The purpose of this document is to have a basic step-by-step instructions to install Network Associates Gauntlet Firewall on NT 4.

Minimum System Requirements:	Used System Specs for this implementation
Windows NT 4 with Service Pack 4 or 5	Windows NT 4 AS with SP 6a
233 MHz	1 GHz
128 MB RAM	128 MB RAM
512 MB of free disk space	1 GB of free disk space
2 NICs	2x Intel EtherExpress Pro/100 PCI LAN Adapter
DNS Server if you plan to run DNS	1x DNS server on untrusted network
SMTP mail server on trusted network *(if you plan to send mail through the Firewall)*	
POP3 mail server on trusted network *(if you plan to use POP3 to retrieve mail from trusted network)*	1x POP3 mail server on untrusted network
	No IIS has been installed
	Static IP Address
	No IPX/SPX enabled
	Server installed as stand-alone Server

Some more details about my test network, based on this installation and configuration

External Services:

DNS Server:	**210.210.210.100**
POP3 Server:	**210.210.210.100**
Web Server:	**210.210.210.100**
FTP Server:	**210.210.210.100**

Inside (trusted) Network Interface:		Outside (untrusted) Network Interface:	
IP Address:	**135.100.100.253**	IP Address:	**210.210.210.253**
Host Name:	**Gauntlet**	Host Name:	**Gauntlet**
Interface Name:	**Gauntlet_Trust**	Interface Name:	**Gauntlet_UnTrust**
Netmask:	**255.255.255.0**	Netmask:	**255.255.255.0**
Broadcast Address:	**135.100.100.255**	Broadcast Address:	**210.210.210.255**
Default Gateway:	**135.100.100.254**	Default Gateway:	**210.210.210.254**

Before installing Gauntlet Firewall, please ensure proper communication, like DNS Lookups, Routes and Subnet Addressing has been verified. Eventually, you have to change routes and router configuration as well. If you have several trusted networks inside your security perimeter, you may need to add static routes on the firewall for them.

My test network layout can be found here: www.bemsel.com/techtip/RBE_VPN_1_3.pdf

1. Disconnect your firewall from the network by physically disconnecting the cables from both network adapters.

2. Log on to the firewall (not the domain) as administrator

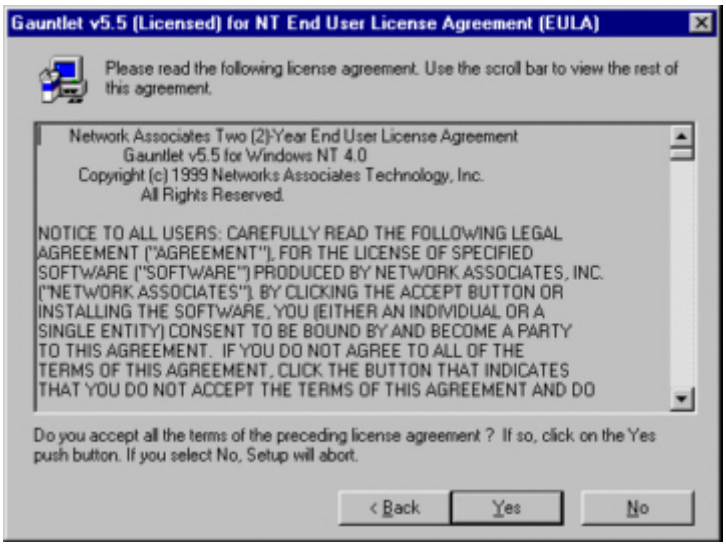
3. Execute setup.exe

4. The Welcome Windows appears

Click on **NEXT**

5. End User License Agreement

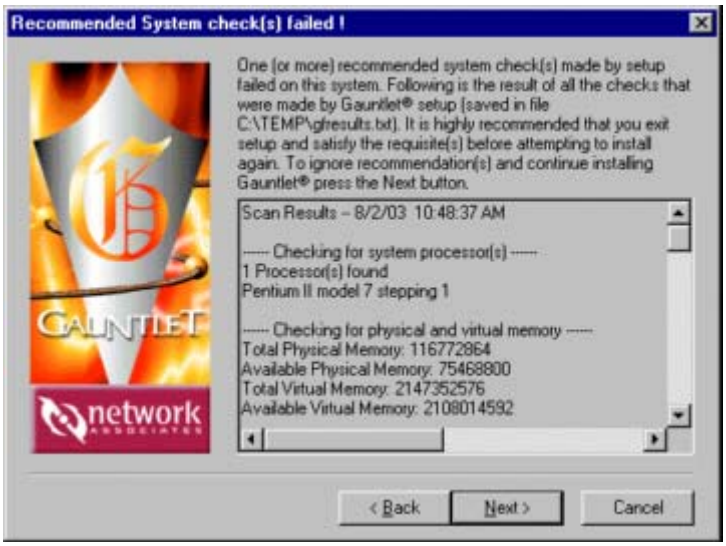
You will be presented with the Gauntlet End User License Agreement.



In order to continue the installation, you have to accept all the terms, by clicking on **YES**

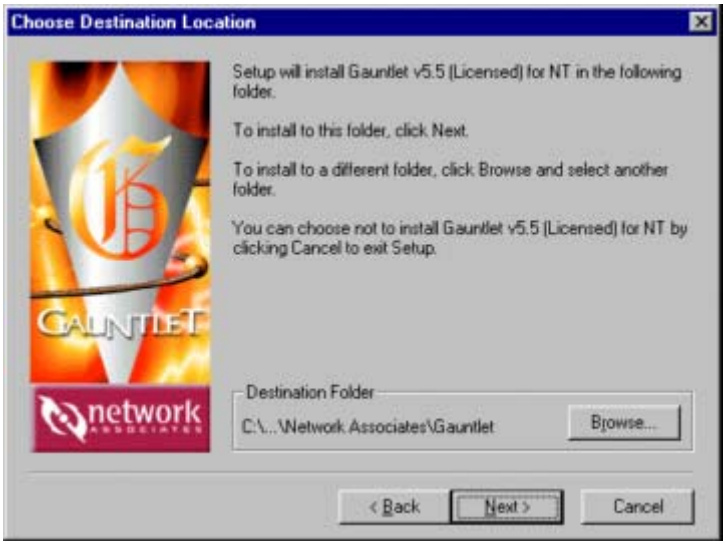
6. The Setup Program examines you Windows NT configuration,

and is looking for conflicts and settings not set optimally for use with Gauntlet. The installation will display a message and stop if a Mandatory item does not pass. The problem must be fixed before Gauntlet can be installed.



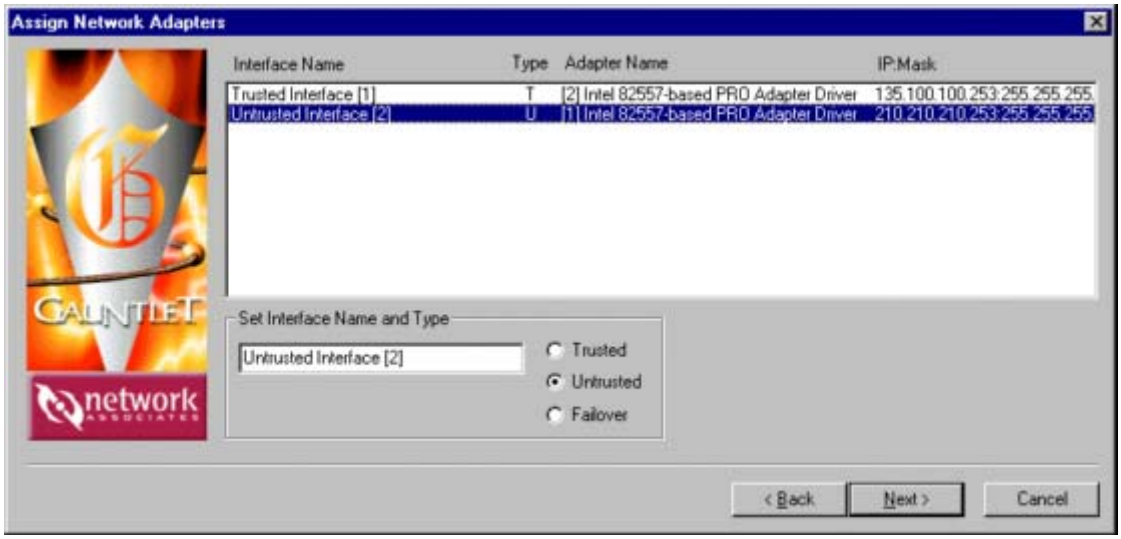
7. Choose Destination Location

I recommend to use default Destination Folder, in order not to conflict with eventual bugs.

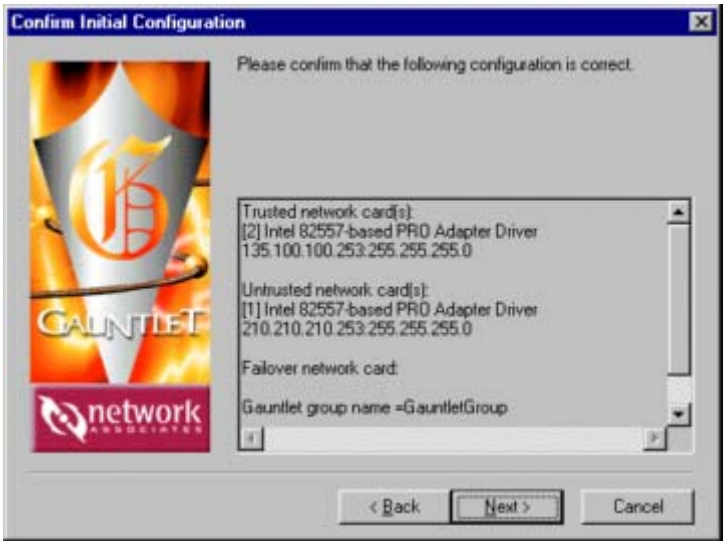


8. Assign Network Adapters

In this window, you will assign both network cards to their proper location, meaning setting NICs to trusted and untrusted networks.



9. Confirm Initial Configuration



You will be asked to confirm the initial configuration. In my case, I have following settings:

Trusted Network Card:
[2] Intel 82557-based PRO Adapter Driver – 135.100.100.253:255.255.255.0

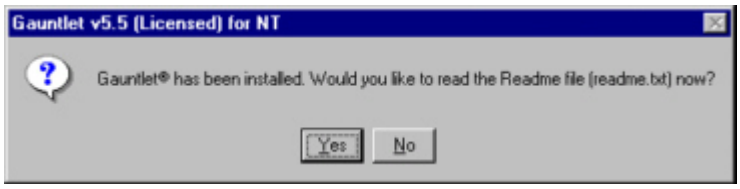
Untrusted Network Card:
[1] Intel 82557-based PRO Adapter Driver – 210.210.210.253:255.255.255.0

Failover network card
(none)

Gauntlet group name =GauntletGroup
Proxy account name =GauntletProxy
Setup will disable “Spooler” and “LicenseServer” services

The setup starts by copying files. In addition to installing the software, several Windows NT settings are modified to make them more secure.

10. Setup Completed



11. Reboot the System

Gauntlet requires a reboot. Please remove all disks from your disk drive, so Gauntlet setup can restart the computer in order to complete the installation

12. Verify the proper start of Gauntlet Firewall

Do do so, open **Programs** – **Gauntlet** – **Log Monitor**. You should see proper startings.

LOG.TXT

You also should see on Services, following Gauntlet Services started:

```
GauntletAuthService     Started                 Manual
GauntletFailover        Started                 Manual
GauntletFTPProxy        Started                 Manual
GauntletH323Proxy                               Manual
GauntletHTTPProxy       Started                 Manual
GauntletIKE                                     Manual
GauntletLogService      Started                 Manual
GauntletMasterService   Started                 Manual
GauntletMSSQLProxy                              Manual
GanutletNetShowProxy                            Manual
GauntletPlugProxy       Started                 Manual
GauntletPOP3Proxy                               Manual
GauntletRAPProxy                                Manual
GauntletReportService                           Manual
```

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GanutletSMBProxy                                Manual
GauntletSMTPProxy                               Manual
GauntletSNMPProxy                               Manual
GauntletSQLProxy                                Manual
GauntletStramwrksProxy                          Manual
GauntletSybaseProxy                             Manual
GauntletTELNETProxy          Started            Manual
GauntletVDOLiveProxy                            Manual
```

13. Installing Gauntlet Service Packs

At time of this writing, there exist 2 Service Packs for Gauntlet Firewall 5.5

14. Install Service Pack 1

a) Extract the files from the zip files into a directory, i.e., c:/temp/SP1
b) Open up a command prompt window and run INSTALL.BAT in the directory to which the files were extracted. This will rename all of the replaced files and copy the updated fiels to the appropriate directories
c) Reboot the computer

15. Install Service Pack 2

a) Extract the files from the zip files into a directory, i.e., c:/temp/SP2
b) Open up a command prompt window and run INSTALL.BAT in the directory to which the files were extracted. This will move all files, being replaced to a backup directory and copy the updated files to the appropriate directories.
c) Reboot the computer

After the final reboot – you should be able to use Network Associates Gauntlet Firewall.