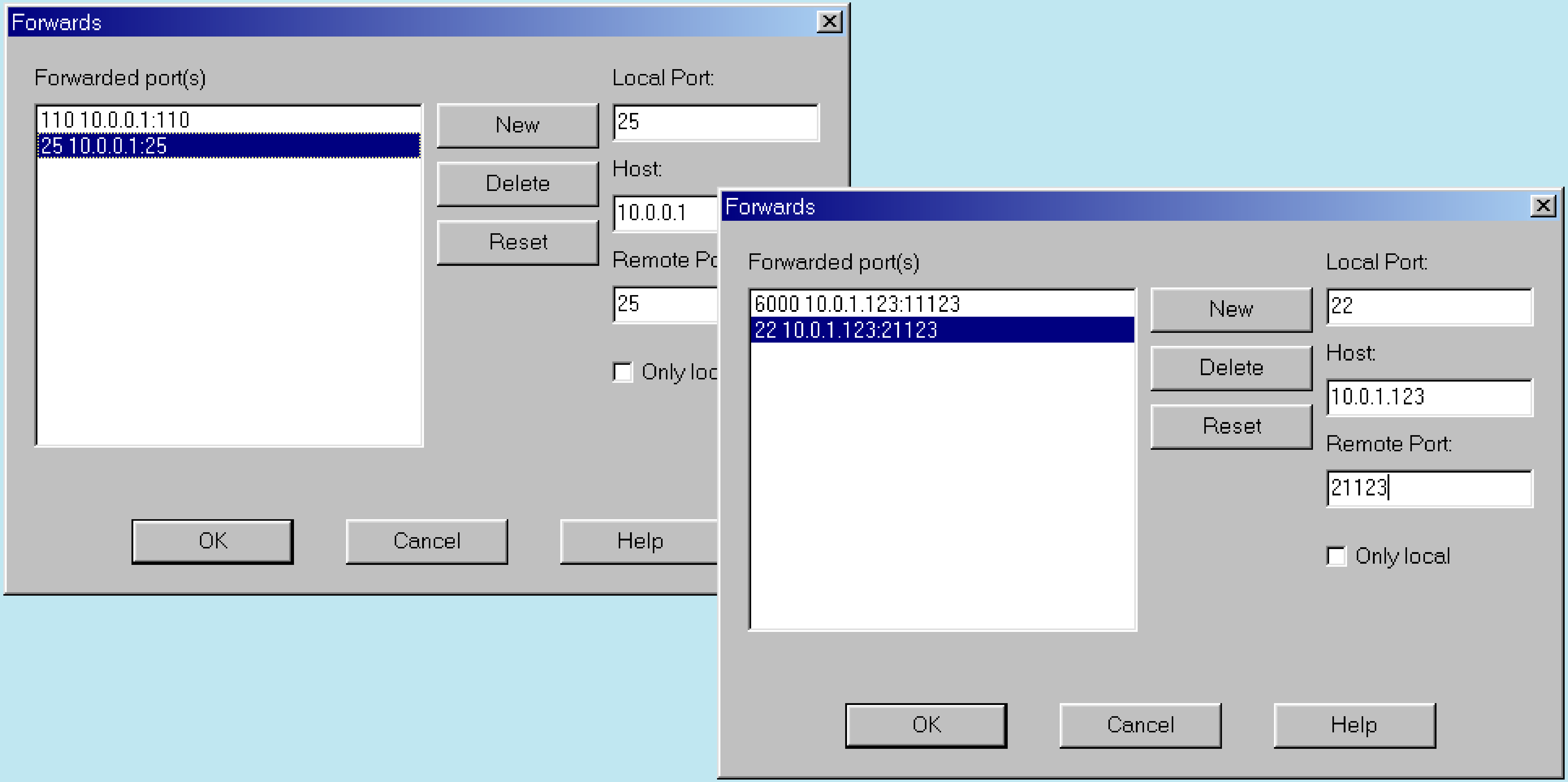
☑ Strict host key checking

Connection Attempts: 4

☐ Receive LF as CR/LF Copy EOL ● CR+LF ○ LF

☐ Send BS as DEL Paste EOL as ○ CR+LF ● LF

ssh local and remote port-forwarding



Forwards

Forwarded port(s)

110 10.0.0.1:110
25 10.0.0.1:25

Local Port: 25

Host: 10.0.0.1

Remote Pc 25

□ Only loc

Forwards

Forwarded port(s)

6000 10.0.1.123:11123
22 10.0.1.123:21123

Local Port: 22

Host: 10.0.1.123

Remote Port: 21123

□ Only local

OpenSSH ssh-client and port-forwarding configuration

- ssh -L 110:10.0.0.1:110 -L 25:10.0.0.1:25 user@10.0.0.1
- ssh -R 11123:10.0.1.123:6000 -R 21123:10.0.1.123:22 user@10.0.0.1

ssh daemons and server-side configuration

- OpenSSH (UNIX and Win NT/2000/XP only)

sshd.conf and some useful settings there

```
  .......
# Port 22
  Port 8022
  .......
# PasswordAuthentication yes
# PermitEmptyPasswords no
  .......
  X11Forwarding yes
# AllowTcpForwarding yes
  GatewayPorts yes
# X11DisplayOffset 10
# X11UseLocalhost yes
# KeepAlive yes
  ClientAliveInterval 15
  ClientAliveCountMax 3
  .......
```

authorized_keys(2) format and per-user (per-key) customization of sshd

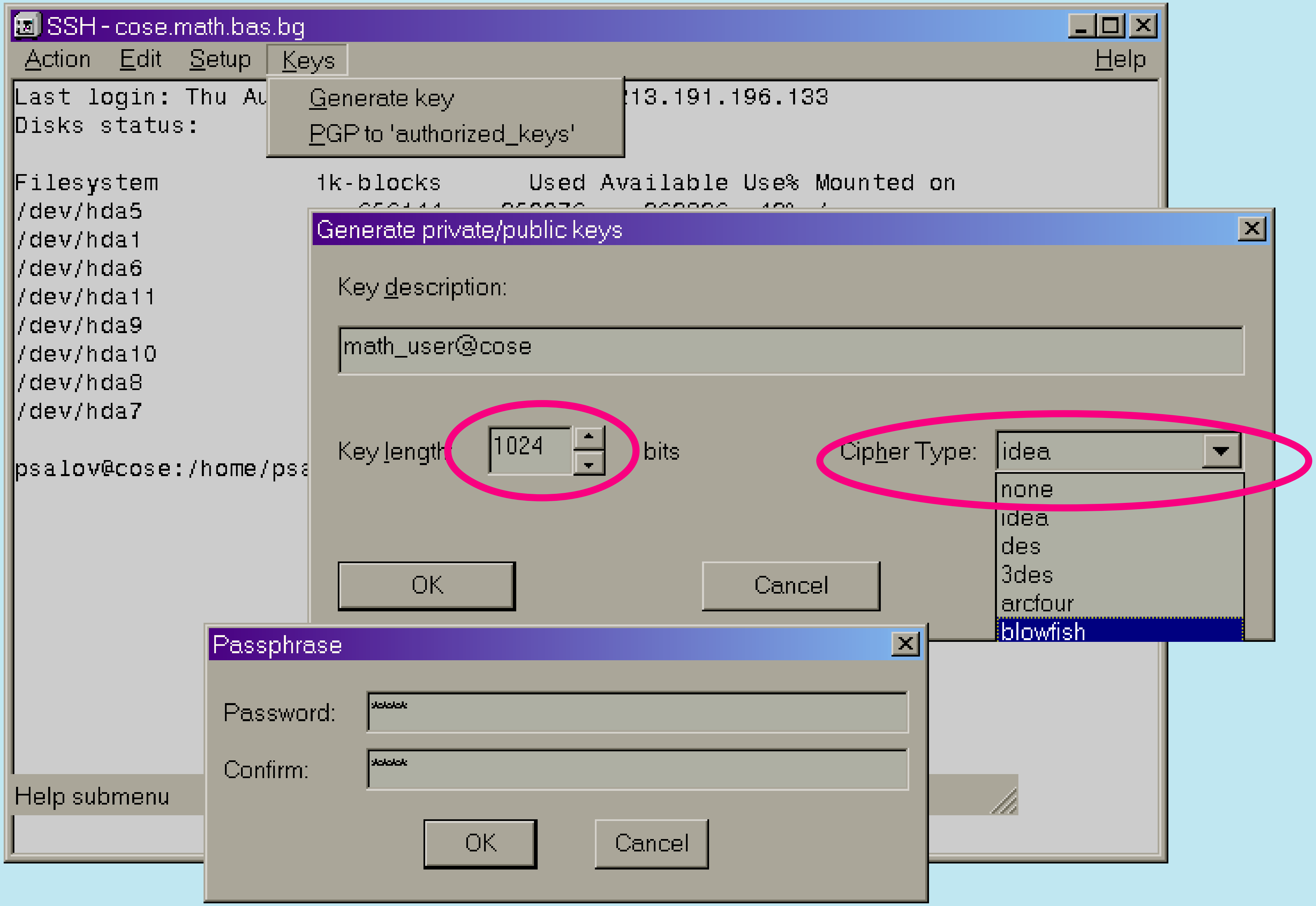
```
[ options ] { public key components }  { comment }
```

access-control options: `from="pattern-list" permitopen="host:port"`

feature-limiting options: `no-port-forwarding no-X11-forwarding no-agent-forwarding no-pty`

forced-command options: `command="command" environment="NAME=value"`

ssh key generation:



```
Last login: Thu Au                    13.191.196.133
Disks status:

Filesystem             1k-blocks      Used Available Use% Mounted on
/dev/hda5
/dev/hda1
/dev/hda6
/dev/hda11
/dev/hda9
/dev/hda10
/dev/hda8
/dev/hda7

psalov@cose:/home/psa
```

Key description: math_user@cose

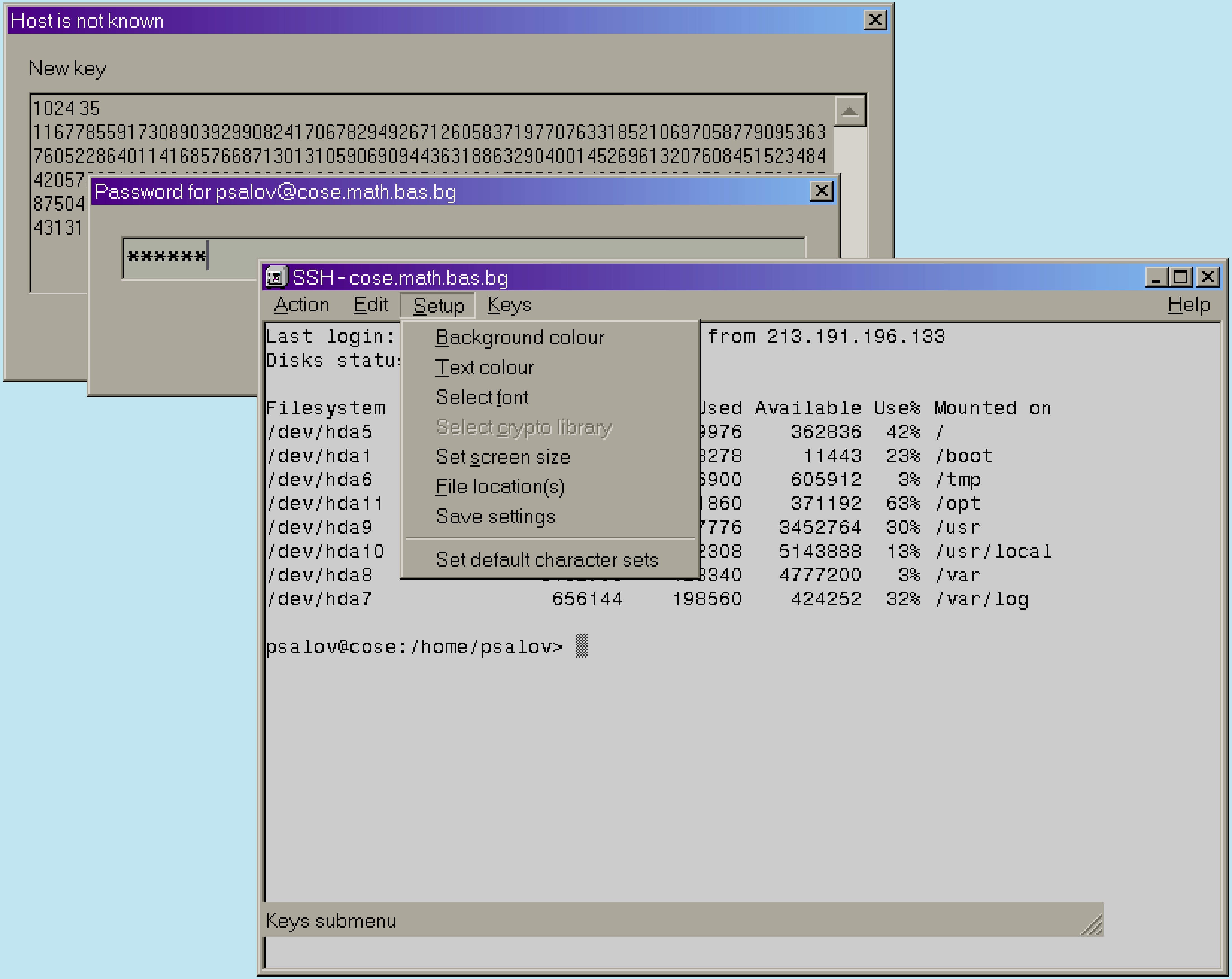
Key length 1024 bits

Cipher Type: idea

Password: ****

Confirm: ****

establishing an ssh connection and executing commands on the remote host (receiving character-based output):



New key

```
1024 35
1167785591730890392990824170678294926712605837197707633185210697058779095363
7605228640114168576687130131059069094436318863290400145269613207608451523484
42057
87504
43131
```

```
******
```

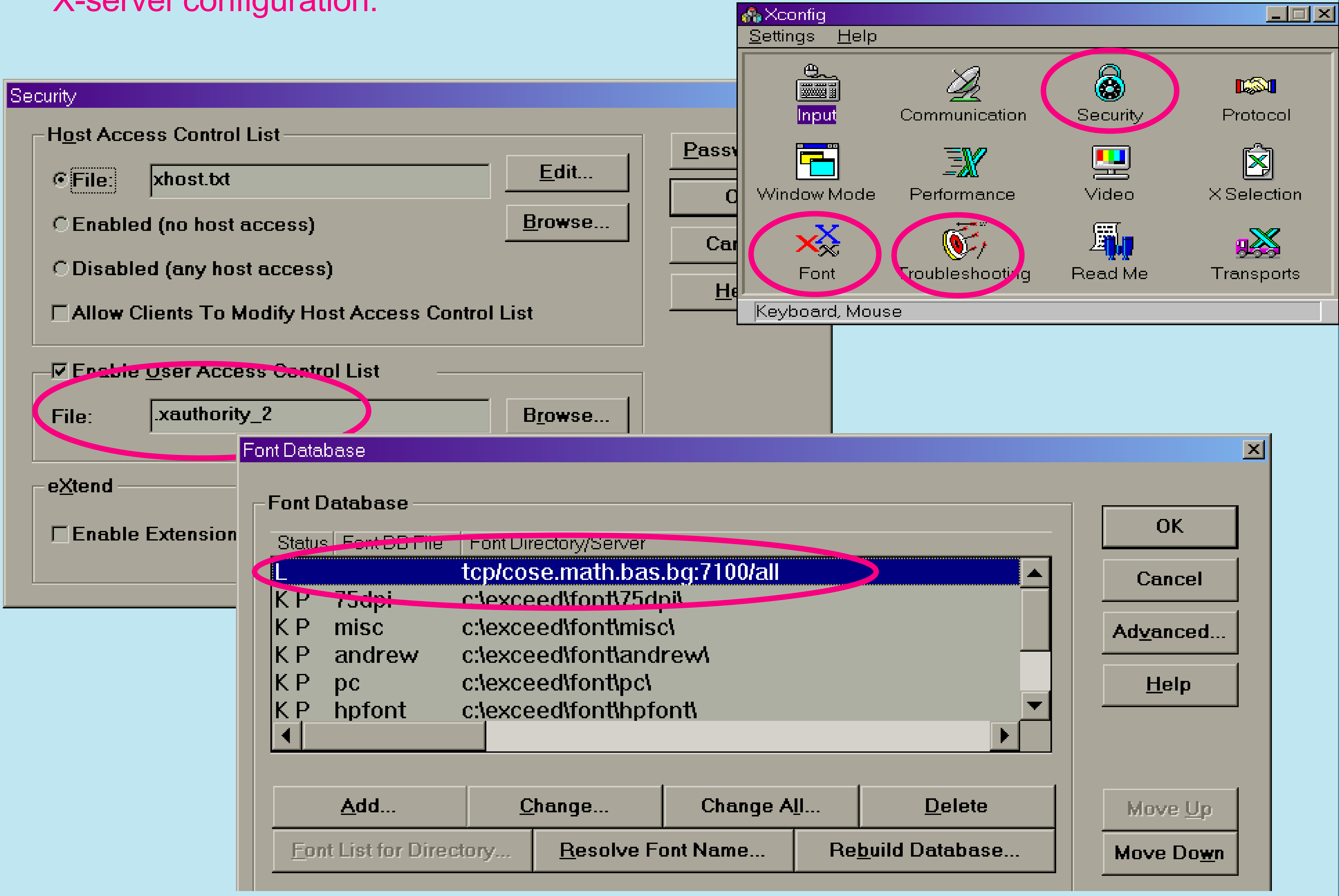
```
Last login:                                 from 213.191.196.133
Disks statu

Filesystem                                  Jsed Available Use% Mounted on
/dev/hda5                                   9976    362836  42% /
/dev/hda1                                   3278     11443  23% /boot
/dev/hda6                                   5900    605912   3% /tmp
/dev/hda11                                  1860    371192  63% /opt
/dev/hda9                                   7776   3452764  30% /usr
/dev/hda10                                  2308   5143888  13% /usr/local
/dev/hda8                                   3340   4777200   3% /var
/dev/hda7                         656144  198560    424252  32% /var/log

psalov@cose:/home/psalov>
```

Programs with graphics output or GUI

- UNIX graphical X-terminal;
- X-server, X-font server and X-clients;
- where does X-server reside?
- displays and how to connect to them?
- X-server access control (host-based via xhost and user-based via xauth);
- VNC servers / clients (Virtual Network Computing) as an extension of the idea of X-terminal.

X-servers for Windows: is there anything free except for OpenVNC?

X-server configuration:



Security

Host Access Control List

● File: xhost.txt

○ Enabled (no host access)

○ Disabled (any host access)

□ Allow Clients To Modify Host Access Control List

☑ Enable User Access Control List

File: .xauthority_2

eXtend

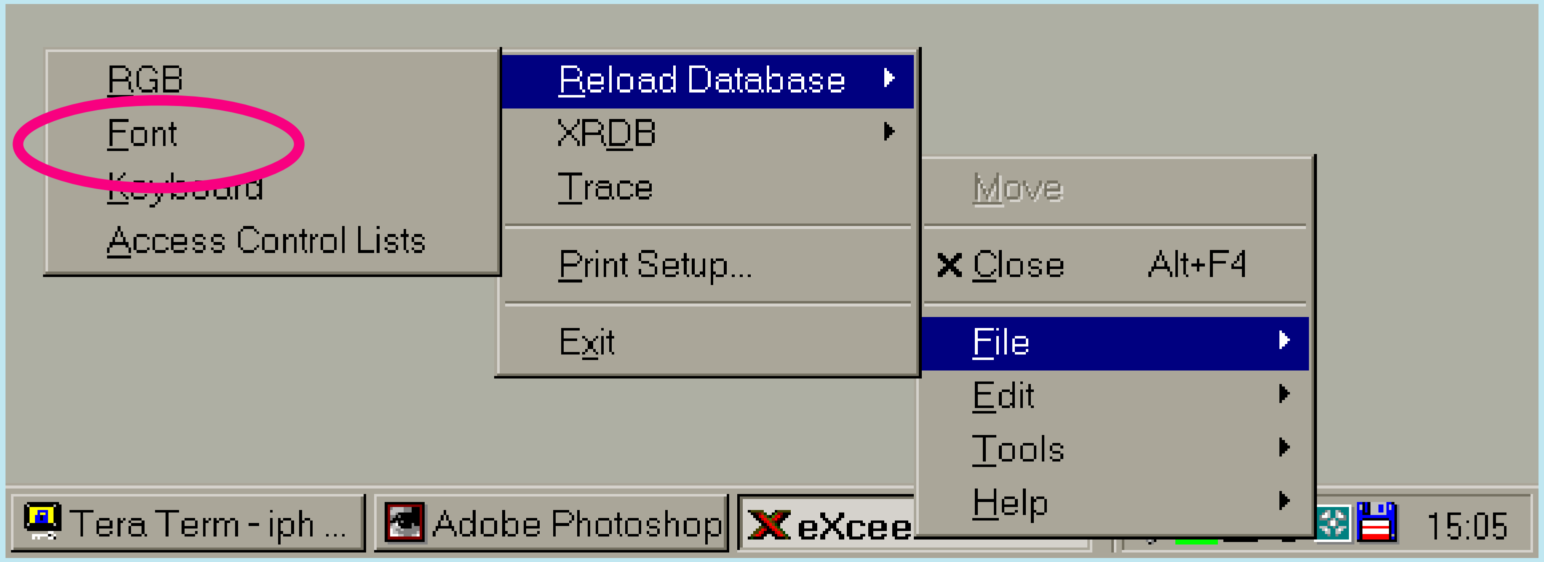
□ Enable Extension

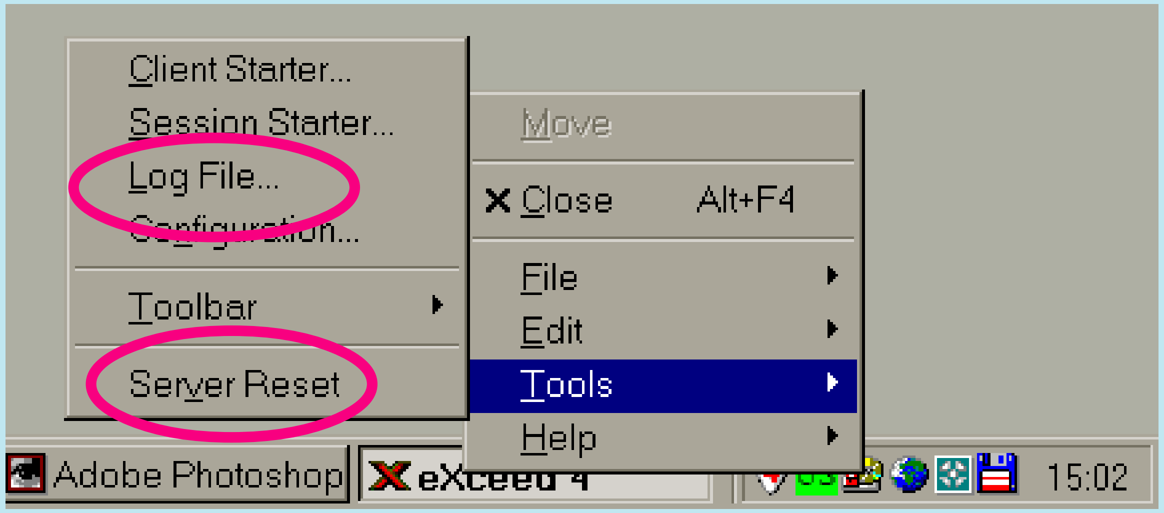
Font Database

Font Database

Status	Font DB File	Font Directory/Server
L		tcp/cose.math.bas.bg:7100/all
K P	75dpi	c:\exceed\font\75dpi\
K P	misc	c:\exceed\font\misc\
K P	andrew	c:\exceed\font\andrew\
K P	pc	c:\exceed\font\pc\
K P	hpfont	c:\exceed\font\hpfont\

X-server runtime reconfiguration and troubleshouting:

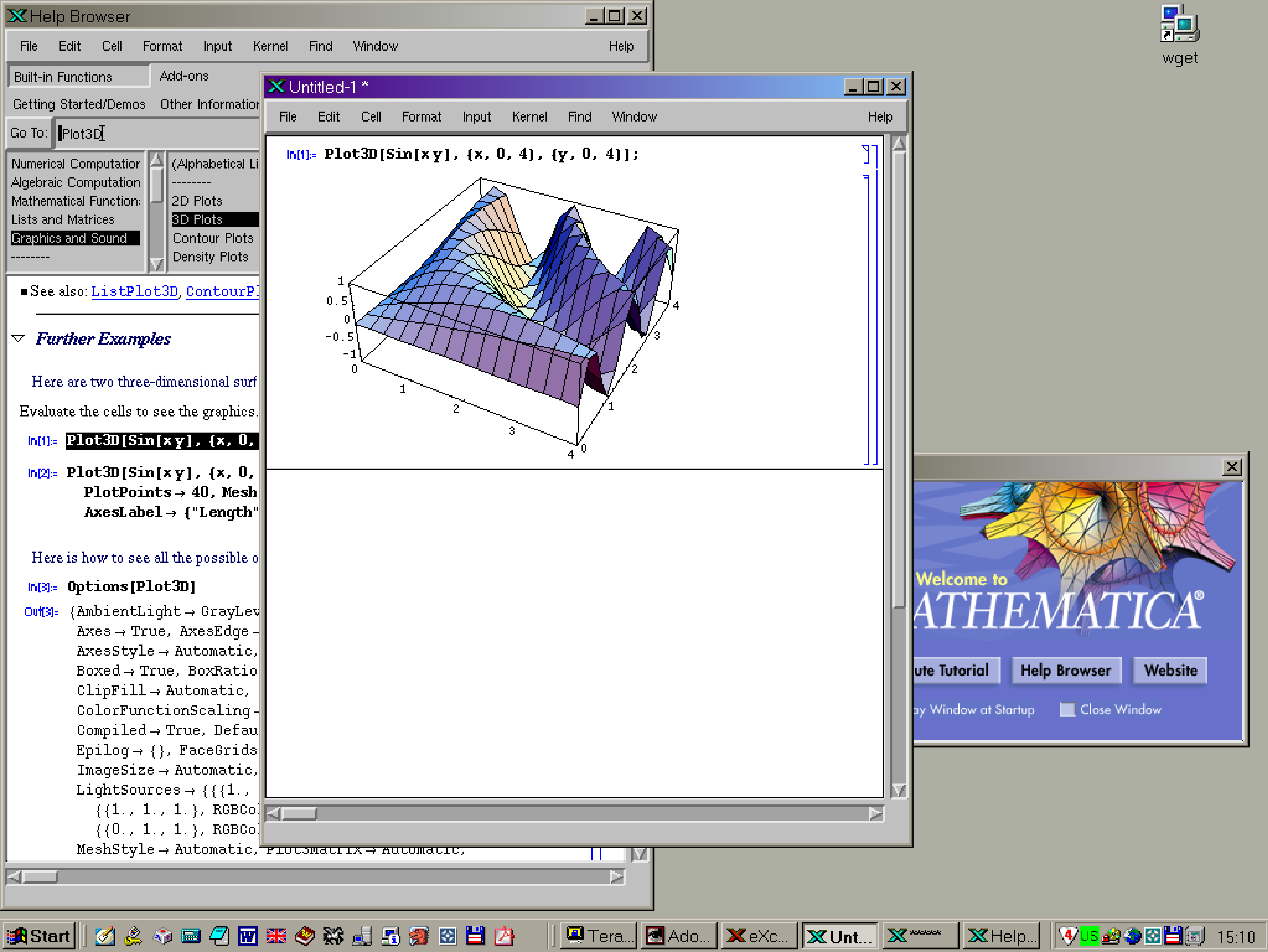




establishing an X-connection with the assistance of ssh in cases of:

1. application server (host where X-clients are executed) is running sshd without X11-forwarding, X-server host has a real IP;
2. application server is running sshd without X11-forwarding, X-server host is positioned behind a NAT-firewall.
3. application server is running sshd with X11-forwarding allowed;

#	Security settings of the X-server	ssh connection to ...	type of forwarding used	additional requirements
1	user-based (MIT-cookie)	application server	none	firewall should allow transit of X-traffic
2	user-based (MIT-cookie)	firewall host	remote	firewall should accept inbound X-traffic and allow gateway ports
3	host-based (only localhost allowed)	application server	X-11	none



Go To: Plot3D

■ See also: ListPlot3D, ContourP

Further Examples

Here are two three-dimensional surf

Evaluate the cells to see the graphics.

```
In[1]:= Plot3D[Sin[x y], {x, 0,

In[2]:= Plot3D[Sin[x y], {x, 0,
          PlotPoints → 40, Mesh
          AxesLabel → {"Length"
```

Here is how to see all the possible o

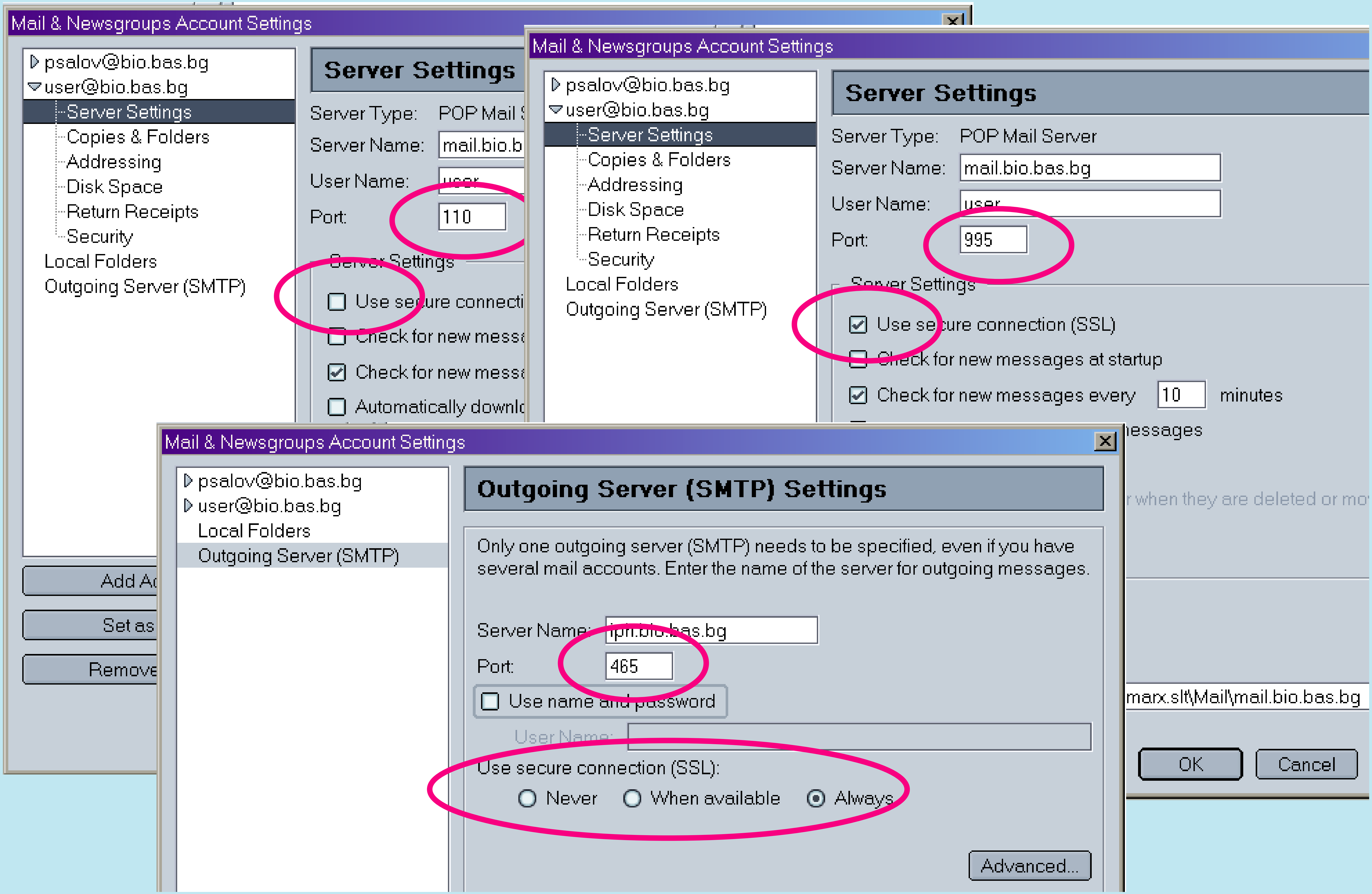
```
In[3]:= Options[Plot3D]

Out[3]= {AmbientLight → GrayLev
         Axes → True, AxesEdge -
         AxesStyle → Automatic,
         Boxed → True, BoxRatio
         ClipFill → Automatic,
         ColorFunctionScaling -
         Compiled → True, Defau
         Epilog → {}, FaceGrids
         ImageSize → Automatic,
         LightSources → {{{1.,
           {{1., 1., 1.}, RGBCo
           {{0., 1., 1.}, RGBCo
         MeshStyle → Automatic, PlotMatrix → Automatic,
```

```
In[1]:= Plot3D[Sin[x y], {x, 0, 4}, {y, 0, 4}];
```

“Client-server” tasks – exchange of specially formated information (files). Should we use ssh-tunneling or the alternatives?

- pop3 (post office protocol), smtp (simple mail transfer protocol), imap (internet mail access protocol) as examples;
- SSL (secure socket layer) and pop3s, smtps, imaps;
- TLS (transport layer security); pop3 (post office protocol), smtp (simple mail transfer protocol), imap (internet mail access protocol) as examples;
- certificates vs. public keys (is it really “vs.”?) and some common problems;
- ssh local port forwarding and configuration of the clients.
- server-side configuration; stunnel – SSL “wrapper” for no-SSL servers.

SSL (TLS)-enabled pop3, smtp , imap clients: Outlook Express, Netscape mail, Mozilla mail, Eudora, Pegassus mail ...



Mail & Newsgroups Account Settings

- psalov@bio.bas.bg
- user@bio.bas.bg
  - Server Settings
  - Copies & Folders
  - Addressing
  - Disk Space
  - Return Receipts
  - Security
- Local Folders
- Outgoing Server (SMTP)

Server Settings

Server Type: POP Mail S

Server Name: mail.bio.b

User Name: user

Port: 110

Server Settings

□ Use secure connecti

□ Check for new messa

☑ Check for new messa

□ Automatically downl

Add Ac

Set as

Remove

Mail & Newsgroups Account Settings

- psalov@bio.bas.bg
- user@bio.bas.bg
  - Server Settings
  - Copies & Folders
  - Addressing
  - Disk Space
  - Return Receipts
  - Security
- Local Folders
- Outgoing Server (SMTP)

Server Settings

Server Type: POP Mail Server

Server Name: mail.bio.bas.bg

User Name: user

Port: 995

Server Settings

☑ Use secure connection (SSL)

□ Check for new messages at startup

☑ Check for new messages every 10 minutes

essages

r when they are deleted or mo

marx.slt\Mail\mail.bio.bas.bg

OK

Cancel

Mail & Newsgroups Account Settings

- psalov@bio.bas.bg
- user@bio.bas.bg
- Local Folders
- Outgoing Server (SMTP)

Outgoing Server (SMTP) Settings

Only one outgoing server (SMTP) needs to be specified, even if you have several mail accounts. Enter the name of the server for outgoing messages.

Server Name: ipn.bio.bas.bg

Port: 465

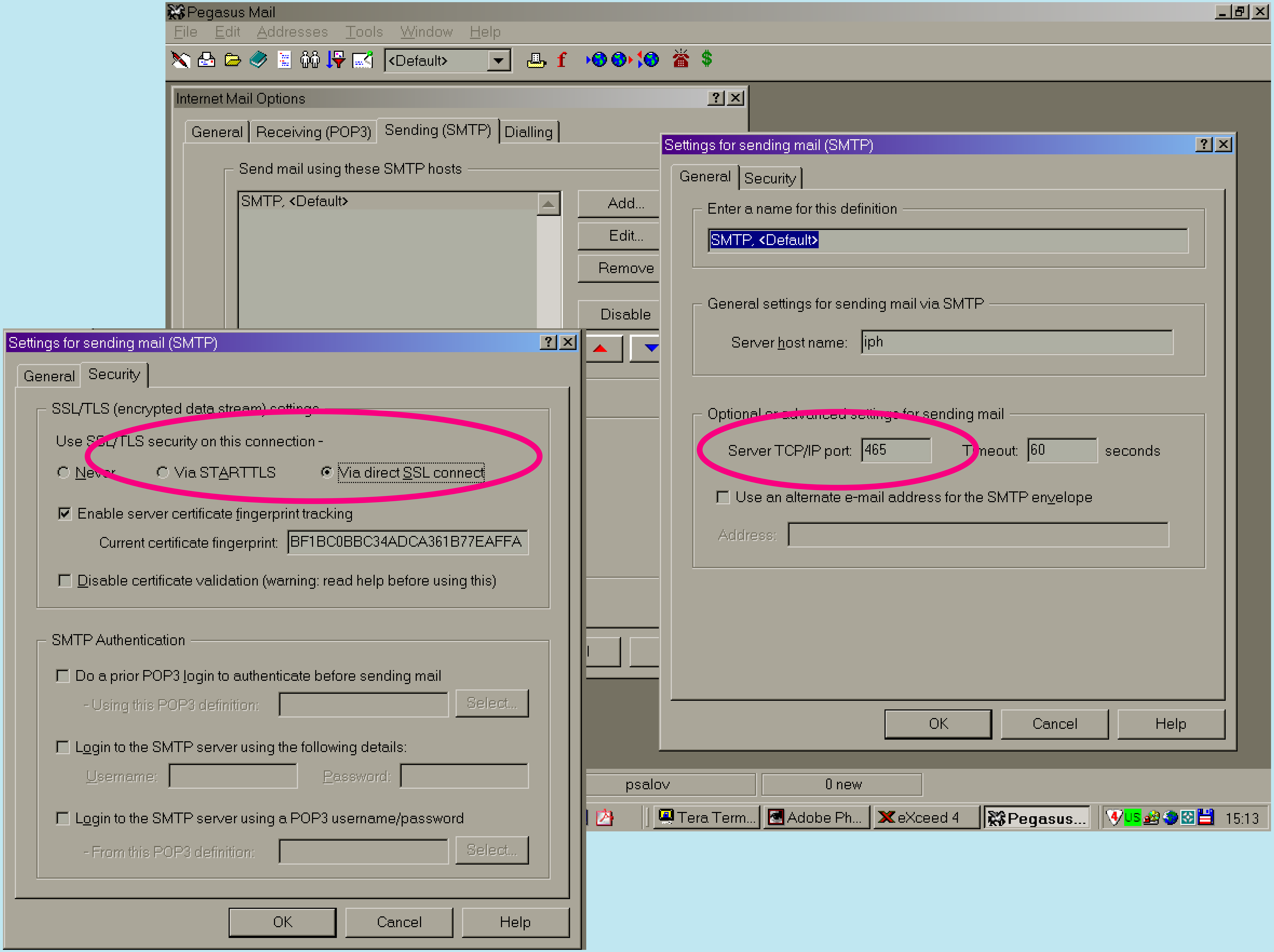
□ Use name and password

User Name:

Use secure connection (SSL):

○ Never ○ When available ● Always

Advanced...



Internet Mail Options

General | Receiving (POP3) | Sending (SMTP) | Dialling

Send mail using these SMTP hosts

SMTP, <Default>

psalov

0 new

Settings for sending mail (SMTP)

General | Security

SSL/TLS (encrypted data stream) settings

Use SSL/TLS security on this connection -

○ Never ○ Via STARTTLS ● Via direct SSL connect

☑ Enable server certificate fingerprint tracking

Current certificate fingerprint: BF1BC0BBC34ADCA361B77EAFFA

□ Disable certificate validation (warning: read help before using this)

SMTP Authentication

□ Do a prior POP3 login to authenticate before sending mail

- Using this POP3 definition:

□ Login to the SMTP server using the following details:

Username: Password:

□ Login to the SMTP server using a POP3 username/password

- From this POP3 definition:

Settings for sending mail (SMTP)

General | Security

Enter a name for this definition

SMTP, <Default>

General settings for sending mail via SMTP

Server host name: iph

Optional or advanced settings for sending mail

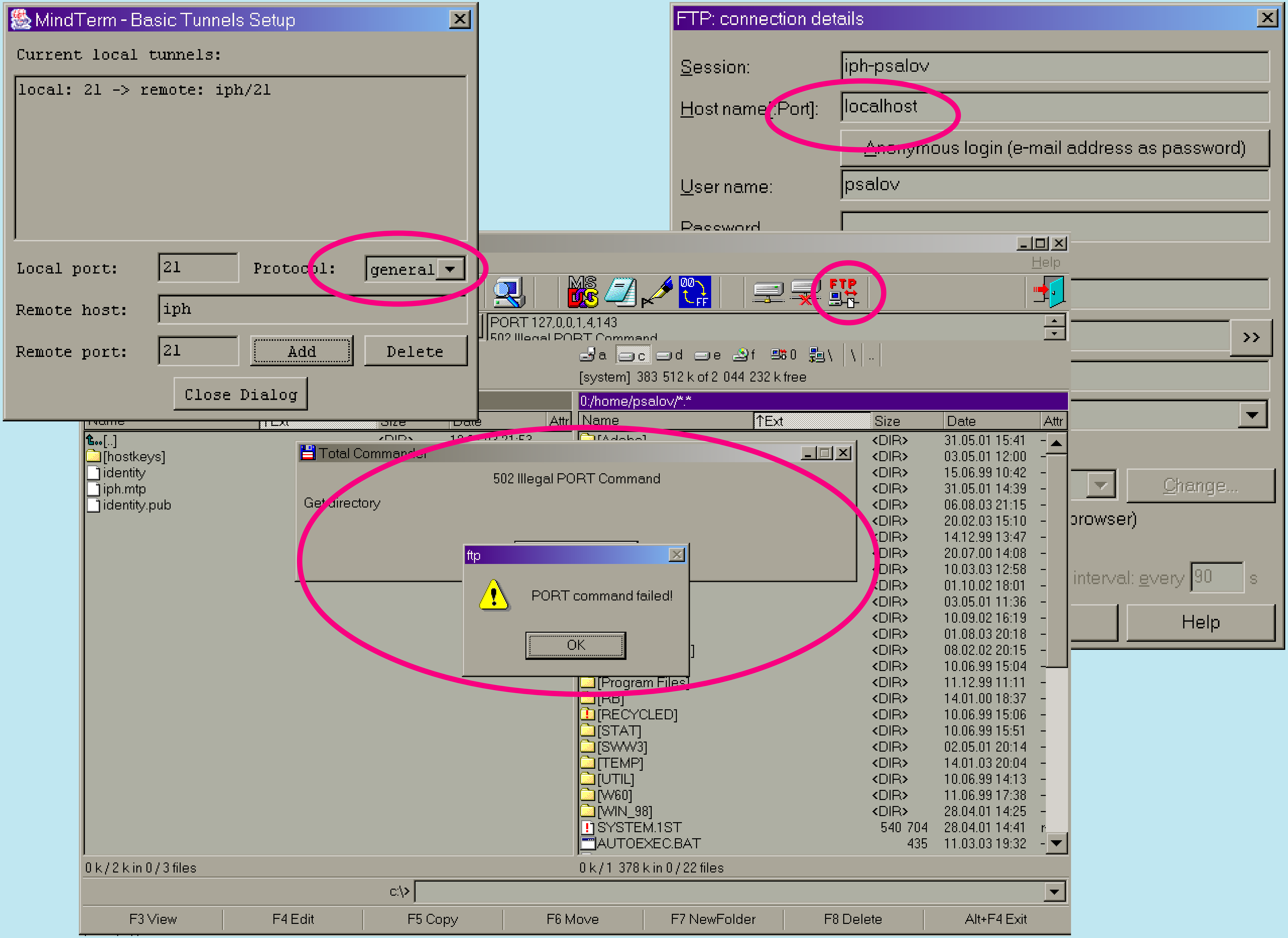
Server TCP/IP port: 465 Timeout: 60 seconds

□ Use an alternate e-mail address for the SMTP envelope

Address:

Arbitrary file transfers

- FTP pecularities and the pecularities of ssh-tunneling of FTP; TLS-enabled FTP-servers and clients;
- netbios, SMB, samba (access of Win-hosts to UNIX-resources);
- smb-client and smbfs – samba inside-out (access of UNIX-hosts to Win-resources);
- SSL-enabled netbios clients?
- scp and sftp – file transfer subsystems of ssh



MindTerm - Basic Tunnels Setup

Current local tunnels:

```
local: 21 -> remote: iph/21
```

Local port: 21 Protocol: general

Remote host: iph

Remote port: 21

FTP: connection details

Session: iph-psalov

Host name[:Port]: localhost

User name: psalov

Password

interval: every 90 s

```
PORT 127,0,0,1,4,143
502 Illegal PORT Command
```

[system] 383 512 k of 2 044 232 k free

0:/home/psalov/*.*

Name	Ext	Size	Date	Attr
[..]				
[hostkeys]				
identity				
iph.mtp				
identity.pub				

0 k / 2 k in 0 / 3 files

Name	↑Ext	Size	Date	Attr
[Adobe]		<DIR>	31.05.01 15:41	-
		<DIR>	03.05.01 12:00	-
		<DIR>	15.06.99 10:42	-
		<DIR>	31.05.01 14:39	-
		<DIR>	06.08.03 21:15	-
		<DIR>	20.02.03 15:10	-
		<DIR>	14.12.99 13:47	-
		<DIR>	20.07.00 14:08	-
		<DIR>	10.03.03 12:58	-
		<DIR>	01.10.02 18:01	-
		<DIR>	03.05.01 11:36	-
		<DIR>	10.09.02 16:19	-
		<DIR>	01.08.03 20:18	-
]		<DIR>	08.02.02 20:15	-
		<DIR>	10.06.99 15:04	-
[Program Files]		<DIR>	11.12.99 11:11	-
[RB]		<DIR>	14.01.00 18:37	-
[RECYCLED]		<DIR>	10.06.99 15:06	-
[STAT]		<DIR>	10.06.99 15:51	-
[SWW3]		<DIR>	02.05.01 20:14	-
[TEMP]		<DIR>	14.01.03 20:04	-
[UTIL]		<DIR>	10.06.99 14:13	-
[W60]		<DIR>	11.06.99 17:38	-
[WIN_98]		<DIR>	28.04.01 14:25	-
SYSTEM.1ST		540 704	28.04.01 14:41	r
AUTOEXEC.BAT		435	11.03.03 19:32	-

0 k / 1 378 k in 0 / 22 files

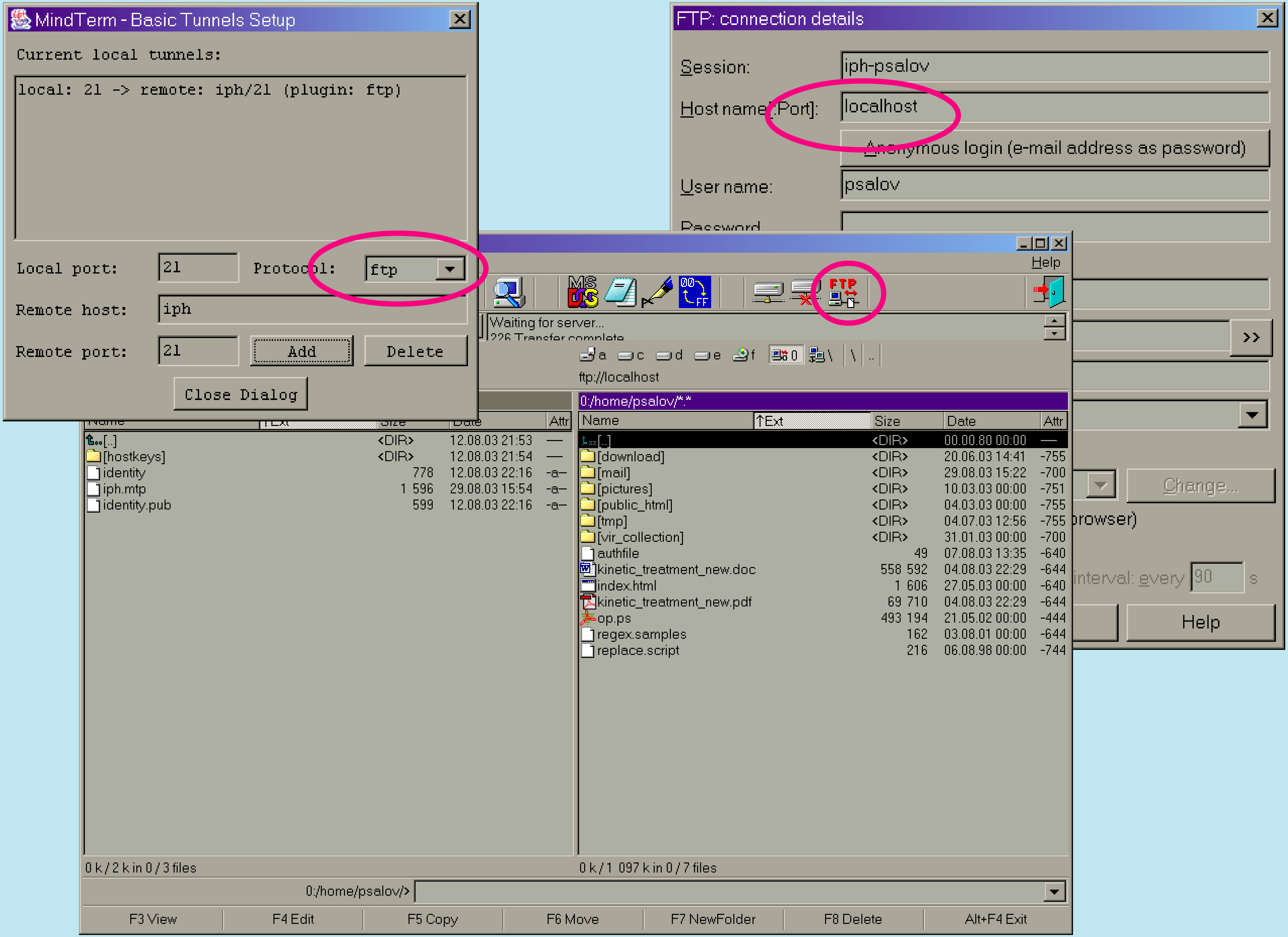
Total Commander

502 Illegal PORT Command

Get directory

ftp

PORT command failed!



MindTerm - Basic Tunnels Setup

```
Current local tunnels:
local: 21 -> remote: iph/21 (plugin: ftp)

Local port:  21        Protocol: ftp
Remote host: iph
Remote port: 21        [Add]  [Delete]

[Close Dialog]
```

FTP: connection details

```
Session:           iph-psalov
Host name[:Port]:  localhost
                   Anonymous login (e-mail address as password)
User name:         psalov
Password
```

```
Waiting for server...
226 Transfer complete
ftp://localhost
```

```
Name                        Ext   Size     Date            Attr
[..]                              <DIR>    12.08.03 21:53  —
[hostkeys]                        <DIR>    12.08.03 21:54  —
identity                            778    12.08.03 22:16  -a–
iph.mtp                           1 596    29.08.03 15:54  -a–
identity.pub                        599    12.08.03 22:16  -a–

0 k / 2 k in 0 / 3 files
```

```
0:/home/psalov/*.*
Name                        ↑Ext   Size     Date            Attr
[..]                               <DIR>    00.00.80 00:00  —
[download]                         <DIR>    20.06.03 14:41  -755
[mail]                             <DIR>    29.08.03 15:22  -700
[pictures]                         <DIR>    10.03.03 00:00  -751
[public_html]                      <DIR>    04.03.03 00:00  -755
[tmp]                              <DIR>    04.07.03 12:56  -755
[vir_collection]                   <DIR>    31.01.03 00:00  -700
authfile                               49   07.08.03 13:35  -640
kinetic_treatment_new.doc         558 592   04.08.03 22:29  -644
index.html                          1 606   27.05.03 00:00  -640
kinetic_treatment_new.pdf          69 710   04.08.03 22:29  -644
op.ps                             493 194   21.05.02 00:00  -444
regex.samples                         162   03.08.01 00:00  -644
replace.script                        216   06.08.98 00:00  -744

0 k / 1 097 k in 0 / 7 files
```

```
0:/home/psalov/>
```

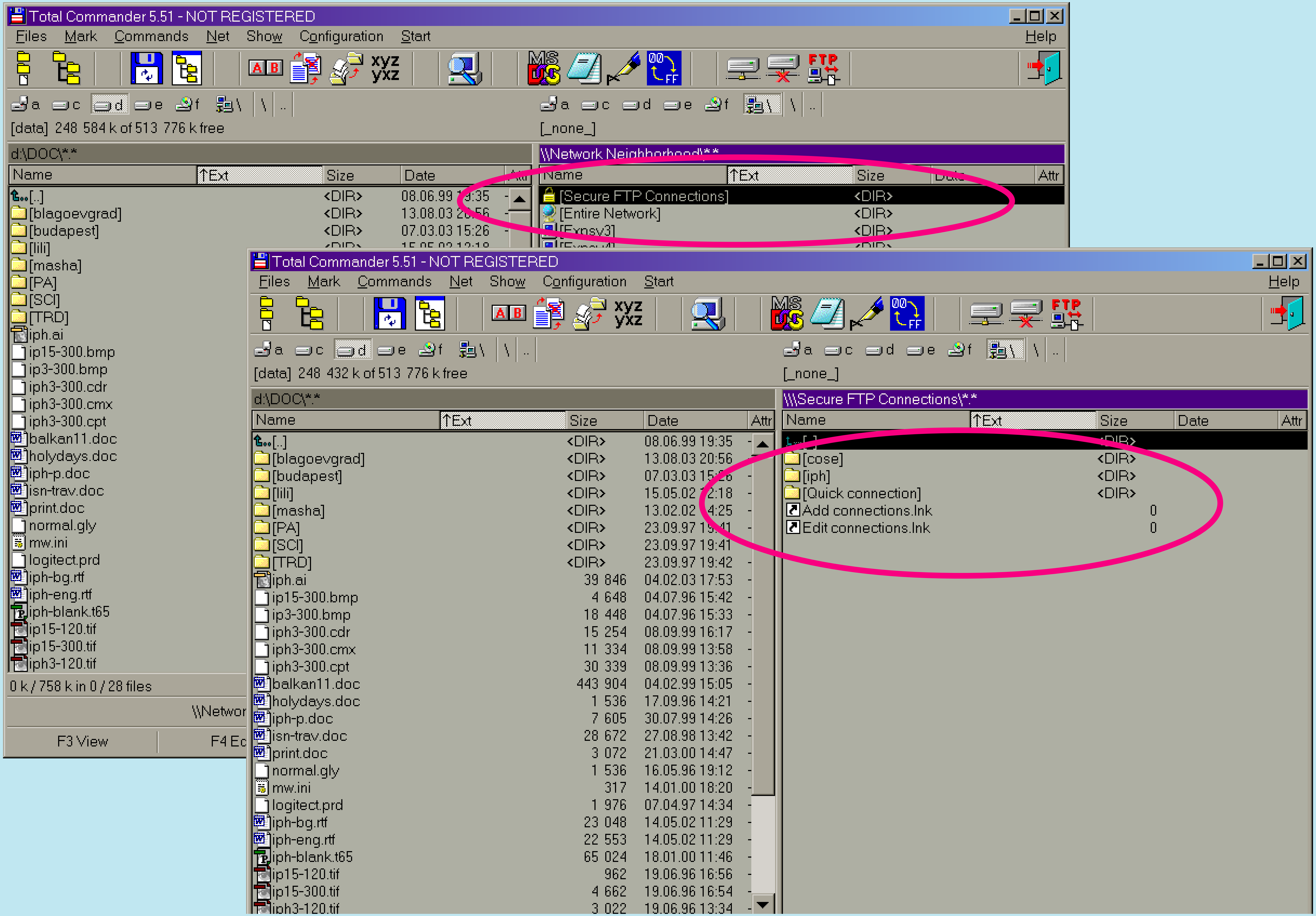
samba server configuration (smb.conf)

```
[global]
# workgroup = NT-Domain-Name or Workgroup-Name
   netbios name = TOX3
   workgroup = PHYSIOL
   browse list = yes
   browseable = yes

# Browser Control Options:
   local master = yes

# OS Level determines the precedence of this server in master browser elections. The default
    value should be reasonable
   os level = 65

# Security mode. Most people will want user level security. See security_level.txt for details.
   security = share

# Password Level allows matching of _n_ characters of the password for all combinations of upper
    and lower case
   password level = 8
   username level = 8

# Case Preservation can be handy - system default is _no_ NOTE: These can be set on a per share
    basis
   preserve case = yes
   short preserve case = no

# Default case is normally upper case for all DOS files
   default case = lower

# Be very careful with case sensitivity - it can break things!
  case sensitive = no

# How much free space to report to the clients (DOS connectivity)
  max disk size = 1000
```

samba server configuration (smb.conf)

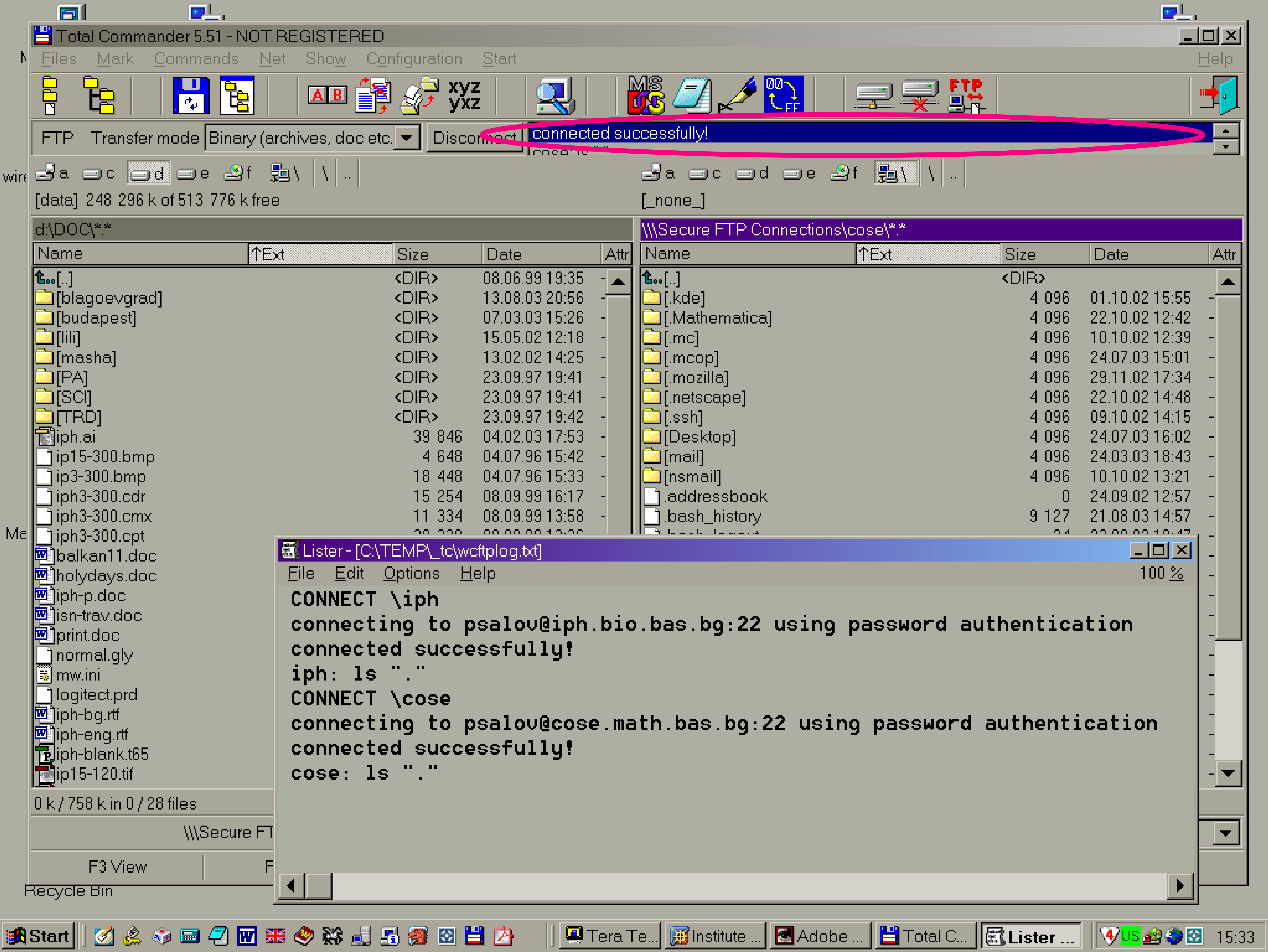
```
[e]
   comment = software archive
   browseable = yes
   path = /mnt/e
   only guest = yes
   writable = no
   printable = no
   veto files = /iso/recycled/*.swp/
   public = yes
;
[opt]
   comment = software archive
   browseable = yes
   path = /opt
   only guest = yes
   writable = no
   printable = no
   public = yes
;
[cd]
   comment = r_cd
   browseable = yes
   path = /mnt/r_cd
   only guest = yes
   writable = no
   printable = no
   public = yes
;
```

scp and sftp – file transfer subsystems of ssh


Total Commander 5.51 - NOT REGISTERED
Files Mark Commands Net Show Configuration Start Help
a c d e f \ \ ..
F3 View
F4 Ed

```
[data] 248 584 k of 513 776 k free                    [_none_]
d:\DOC\*.*                                             \\Network Neighborhood\*.*
Name            ↑Ext     Size    Date                  Name                        ↑Ext   Size    Date   Attr
[..]                     <DIR>   08.06.99 19:35        [Secure FTP Connections]           <DIR>
[blagoevgrad]            <DIR>   13.08.03 20:56        [Entire Network]                   <DIR>
[budapest]               <DIR>   07.03.03 15:26        [Expsy3]                           <DIR>
[lili]                   <DIR>   15.05.02 12:18        [Expsy4]                           <DIR>
[masha]
[PA]
[SCI]
[TRD]
iph.ai
ip15-300.bmp
ip3-300.bmp
iph3-300.cdr
iph3-300.cmx
iph3-300.cpt
balkan11.doc
holydays.doc
iph-p.doc
isn-trav.doc
print.doc
normal.gly
mw.ini
logitect.prd
iph-bg.rtf
iph-eng.rtf
iph-blank.t65
ip15-120.tif
ip15-300.tif
iph3-120.tif
0 k / 758 k in 0 / 28 files
\\Networ
```

```
[data] 248 432 k of 513 776 k free                     [_none_]
d:\DOC\*.*                                             \\Secure FTP Connections\*.*
Name            ↑Ext     Size      Date          Attr  Name                   ↑Ext   Size    Date   Attr
[..]                     <DIR>     08.06.99 19:35  -   [..]                          <DIR>
[blagoevgrad]            <DIR>     13.08.03 20:56  -   [cose]                        <DIR>
[budapest]               <DIR>     07.03.03 15:26  -   [iph]                         <DIR>
[lili]                   <DIR>     15.05.02 12:18  -   [Quick connection]            <DIR>
[masha]                  <DIR>     13.02.02 14:25  -   Add connections.lnk               0
[PA]                     <DIR>     23.09.97 19:41  -   Edit connections.lnk              0
[SCI]                    <DIR>     23.09.97 19:41  -
[TRD]                    <DIR>     23.09.97 19:42  -
iph.ai                   39 846    04.02.03 17:53  -
ip15-300.bmp              4 648    04.07.96 15:42  -
ip3-300.bmp              18 448    04.07.96 15:33  -
iph3-300.cdr             15 254    08.09.99 16:17  -
iph3-300.cmx             11 334    08.09.99 13:58  -
iph3-300.cpt             30 339    08.09.99 13:36  -
balkan11.doc            443 904    04.02.99 15:05  -
holydays.doc              1 536    17.09.96 14:21  -
iph-p.doc                 7 605    30.07.99 14:26  -
isn-trav.doc             28 672    27.08.98 13:42  -
print.doc                 3 072    21.03.00 14:47  -
normal.gly                1 536    16.05.96 19:12  -
mw.ini                      317    14.01.00 18:20  -
logitect.prd              1 976    07.04.97 14:34  -
iph-bg.rtf               23 048    14.05.02 11:29  -
iph-eng.rtf              22 553    14.05.02 11:29  -
iph-blank.t65            65 024    18.01.00 11:46  -
ip15-120.tif                962    19.06.96 16:56  -
ip15-300.tif              4 662    19.06.96 16:54  -
iph3-120.tif              3 022    19.06.96 13:34  -
```



connected successfully!

[data] 248 296 k of 513 776 k free

d:\DOC\*.*

```
Name                     Ext   Size    Date            Attr
[..]                           <DIR>   08.06.99 19:35  -
[blagoevgrad]                  <DIR>   13.08.03 20:56  -
[budapest]                     <DIR>   07.03.03 15:26  -
[lili]                         <DIR>   15.05.02 12:18  -
[masha]                        <DIR>   13.02.02 14:25  -
[PA]                           <DIR>   23.09.97 19:41  -
[SCI]                          <DIR>   23.09.97 19:41  -
[TRD]                          <DIR>   23.09.97 19:42  -
iph.ai                         39 846  04.02.03 17:53  -
ip15-300.bmp                    4 648  04.07.96 15:42  -
ip3-300.bmp                    18 448  04.07.96 15:33  -
iph3-300.cdr                   15 254  08.09.99 16:17  -
iph3-300.cmx                   11 334  08.09.99 13:58  -
iph3-300.cpt
balkan11.doc
holydays.doc
iph-p.doc
isn-trav.doc
print.doc
normal.gly
mw.ini
logitect.prd
iph-bg.rtf
iph-eng.rtf
iph-blank.t65
ip15-120.tif
```

0 k / 758 k in 0 / 28 files

[_none_]

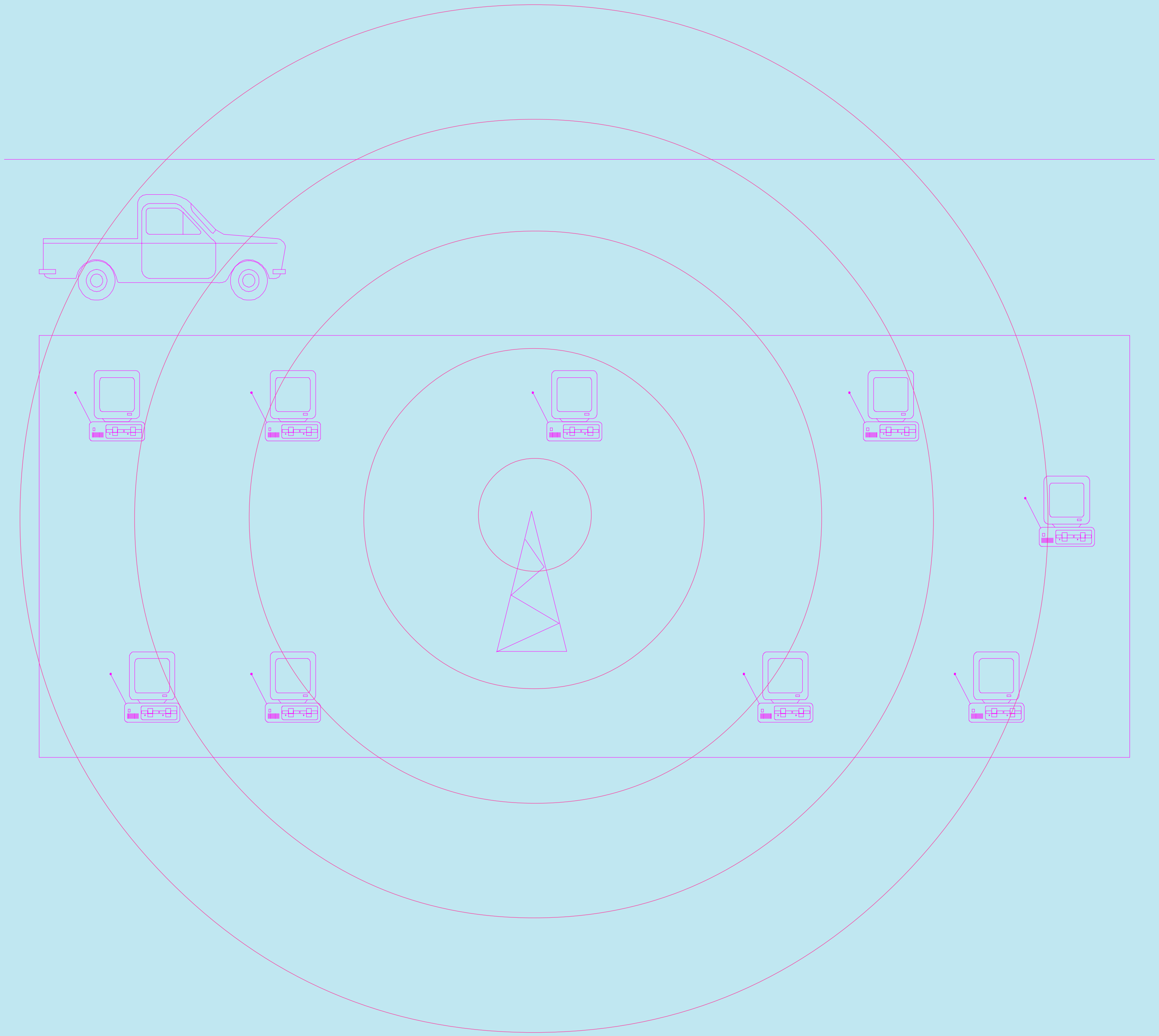
\\Secure FTP Connections\cose\*.*

```
Name                     Ext   Size    Date            Attr
[..]                           <DIR>
[.kde]                          4 096  01.10.02 15:55  -
[.Mathematica]                  4 096  22.10.02 12:42  -
[.mc]                           4 096  10.10.02 12:39  -
[.mcop]                         4 096  24.07.03 15:01  -
[.mozilla]                      4 096  29.11.02 17:34  -
[.netscape]                     4 096  22.10.02 14:48  -
[.ssh]                          4 096  09.10.02 14:15  -
[Desktop]                       4 096  24.07.03 16:02  -
[mail]                          4 096  24.03.03 18:43  -
[nsmail]                        4 096  10.10.02 13:21  -
.addressbook                        0  24.09.02 12:57  -
.bash_history                   9 127  21.08.03 14:57  -
```

Lister - [C:\TEMP_tc\wcftplog.txt]

```
CONNECT \iph
connecting to psalov@iph.bio.bas.bg:22 using password authentication
connected successfully!
iph: ls "."
CONNECT \cose
connecting to psalov@cose.math.bas.bg:22 using password authentication
connected successfully!
cose: ls "."
```

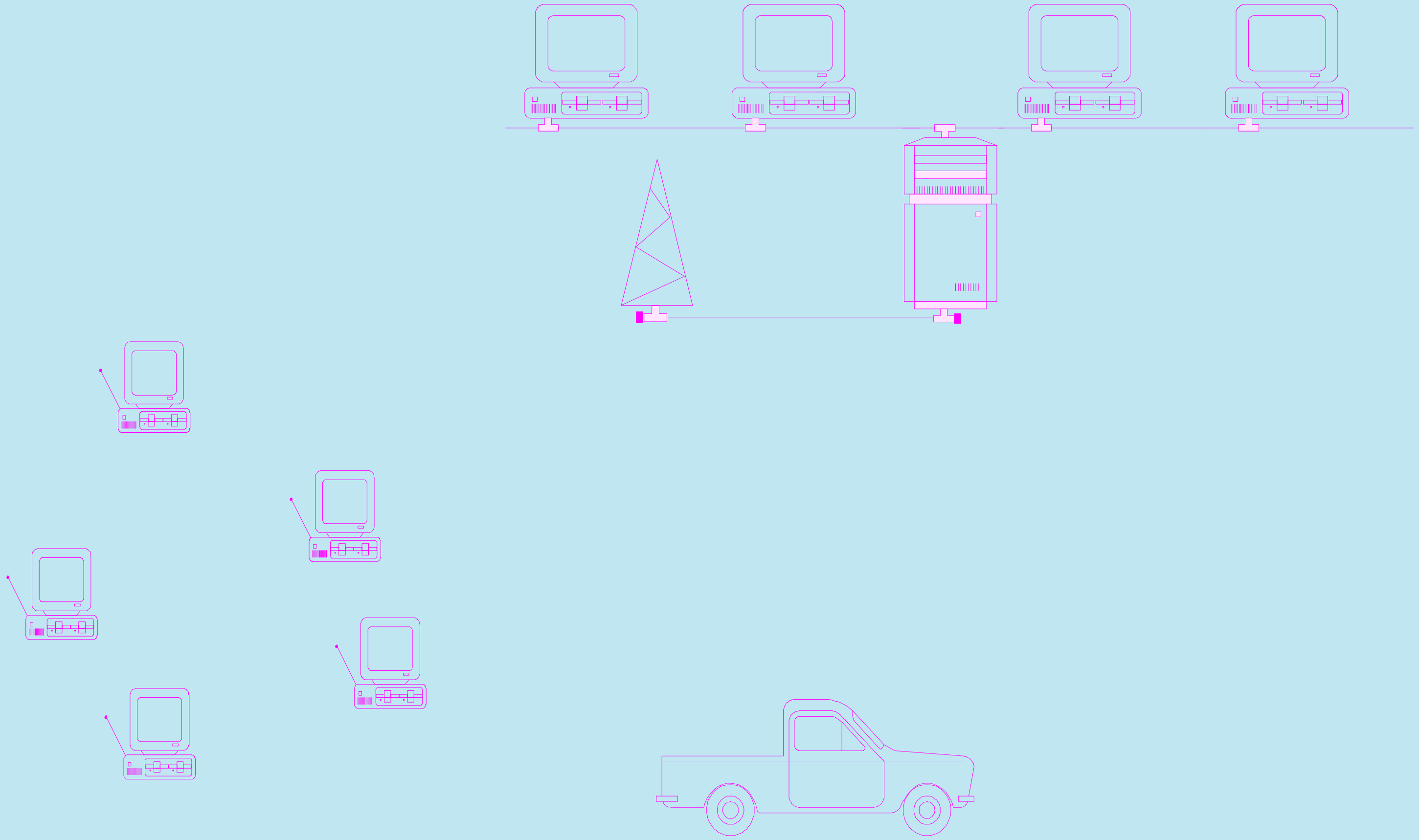
The wireless “nightmare” – could we releave it using ssh?



WEP (Wired Equivalent Privacy) – what is it and how secure is it?

Pecularities of the wireless ethernet communications.

- SSID, SSID broadcasts and WEP keys;
- arp (Address Resolution Protocol) problems with WEP;
- additional anti-eavesdropping features of WAPs (MAC-filters);
- DHCP servers on WAP – to use or not to use?
- authentication gateways – PAM-netfilter, NoCat, sshd



Building an authentication gateway with a “default” Linux installation.

- necessary components (what NOT to uninstall !): bash; iptables; OpenSSH; sudo;
- configuration:

/etc/ssh/sshd.conf:

```
PasswordAuthentication no || PermitEmptyPasswords no
ClientAliveInterval 15
ClientAliveCountMax 3
```

/etc/init.d/ipfw_start:

```
iptables -t filter -N wrls_login
```

/etc/sudoers:

```
%wireless ALL = NOPASSWD: \

/bin/iptables -t filter -[ID] wrls_login -s [0-9]*.[0-9]*.[0-9]*.[0-9]* -j RETURN
```

~/.ssh/authorized_keys2:

```
command="
    trap '. .bash_logout ; exit' 2 ;
    trap '. .bash_logout' 0 ;
    sudo iptables -t filter -I wrls_login -s ${SSH_CLIENT%% *} -j RETURN ;
    read -n 1 -p 'Press any key to logout:' l_out ;
    sudo iptables -t filter -D wrls_login -s ${SSH_CLIENT%% *} -j RETURN
    " ssh-dss AAAAB3NzaC1kc3MAAACBAKolq.........jOuTNWItVG4mkV39g= wireless_test@tox3
```

~/.bash_logout:

```
sudo iptables -t filter -D wrls_login -s ${SSH_CLIENT%% *} -j RETURN
```