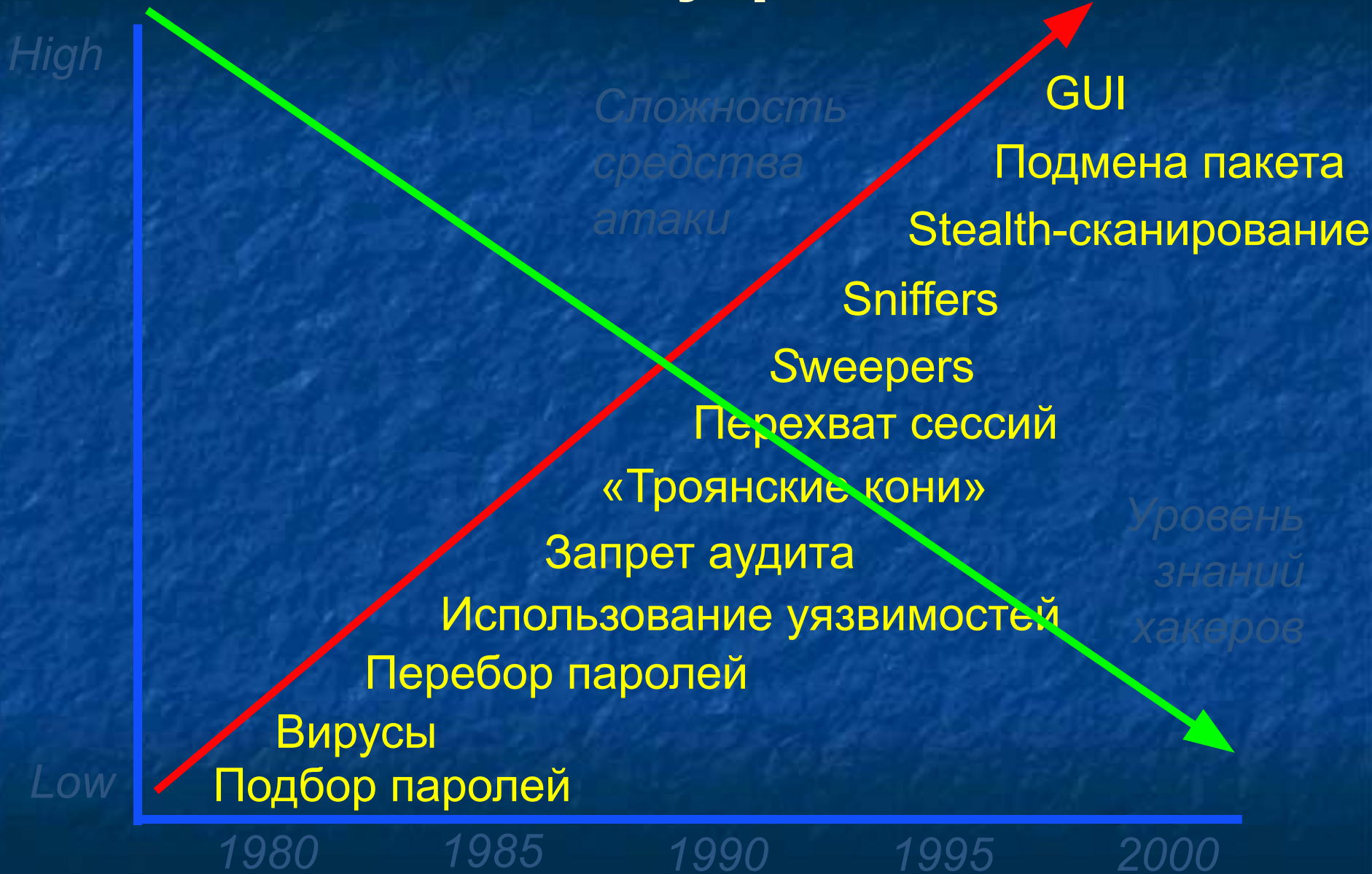


# Рост угроз



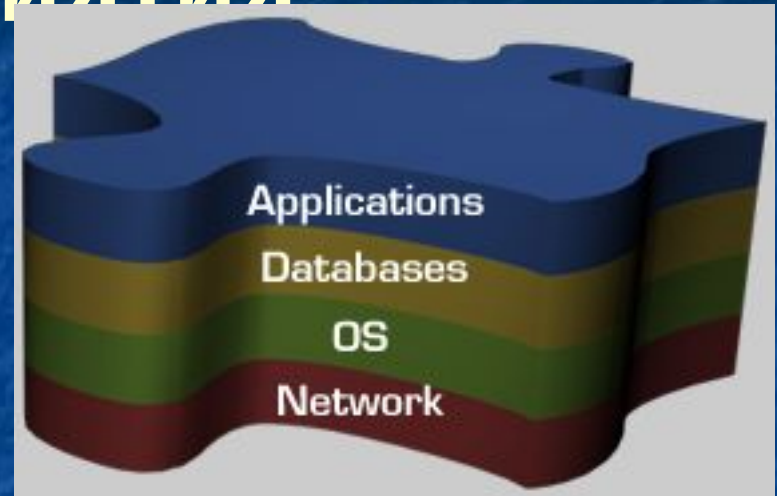
# Типовая схема сегмента корпоративной сети



# 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

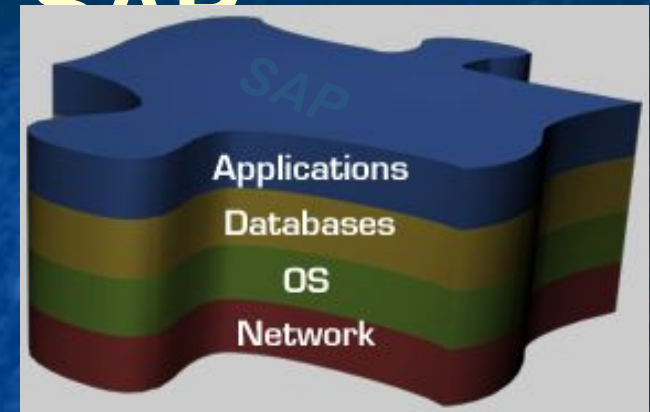
*Внешние и внутренние злоумышленники*

*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



## Безопасность сети

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

# Интервал безопасности

Желательный  
уровень  
защиты



Реальный  
уровень  
защиты



*Если ничего не делать...*



**“Интервал”  
увеличивается**

Время

# Интервал безопасности





# Традиционные средства защиты

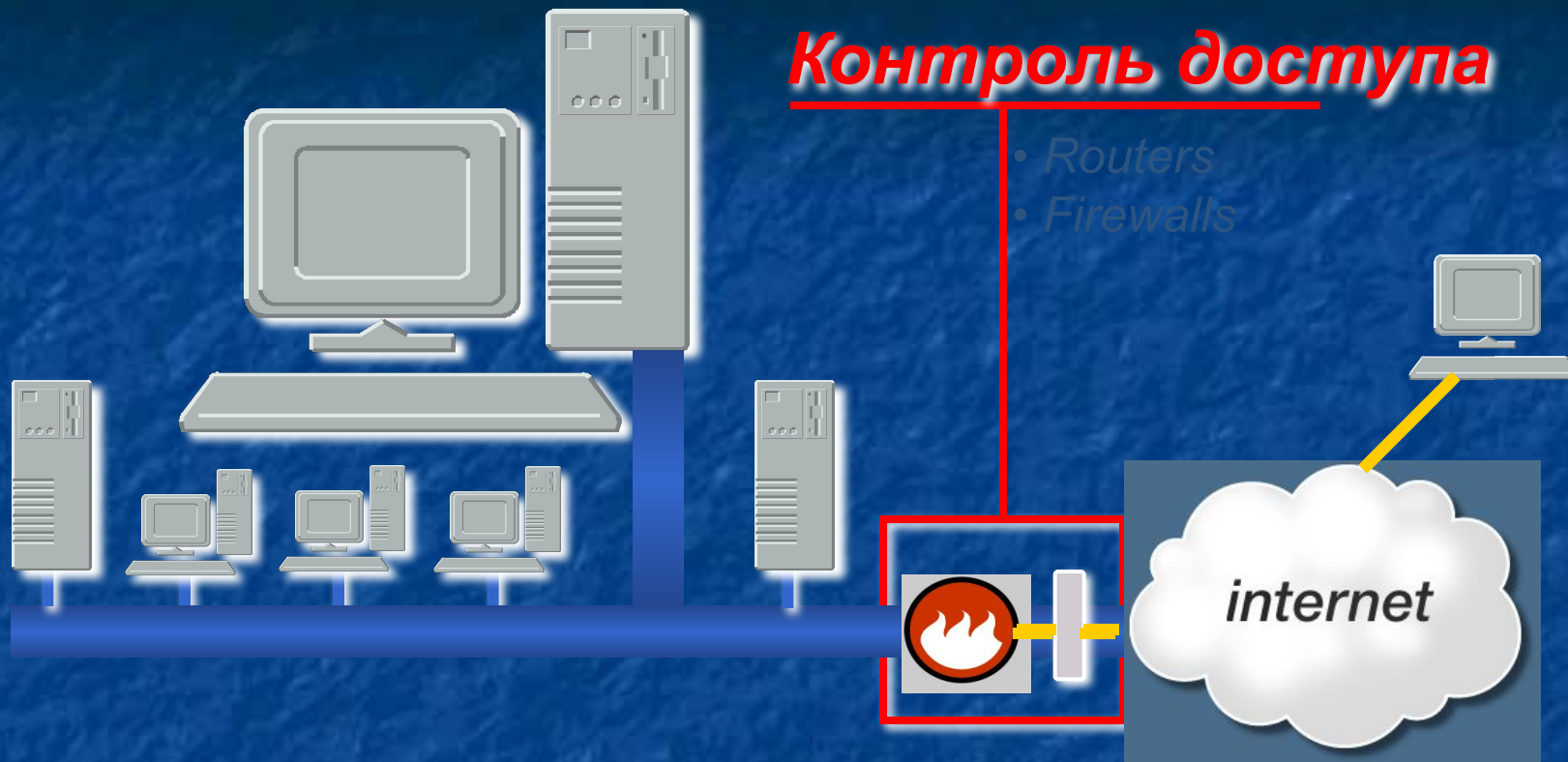


# Компоненты системы безопасности

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

**ИНФРАСТРУКТУРА БЕЗОПАСНОСТИ**

# Инфраструктура безопасности

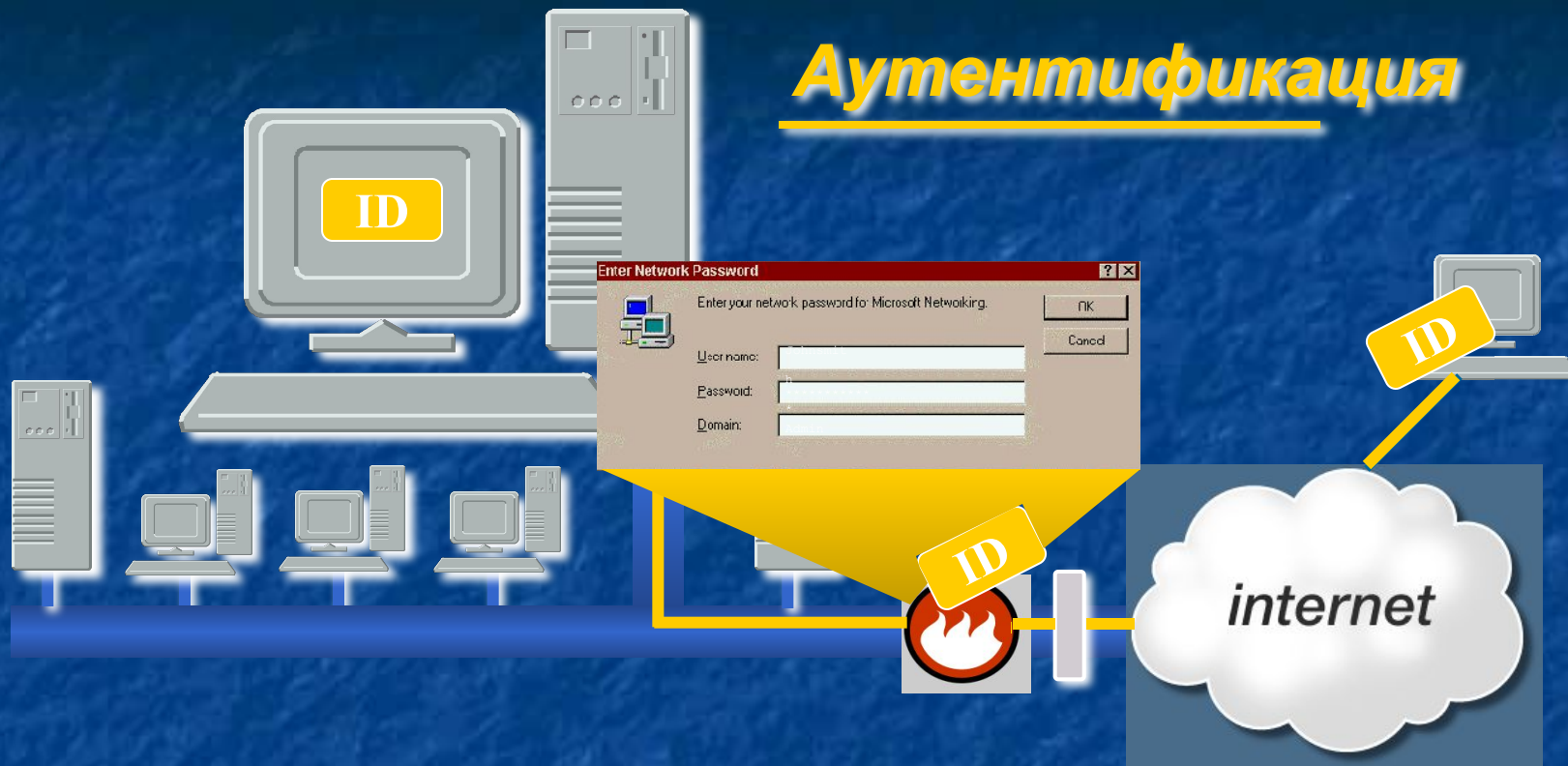


- **Access Control**
- Encryption
- Authentication
- Virus/Content Security

**ИНФРАСТРУКТУРА БЕЗОПАСНОСТИ**

# Инфраструктура безопасности

## Аутентификация



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

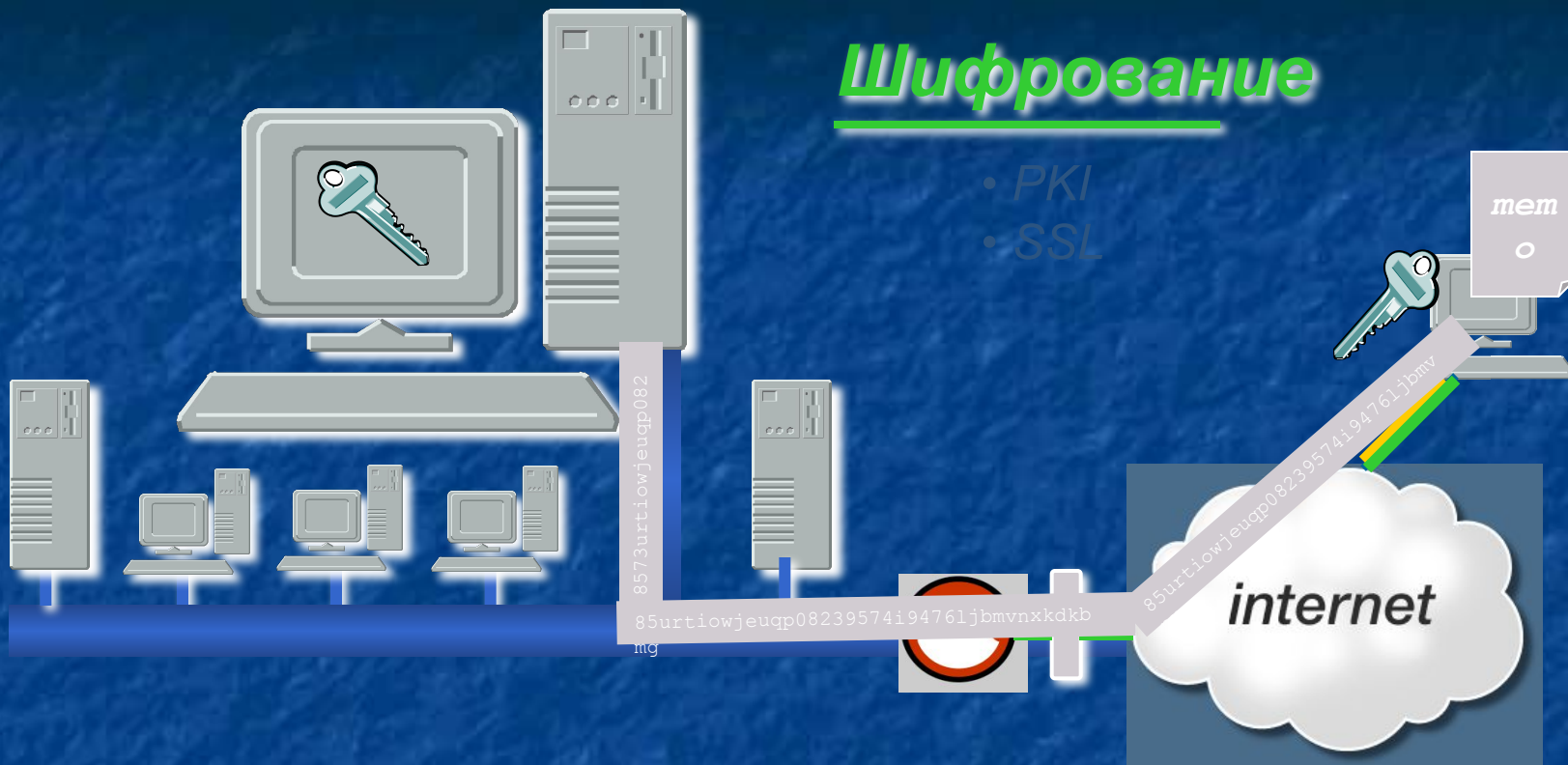
**ИНФРАСТРУКТУРА БЕЗОПАСНОСТИ**



# Инфраструктура безопасности

## Шифрование

- PKI
- SSL



- 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

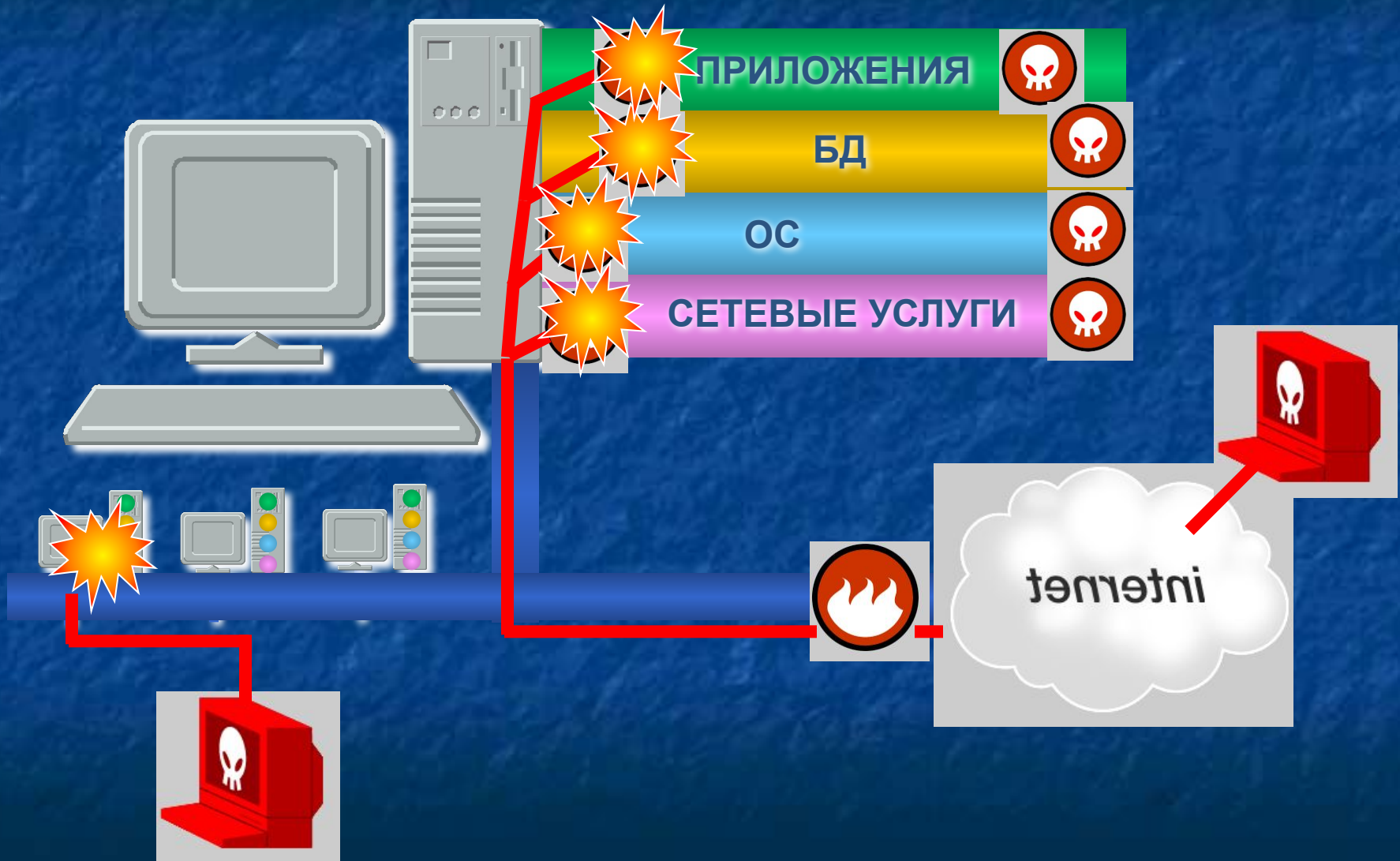
*Атака - любое действие нарушителя, которое приводит к реализации угрозы путем использования уязвимостей информационной системы.*



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



# Информационная инфраструктура



# Анатомия атаки



# BigWidget



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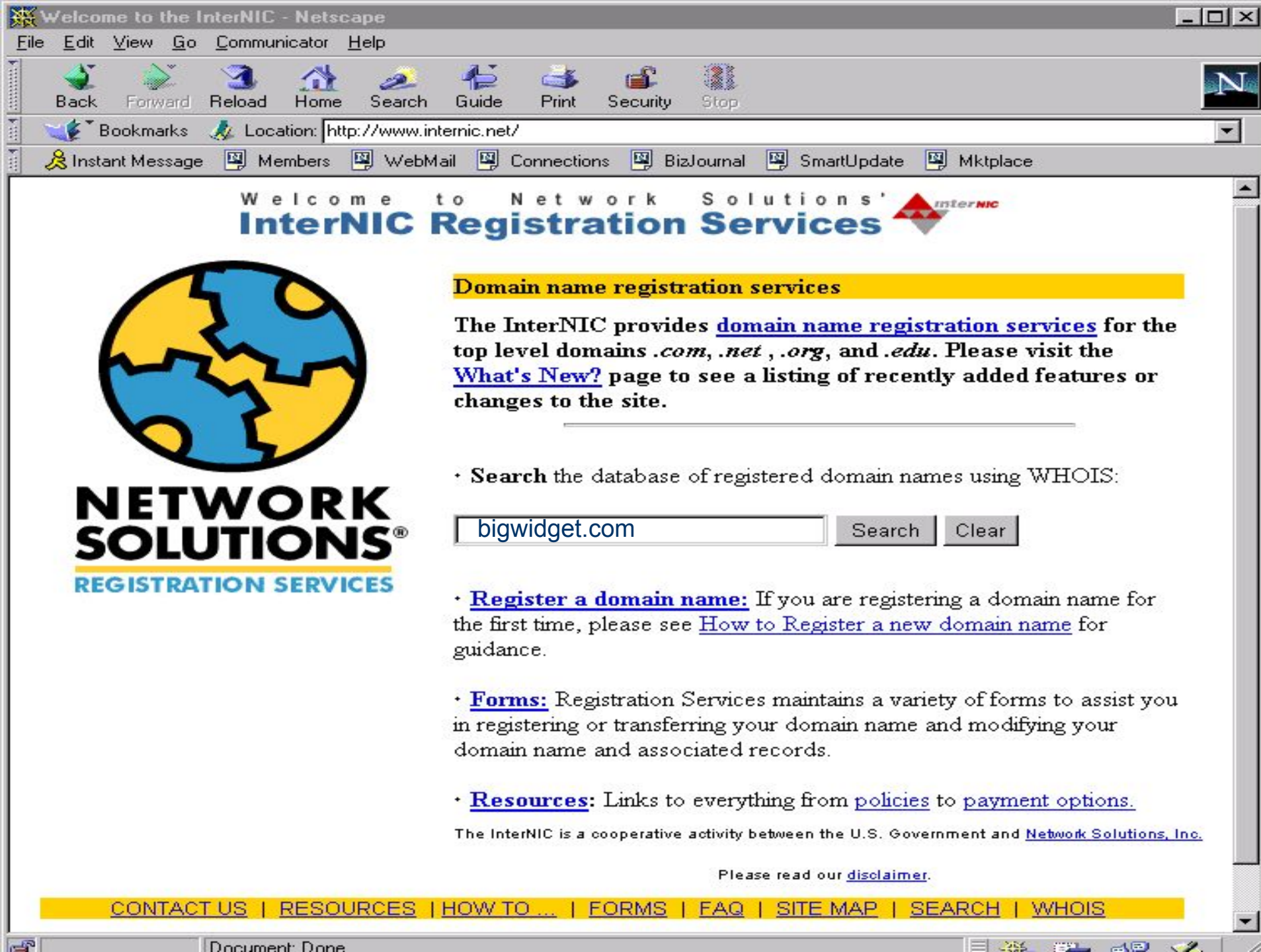
## [BigWidget Announces Titanium Machining Capabilities](#)

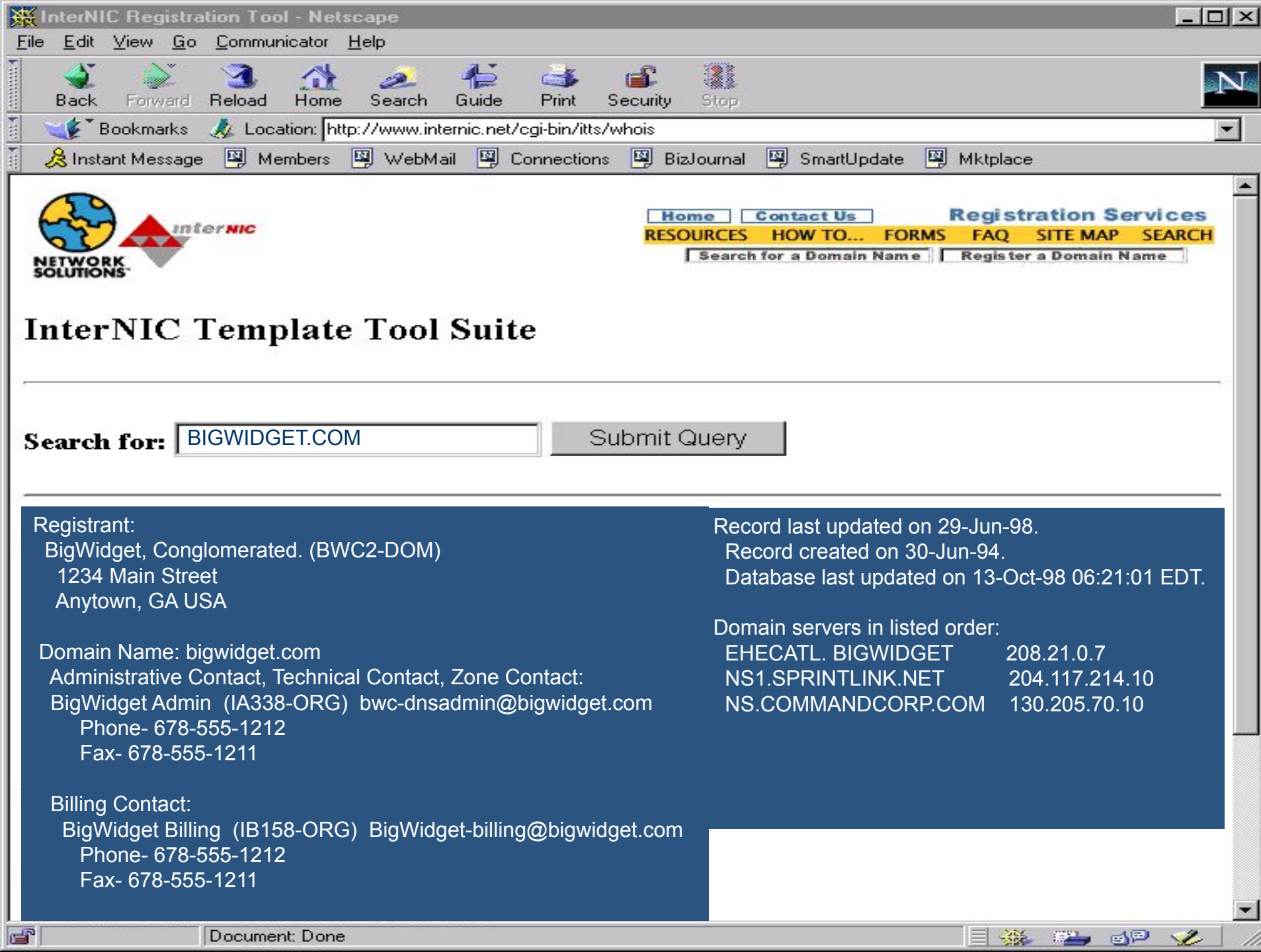
BigWidget Incorporated announced today the purchase of a Consolidated Conglomerate abrasive waterjet cutter. This new machine will allow BigWidget to offer advanced machining services for titanium cogs and widgets.

[More News...](#)

- [BigWidget acquires Spacely Sprockets for \\$17.3 million](#)
- [BigWidget announces record third quarter earnings](#)







## InterNIC Template Tool Suite

Search for:

BIGWIDGET.COM

Submit Query

### Registrant:

BigWidget, Conglomerated. (BWC2-DOM)  
1234 Main Street  
Anytown, GA USA

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 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

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

### Billing Contact:

BigWidget Billing (IB158-ORG) BigWidget-billing@bigwidget.com

Phone- 678-555-1212

Fax- 678-555-1211







# rootshell

no shirt,



exploits

news

search

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imap

Do you have security related news? Please e-mail it to [news@rootshell.com](mailto:news@rootshell.com).

## OpenSite Web Auctions truly 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



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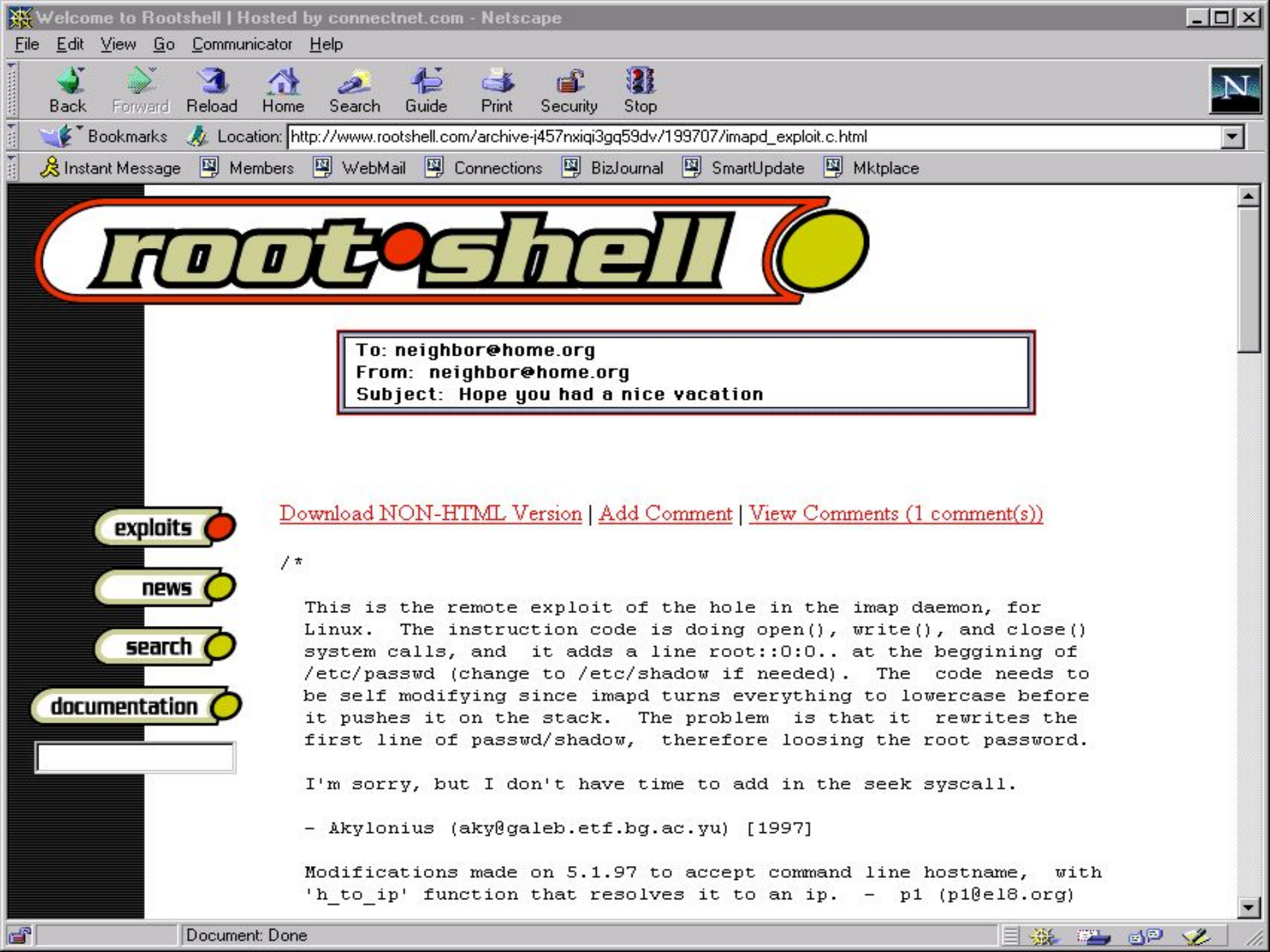
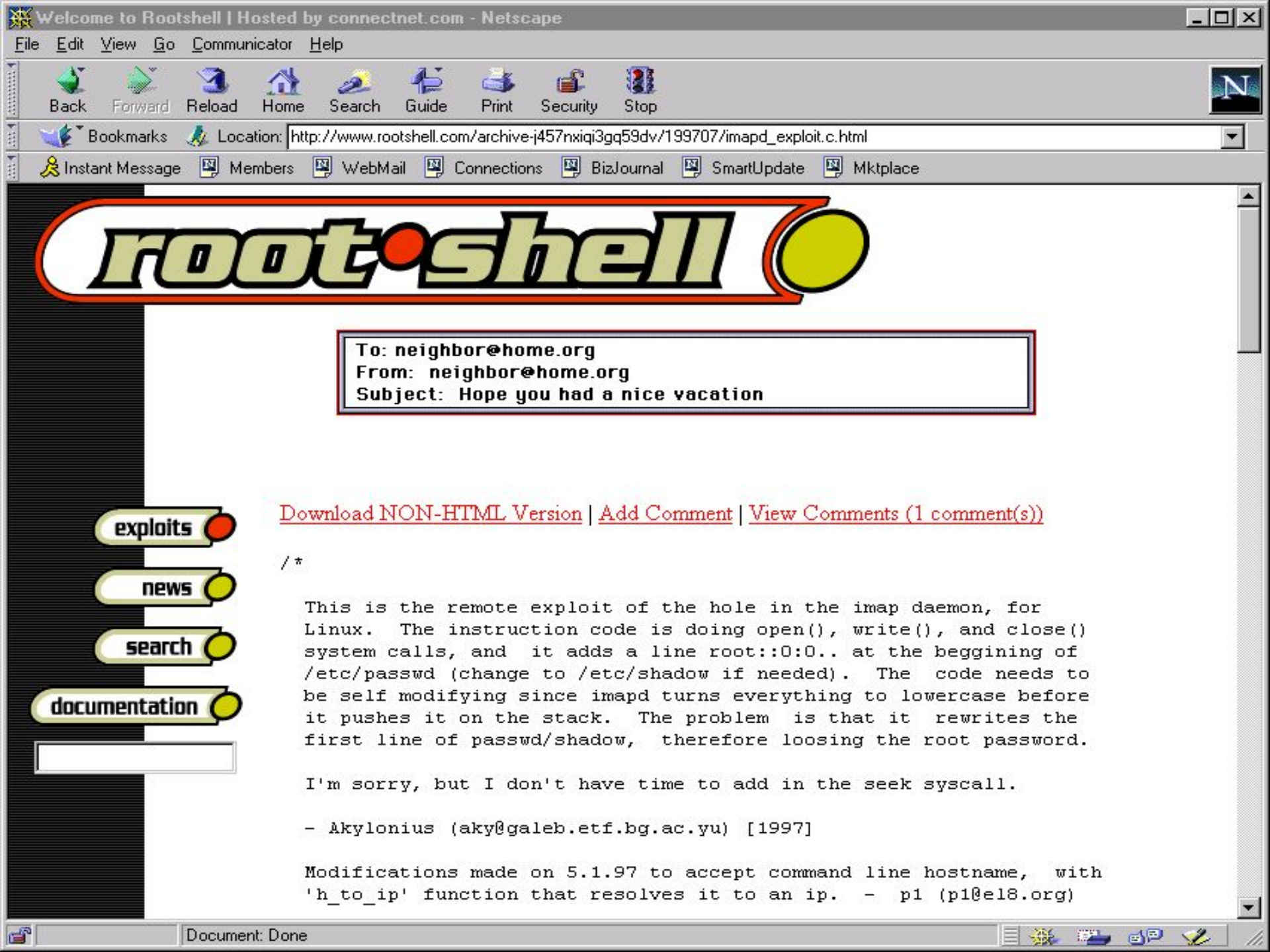
imap

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

## Rootshell search results

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





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

- exploits
- news
- search
- documentation

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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)









<http://www.theargon.com>  
Encryption, Security, Remailers, **CLICK HERE** PGP, Privacy on the Net, And Much More!

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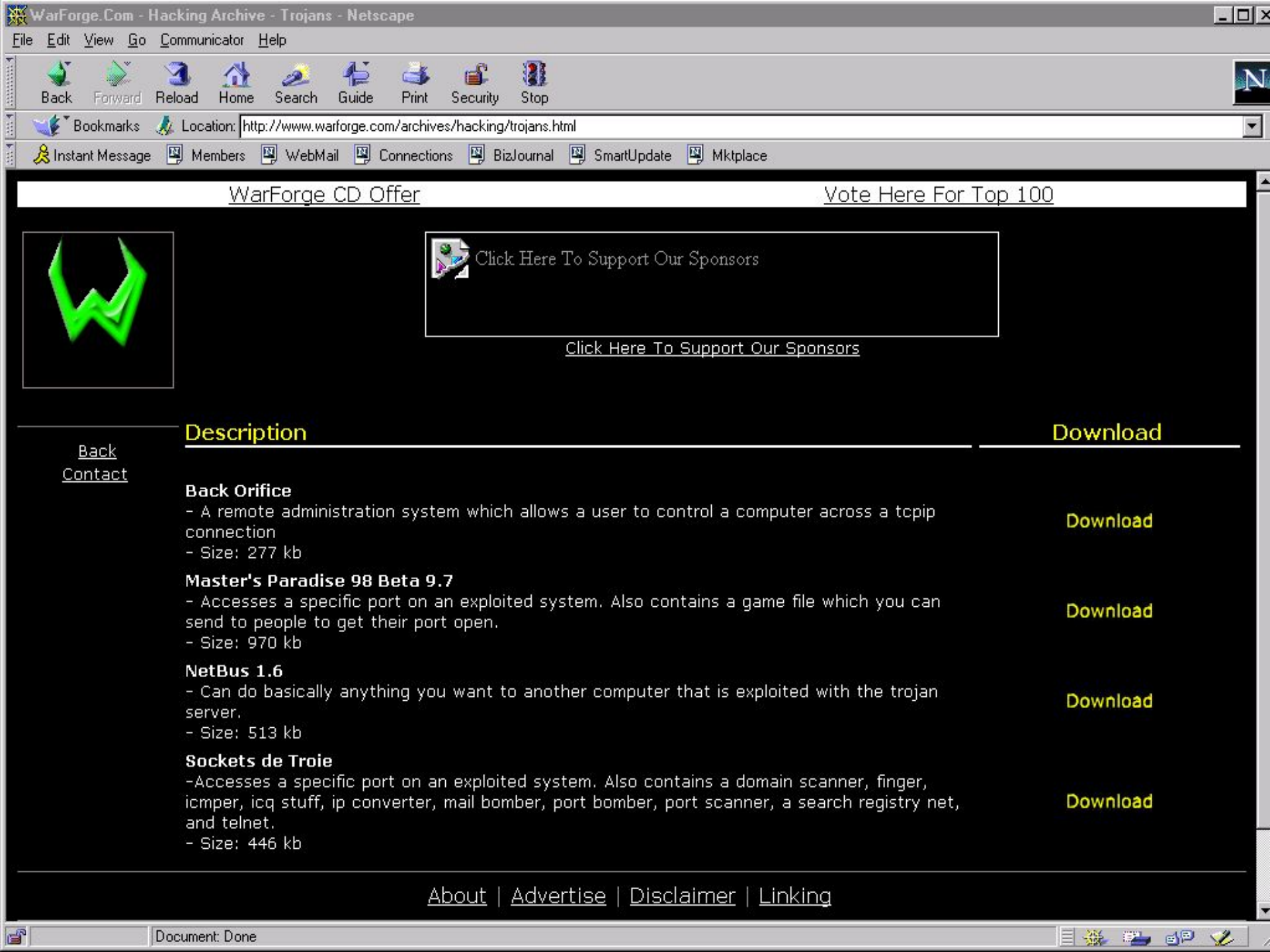
New mirror opens - 8/20/98  
I'm pleased to announce that a new mirror site has opened. If you are having trouble downloading files here, I suggest that you try the mirror site or buy [The WarForge CD](#). The mirror is: <http://www.paran0id.com/warforge/>

[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](#) - 7/28/98



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[Contact](#)

## Description

## Download

### Back Orifice

- A remote administration system which allows a user to control a computer across a tcpip connection
- Size: 277 kb

[Download](#)

### Master's Paradise 98 Beta 9.7

- Accesses a specific port on an exploited system. Also contains a game file which you can send to people to get their port open.
- Size: 970 kb

[Download](#)

### NetBus 1.6

- Can do basically anything you want to another computer that is exploited with the trojan server.
- Size: 513 kb

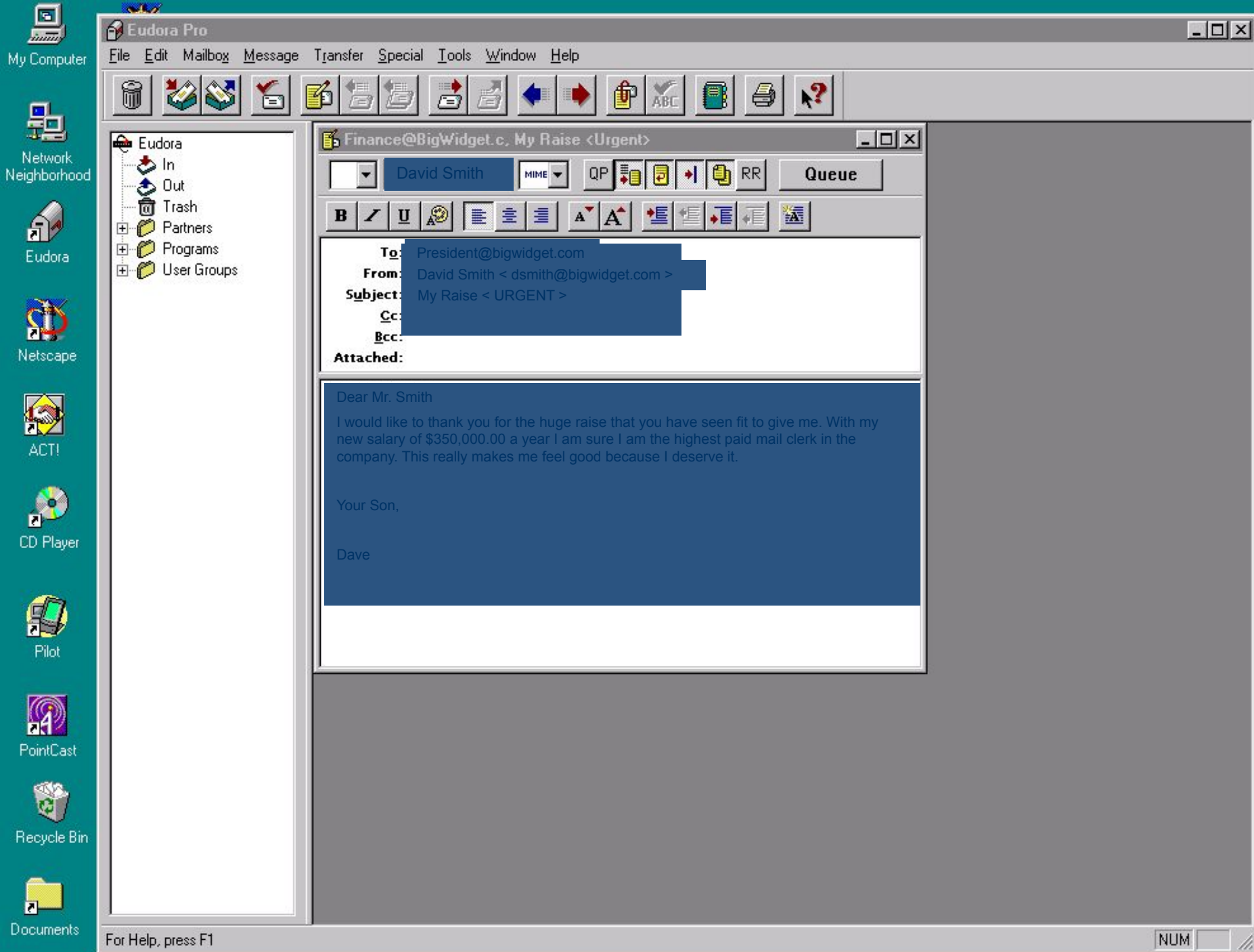
[Download](#)

### Sockets de Troie

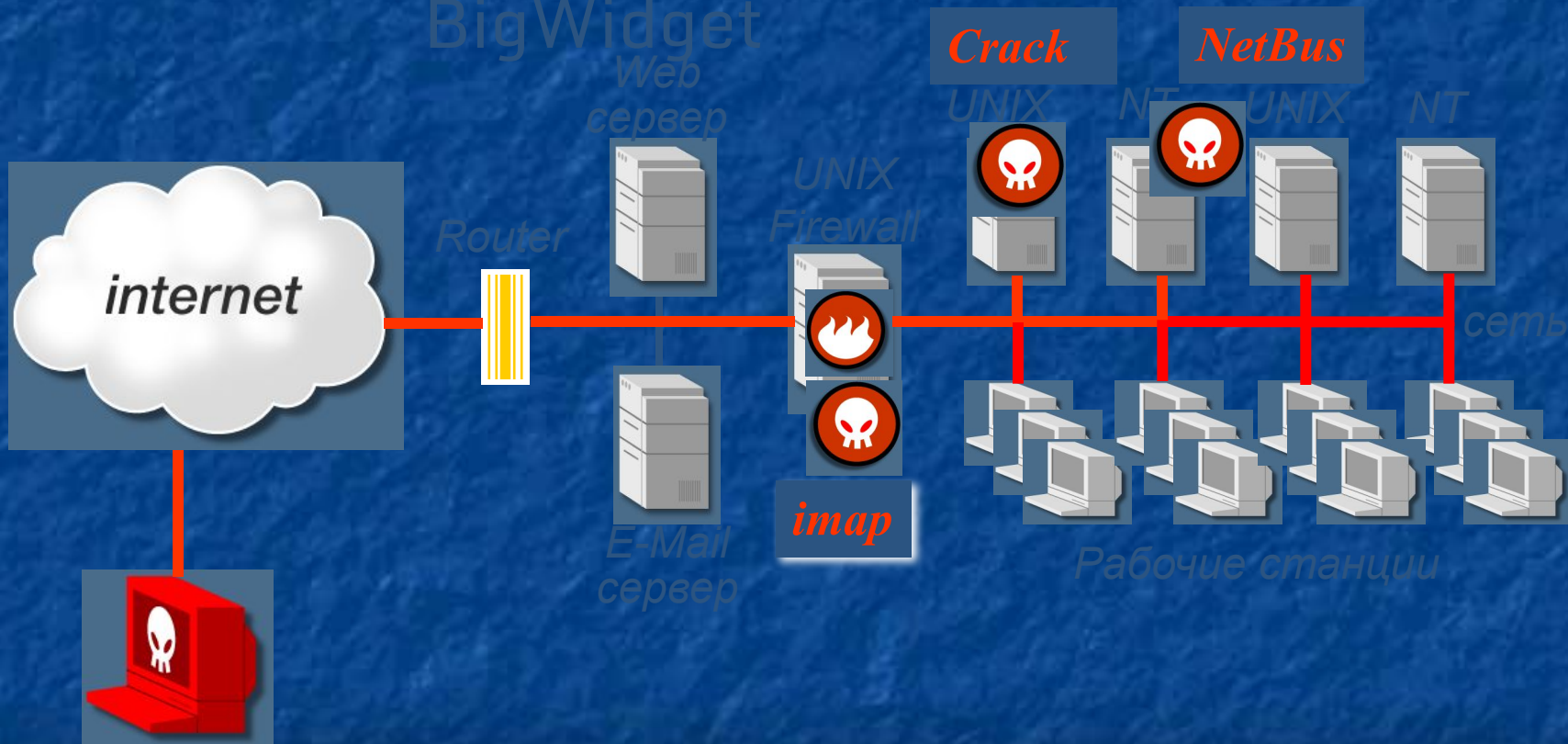
- Accesses a specific port on an exploited system. Also contains a domain scanner, finger, icmper, icq stuff, ip converter, mail bomber, port bomber, port scanner, a search registry net, and telnet.
- Size: 446 kb

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# Сеть BigWidget







# BigWidget



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## [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 acquires Spacely Sprockets for \\$17.3 million](#)
- [BigWidget announces record third quarter earnings](#)



My Computer ACDsee

Network Neighborhood 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]

Time Elapsed: 00:00:00.000

Network Statistics

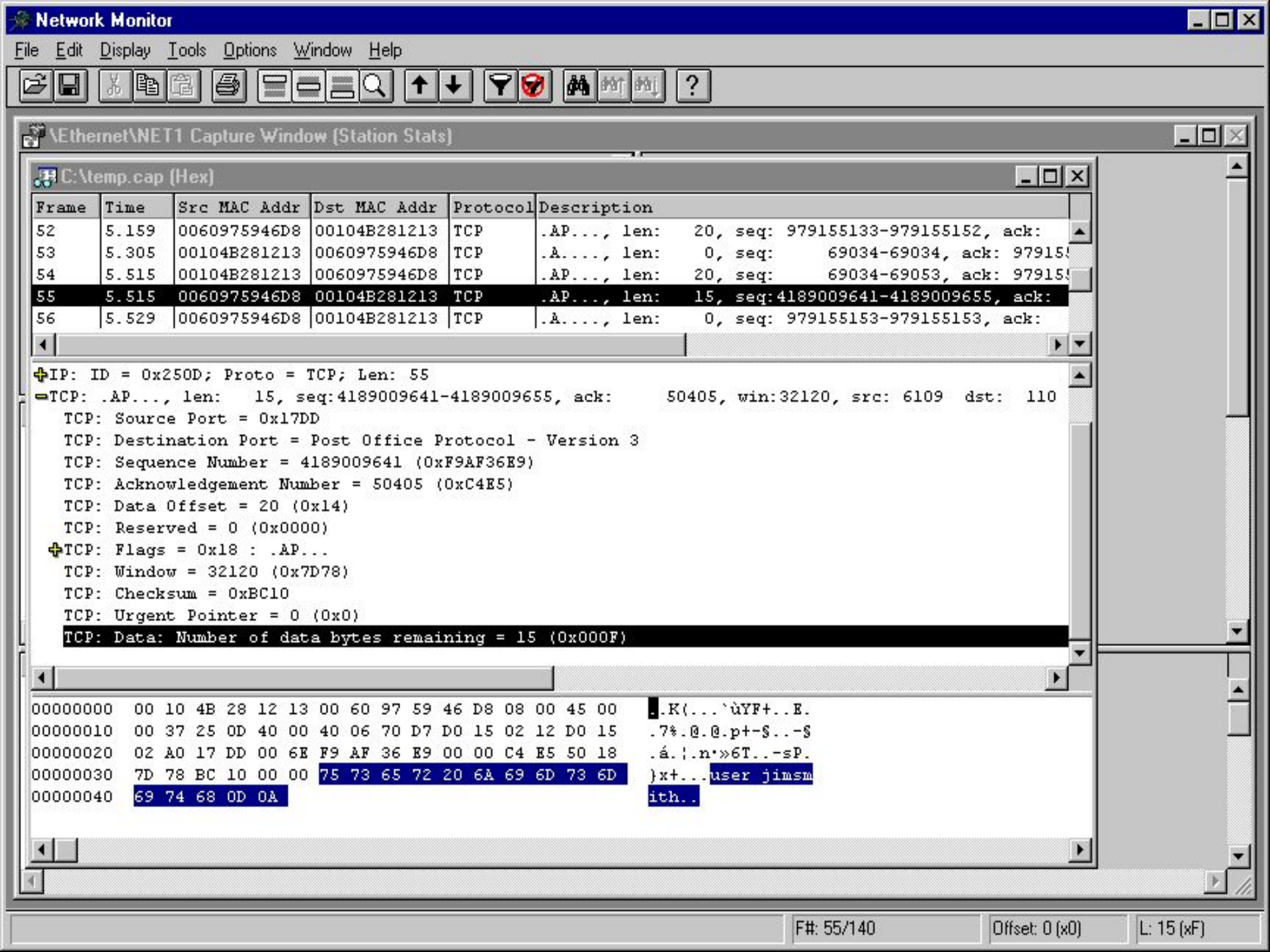
- # Frames: 0
- # Broadcasts: 0
- # Multicasts: 0
- # Bytes: 0
- # Frames Dropped: 0
- Network Status:

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 Sent

Network Monitor V4.00.350



\Ethernet\NET1 Capture Window [Station Stats]

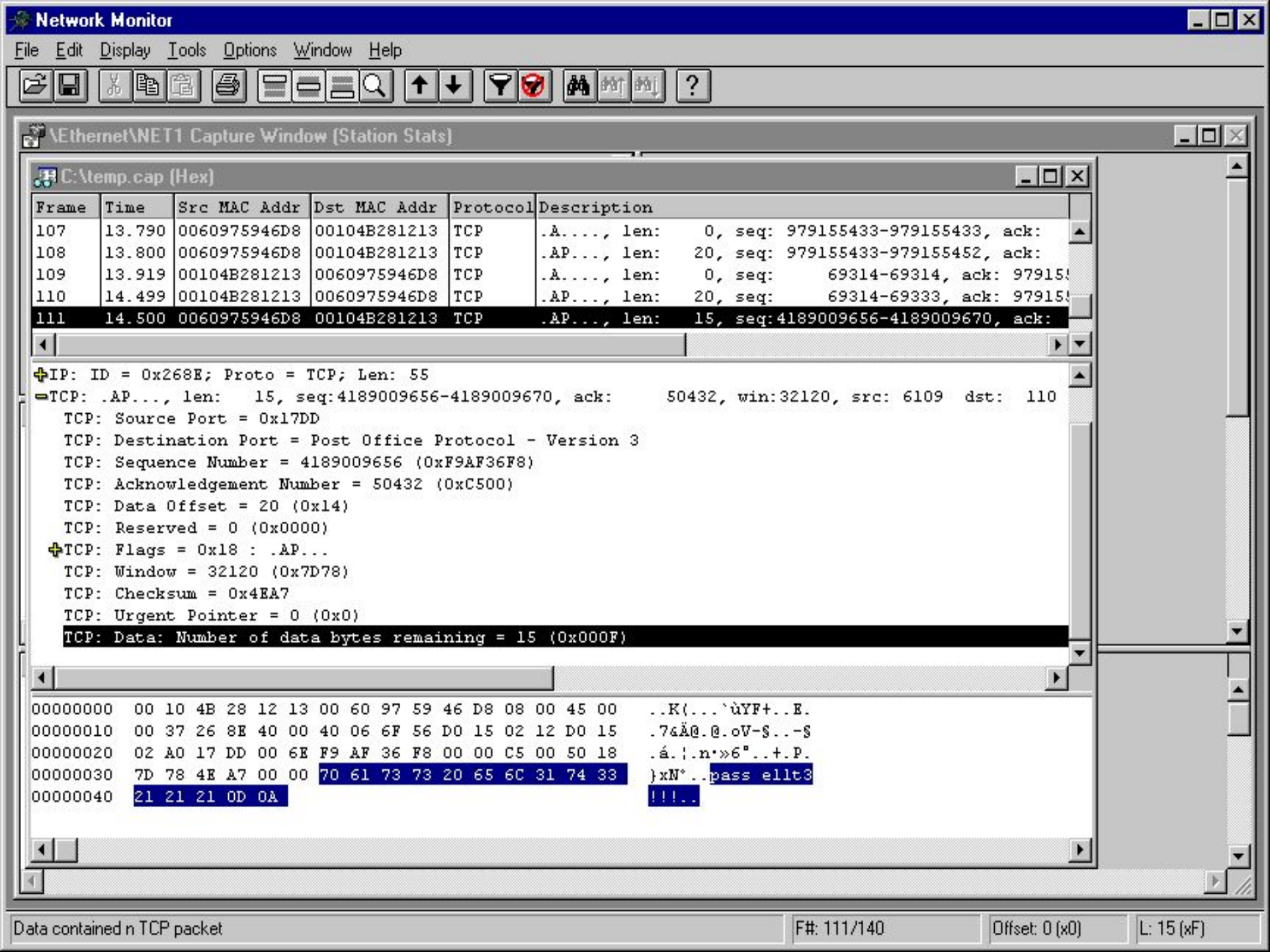
C:\temp.cap (Hex)

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	.K(...`uYF+..E.
00000010	00 37 25 0D 40 00 40 06 70 D7 D0 15 02 12 D0 15	.7%.@.@.p+-\$.-\$.
00000020	02 A0 17 DD 00 6E F9 AF 36 E9 00 00 C4 E5 50 18	.á.!.n.»6T...sP.
00000030	7D 78 BC 10 00 00 75 73 65 72 20 6A 69 6D 73 6D	}x+...user jims
00000040	69 74 68 0D 0A	ith..







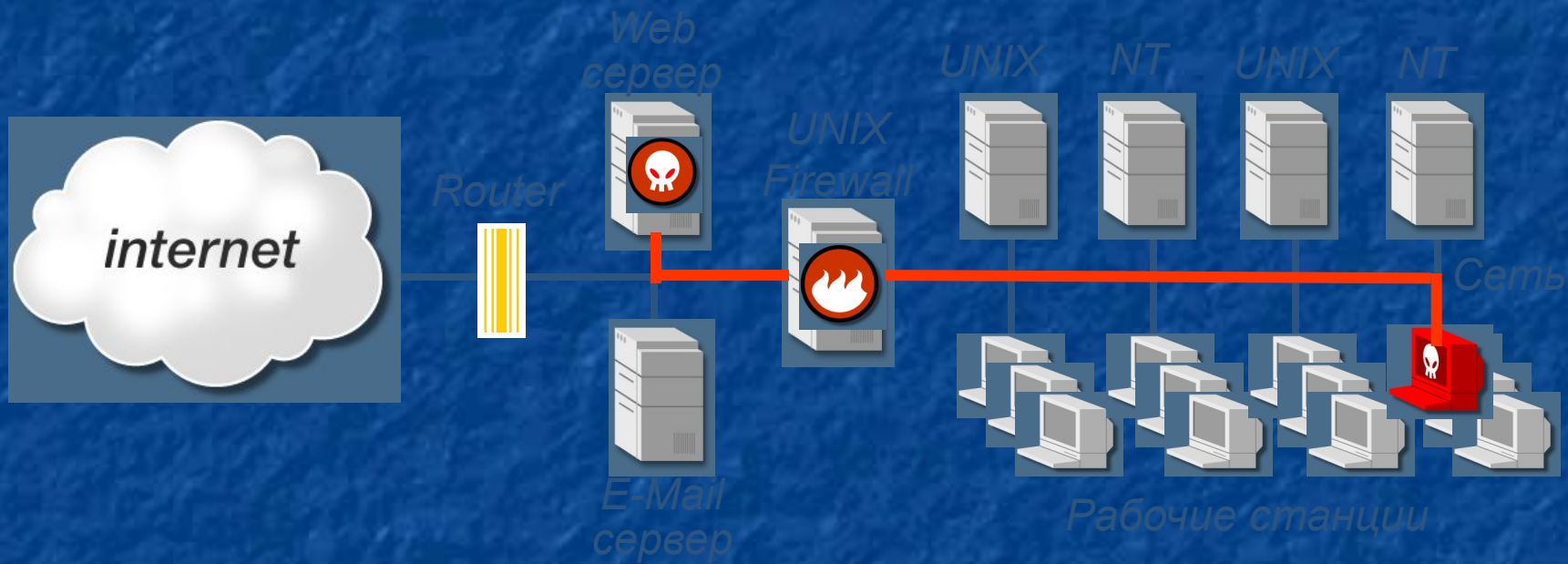


# Yo! Welcome to Da Big Wedgie!

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!!







# Вопросы