

INSTALLAZIONE ACTIVE DIRECTORY E DNS (BASE)

PREREQUISITI

- Installazione Windows 2003 Standard Edition
- Installazione Service Pack 1
- Configurare indirizzo IP Scheda di rete assegnando come DNS Primario l'indirizzo IP della macchina in questione
- Inserire il CD ROM di Windows 2003 all'interno del lettore (per l'installazione del DNS)

INSTALLAZIONE E CONFIGURAZIONE BASE DEL DNS

Andare in System Properties e in corrispondenza della scheda Computer Name cliccare su Change

System Properties		<u>? ×</u>
Advanced General	Automatic Updates	Remote Hardware
Windows use on the netwo	es the following information to identil rk.	y your computer
Computer description:		
	For example: "IIS Production Se "Accounting Server".	rver" or
Full computer name:	TO1NETS001.	
Workgroup:	WORKGROUP	

Fig.1

	Computer Name Changes	? ×
	You can change the name and the membership of this computer. Changes may affect access to network resour	ces.
	Computer name:	_
	ITUTNETSOUT	
	Full computer name: TO1NETS001.	
	<u>M</u> ore	a
	Member of	
	O <u>D</u> omain:	
	Workgroup:	
	WORKGROUP	
	OK Can	cel
Cliccare su More	Fig.2	
DN	5 Suffix and NetBIOS Computer Name	<u>? ×</u>
E	timery DNS suffix of this computer:	
	ab1.prv	
	Change primary DNS suffix when domain membership change	8
N	etBIOS computer name:	
ון	O1NETS001	
Т	his name is used for interoperability with older computers and ser	vices.
S	ОК	Cancel
	Fig.3	

Inseriamo il nome DNS (Es. Lab1.prv) e clicchiamo su OK, quindi su OK.

Restartiamo la macchina per rendere effettive le modifiche.

WWW.CHIATTORAFFAELE.IT

🐞 Add or Ren	nove Programs			_ 🗆 ×
5	Currently installed programs:	Show up <u>d</u> ates	Sort by: Name	•
C <u>h</u> ange or Remove Programs	With With the second	<u>n.</u>		Size <u>5,77MB</u> Used <u>rarely</u>
5	To change this program or remov Remove.	e it from your computer, clicl	Change or Change	Remove
Add <u>N</u> ew Programs	🔀 Windows Server 2003 Service Pa	ick 1		
<u>W</u> indows Components				

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Fig.4

In Control Panel selezioniamo Add or Remove Programs quindi Add/Remove Windows Components.

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indows Components You can add or remove components of Windows.	Ē
To add or remove a component, click the checkbo part of the component will be installed. To see wh Details.	 A shaded box means that only at's included in a component, click
<u>C</u> omponents:	
🔲 📻 Accessories and Utilities	4,9 MB 🔼
🗆 📑 Application Server	33,4 MB 💻
🔲 📴 Certificate Services	1,4 MB
🗆 🛄 E-mail Services	1,1 MB
Eax Services	7.9 MB 💌
Description: Includes Windows Accessories and I	Jtilities for your computer.
Total disk space required: 4,4 MB Space available on disk: 6218,6 MB	<u>D</u> etails

Selezioniamo Domain Name System (DNS) e clicchiamo su OK quindi Next !!!ATTENZIONE!!! Assicuriamoci che il CD di Windows 2003 Standard Edition sia inserito nel lettore CD ROM

Attendiamo qualche minuto per il completamento dell'installazione.





Clicchiamo su Finish

Adesso è possibile rimuovere il CD ROM.

🚊 dnsmgmt - [DNS\T01NET5001]		<u>_ ×</u>
🚊 Eile Action Yiew Window He	lp	- 8 ×
⇔ → 🗈 🖬 🗙 😭 😫		
L DNS	TO1NET5001	
	Configure a DNS Server The Domain Name System (DNS) is a hierarchical naming system used for locating computers and network services. DNS is best known for translating friendly DNS domain names to IP addresses and network services. This DNS server has not been configured. Configuration includes creating forward and reverse lookup zones and specifying root hints and forwarders. To configure the DNS server, on the Action menu, click Configure a DNS server.	

Fig.7

All'interno di Administrative Tools selezioniamo DNS.

Adesso all'interno di Forward LookUp Zone inseriamo una nuova zona.

Clicchiamo di destro quindi selezioniamo New Zone...



Fig.9

Selezioniamo Primary Zone e clicchiamo su Next

Zone Wizard			×
Zone Name What is the name of the r	new zone?		
The zone name specifies t authoritative. It might be or a portion of the domair not the name of the DNS	the portion of the DNS your organization's do n name (for example, n server.	namespace for which this s main name (for example, n ewzone.microsoft.com). Th	erver is hicrosoft.com) he zone name is
Zope name: lab1.prv			
For more information abo	ut zone names, slick U		
For more information abo	ut zone names, click ni	ар.	
	< <u>B</u> ack <u>N</u> e	xt > Cancel	Help

Inseriamo il nome da dare alla zone in questione (Es. Lab1.prv) quindi clicchiamo su Next

Ne	ew Zone Wizard	×
	Zone File You can create a new zone file or use a file copied from another DNS server.	
	Do you want to create a new zone file or use an existing file that you have copied from another DNS server?	
	Create a new file with this file name: lab1.prv.dns	
	O Use this existing file:	
Ś	To use this existing file, ensure that it has been copied to the folder %SystemRoot%\system32\dns on this server, and then click Next.	
	< <u>B</u> ack <u>N</u> ext > Cancel He	elp

Fig.11

Lasciamo tutto invariato e clicchiamo su Next

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 Dynamic updates enable DNS client computers to register and dynamically update their resource records with a DNS server whenever changes occur. Select the type of dynamic updates you want to allow: Allow only gecure dynamic updates (recommended for Active Directory) This option is available only for Active Directory-integrated zones. Allow both nonsecure and secure dynamic updates Dynamic updates of resource records are accepted from any client. This option is a significant security vulnerability because updates can be accepted from untrusted sources. Do not allow dynamic updates Dynamic updates Dynamic updates of resource records are not accepted by this zone. You must update these records manually. 	Dynamic U You can updates	pdate specify that this DNS zone accepts secure, nonsecure, or no dynamic
 Select the type of dynamic updates you want to allow: Allow only secure dynamic updates (recommended for Active Directory) This option is available only for Active Directory-integrated zones. Allow both nonsecure and secure dynamic updates Dynamic updates of resource records are accepted from any client. This option is a significant security vulnerability because updates can be accepted from untrusted sources. Do not allow dynamic updates Dynamic updates of resource records are not accepted by this zone. You must update these records manually. 	Dynamic resource	updates enable DNS client computers to register and dynamically update their records with a DNS server whenever changes occur.
 Allow only secure dynamic updates (recommended for Active Directory) This option is available only for Active Directory-integrated zones. Allow both nonsecure and secure dynamic updates Dynamic updates of resource records are accepted from any client. This option is a significant security vulnerability because updates can be accepted from untrusted sources. Do not allow dynamic updates Dynamic updates of resource records are not accepted by this zone. You must update these records manually. 	Select th	ie type of dynamic updates you want to allow:
Do not allow dynamic updates Dynamic updates of resource records are not accepted by this zone. You must update these records manually.	C Allov This C Allov Dyna	v only secure dynamic updates (recommended for Active Directory) option is available only for Active Directory-integrated zones. v both nonsecure and secure dynamic updates amic updates of resource records are accepted from any client. This option is a significant security vulnerability because updates can be accepted from untrusted sources.
	C <u>D</u> o no Dyna these	, ot allow dynamic updates mic updates of resource records are not accepted by this zone. You must update a records manually.

Selezioniamo la prima opzione "Allow both nonsecure and secure dynamic updates" e clicchiamo su Next

New Zone Wizard			×
	Completing	the New Zone Wizard	
	You have success specified the follo	fully completed the New Zone Wizard. You wing settings:	
	Name:	lab1.prv	
	Туре:	Primary	
	Lookup type:	Forward	
	File name:	lab1.prv.dns	
	Note: You should that records are u name resolution u	now add records to the zone or ensure pdated dynamically. You can then verify sing nslookup.	
	To close this wizar	d and create the new zone, click Finish.	
	< <u>B</u> ack	Finish Cancel Help	



Leggiamo i settaggi effettuati e clicchiamo su Finish per completare la configurazione Adesso creiamo una zona in **Reverse LookUp Zone**. Clicchiamo di destro quindi selezioniamo New Zone...



	Select the type of zone you want to create:
	Primary zone Creates a copy of a zone that can be updated directly on this server.
	Secondary zone Creates a copy of a zone that exists on another server. This option helps balance the processing load of primary servers and provides fault tolerance.
	Stub zone Creates a copy of a zone containing only Name Server (NS), Start of Authority (SOA), and possibly glue Host (A) records. A server containing a stub zone is not authoritative for that zone.
1	Store the zone in <u>A</u> ctive Directory (available only if DNS server is a domain controller)
	< <u>B</u> ack <u>N</u> ext > Cancel Help



Lasciamo tutto invariato e clicchiamo su Next

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20	WWW.Lfliff110ftflf	theLt.
	New Zone Wizard	(
	Reverse Lookup Zone Name A reverse lookup zone translates IP addresses into DNS names.	
	To identify the reverse lookup zone, type the network ID or the name of the zone. Network ID: 10 .1 .1 . The network ID is the portion of the IP addresses that belongs to this zone. Enter the network ID in its normal (not reversed) order.	
	If you use a zero in the network ID, it will appear in the zone name. For example, network ID 10 would create zone 10.in-addr.arpa, and network ID 10.0 would create zone 0.10.in-addr.arpa. Reverse lookup zone name:	
	For more information on creating a reverse lookup zone, click Help.	
	< <u>B</u> ack <u>N</u> ext > Cancel Help	
Inseriamo la	Fig.16 Network ID (la sottorete della zona DNS) e clicchiamo su Next	_
	New Zone Wizard	(
	Zone File You can create a new zone file or use a file copied from another DNS server.	
	Do you want to create a new zone file or use an existing file that you have copied from another DNS server?	
	1.1.10.in-addr.arpa.dns	
	O Use this existing file:	
	To use this existing file, ensure that it has been copied to the folder %SystemRoot%\system32\dns on this server, and then click Next.	

Help

Cancel

Lasciamo tutto invariato e clicchiamo su Next

0

 $\underline{N}ext >$

< <u>B</u>ack

	New Zone Wizard			X
	Dynamic Update You can specify that this D updates.	NS zone accepts	s secure, nonsecure, or no dynamic	
	Dynamic updates enable D resource records with a DN	NS client comput VS server whene	ers to register and dynamically update their ver changes occur.	r
	Select the type of dynamic	: updates you wa	ant to allow:	
	C Allow only secure dyna This option is available	mic updates (rec only for Active D	ommended for Active Directory) irectory-integrated zones.	
	Allow both nonsecure a	and secure dynai	nic updates	
	Dynamic updates of re Dynamic updates of re	source records a ignificant securit	re accepted from any client. v vulnerability because undates can be	
	accepted from u	ntrusted sources		
	Do not allow dynamic u Dynamic updates of res these records manually	pdates source records a ',	re not accepted by this zone. You must upd	late
		< <u>B</u> ack	Next > Cancel Help	p
		Fig	.18	
ezioniamo	la prima opzione e clicchiamo s	u Next		
	New Zope Wizard			Y
		Completin	a the New Zone Wizard	<u>~</u>
		Somblea	IS THE NEW ZONE WIZAIN	
		You have succe specified the fol	ssfully completed the New Zone Wizard. You lowing settings:	u
		Name:	1.1.10.in-addr.arpa	
		Type:	Primary	

 New Zone Wizard

 Image: Completing the New Zone Wizard

 You have successfully completed the New Zone Wizard. You specified the following settings:

 Name:
 1.1.10.in-addr.arpa

 Type:
 Primary

 Lookup type:
 Reverse

 File name:
 1.1.10.in-addr.arpa.dns

 Note: You should now add records to the zone or ensure that records are updated dynamically. You can then verify name resolution using nslookup.

 To close this wizard and create the new zone, click Finish.

 < Back</td>
 Finish
 Cancel
 Help



Leggiamo i settaggi effettuati e clicchiamo su Finish per completare la configurazione.



INSTALLAZIONE E CONFIGURAZIONE BASE ACTIVE DIRECTORY

Clicchiamo su Start quindi Run e scriviamo dcpromo quindi OK



Clicchiamo su Next

Active Directory Installation Wizard Image: Control lier 1 ppc Specify the role you want this server to have. Image: Control lier 1 ppc Do you want this server to become a domain controller for a new domain or an additional domain controller for an existing domain? Image: Control lier 1 ppc Image: Control lier 1 ppc Select this option to create a new child domain, new domain tree, or new forest. This server will become the first domain controller in the new domain. Image: Control lier 1 ppc Proceeding with this option will delete all local accounts on this server. Image: Control lier 1 ppc Proceeding with this option will delete all local accounts on this server. All cryptographic keys will be deleted and should be exported before continuing. Cancel Image: Control lier 1 ppc Cancel Image: Con
Domain Controller Type Specify the role you want this server to bacome a domain controller for a new domain or an additional domain controller for a new string domain? □ <u>omain controller for a new domain</u> □ <u>omain controller for a new string domain</u> □ <u>odditional domain controller for an existing domain to continuing</u> All encrypted data, such as EFS-encrypted files or e-mail, should be decrypted before continuing or it will be permanently inaccessible. □ <u>domain controller for a New Domain e clicchiamo su Next</u> <u>Edet Next> Cancel</u> Conten to Torsellation Wizard Cancel Conten to new forese Cancel Conten in a new forese Cancel Conten in a new forese
Do you want this server to become a domain controller for a new domain or an additional domain controller for an existing domain? •
 Additional domain controller for an existing domain Proceeding with this option will delete all local accounts on this server. All cryptographic keys will be deleted and should be exported before continuing. All encrypted data, such as EFS-encrypted files or e-mail, should be decrypted before continuing or it will be permanently inaccessible. <u>Cancel</u> <u>Eack</u> <u>Next</u> <u>Cancel</u> <u>Fig.22</u> Motor Torler for a New Domain e clitichiamo su Next <u>Active Directory Installation Wizard</u> <u>Create New Domain</u> Select which type of domain to create. <u>Domain in a new forest</u> <u>Select this option if this is the first domain in your organization or if you want the new domain to be completely independent of your current forest.</u> <u>Create a new:</u> <u>Domain in a new forest</u> Select this option if this is the first domain in your organization or if you want the new domain to be a child of an existing domain, select this option. For example, you could create a new domain named headquarters.example.microsoft.com as a child domain of the domain example, nicrosoft.com as a child domain of the domain example, nicrosoft.com <u>Domain tree in an existing forest</u> I you don't want the new domain to be a child of an existing domain, select this option. For example, you could create a new domain named headquarters example.microsoft.com as a child of an existing domain, select this option. For example, you could create a new domain named
continuing. All encrypted data, such as EFS-encrypted files or e-mail, should be decrypted before continuing or it will be permanently inaccessible.
Image: Back Mext > Cancel Fig.22 mo Domain controller for a New Domain e clicchiamo su Next Active Directory Installation Wizard Create a new: © Domain in a new forest Bomain in a new forest Bold domain in an existing domain tree If you want the new domain to be a child of an existing domain, select this option. For example, microsoft.com as a child domain of the domain example. microsoft.com as a child domain of the domain example. microsoft.com as a child domain fore the domain select this option. This will cr
Fig.22 mo Domain controller for a New Domain e clicchiamo su Next Active Directory Installation Wizard Create New Domain Gelect which type of domain to create. Create a new: Create a new: Create a new: Create a new: Child domain in a new forest Select this option if this is the first domain in your organization or if you want the new domain to be completely independent of your current forest. Child domain in an existing domain tree If you want the new domain to be a child of an existing domain, select this option. For example, you could create a new domain named headquarters.example.microsoft.com as a child domain of the domain example.microsoft.com. Commission C
Create New Domain Select which type of domain to create. Create a new: <u>Domain in a new forest</u> Select this option if this is the first domain in your organization or if you want the new domain to be completely independent of your current forest. Child domain in an existing domain tree If you want the new domain to be a child of an existing domain, select this option. For example, you could create a new domain named headquarters, example. microsoft.com as a child domain of the domain example. microsoft.com. Domain tree in an existing forest If you don't want the new domain to be a child of an existing domain, select this option. This will create a new domain to be a child of an existing domain, select this option.
 Create a new: Domain in a new forest Select this option if this is the first domain in your organization or if you want the new domain to be completely independent of your current forest. Child domain in an existing domain tree If you want the new domain to be a child of an existing domain, select this option. For example, you could create a new domain named headquarters.example.microsoft.com as a child domain of the domain example.microsoft.com. Domain tree in an existing forest If you don't want the new domain to be a child of an existing domain, select this option. This will create a new domain the that is separate from any existing trees.

Fig.23

Selezioniamo la prima opzione (Default) Domain in a new Forest e clicchiamo su ${\bf Next}$

Active Directory Installation Wizard	X
New Domain Name Specify a name for the new domain.	A
Type the full DNS name for the new domain (for example: headquarters.example.microsoft.com).	
Eull DNS name for new domain:	_
< <u>B</u> ack <u>N</u> ext > Ca	ncel
Fig.24	



Inseriamo il nome DNS del dominio (lab1.prv come specificato nella creazione precedente del DNS) e clicchiamo su Next

Active Directory Installation Wizard	×
NetBIOS Domain Name Specify a NetBIOS name for the new domain.	\$
This is the name that users of earlier versions of Windows will use to identify the new domain. Click Next to accept the name shown, or type a new name.	-
< <u>B</u> ack <u>N</u> ext > Car	ncel

Fig.25

Di default verrà assegnato un nome NetBIOS del Dominio, lasciamo tutto invariato e clicchiamo su Next

	Active Directory Installation Wizard
	Database and Log Folders Specify the folders to contain the Active Directory database and log files.
	For best performance and recoverability, store the database and the log on separate hard disks.
	Where do you want to store the Active Directory database?
	Database folder:
	C:\WINDOWS\NTDS Browse
	Where do you want to store the Active Directory log?
	Log folder:
	C:\WINDOWS\NTDS
	< <u>B</u> ack <u>N</u> ext > Cancel
	Fig.26
Lasciamo tutt	o invariato e clicchiamo su Next
	Active Directory Installation Wizard
	Shared System Volume Specify the folder to be shared as the system volume.
	The SYSVOL folder stores the server's copy of the domain's public files. The contents of the SYSVOL folder are replicated to all domain controllers in the domain.
	The SYSVOL folder must be located on an NTFS volume.
	Enter a location for the SYSVOL folder.
	Folder location:
	C:\WINDOWS\SYSVOL Browse
	< <u>B</u> ack <u>N</u> ext > Cancel

Fig.27

Lasciamo tutto invariato e clicchiamo su Next

Diagnostic F	esults			
The registration	i diagnostic has been run 1 ti	ime.		
DNS registratic Next.	n support for this domain con	ntroller has been veri	fied. To continue	e, click
Details				
The primary DN	IS server tested was: to1nets	:001.lab1.prv (10.1.1	1.11)	
The zone was:	lab1.prv			
The test for dy "The operation	namic DNS update support re completed successfully."	eturned:		

Leggiamo i dettagli della configurazione, se tutto è in ordine clicchiamo su Next

P	ctive Directory Installation Wizard
	Permissions Select default permissions for user and group objects.
	Some server programs, such as Windows NT Remote Access Service, read information stored on domain controllers. © Permissions compatible with pre-Windows 2000 server operating systems Select this option if you run server programs on pre-Windows 2000 server operating systems of on 2000 or 2000 or 2002 operating systems that are
	Mononymous users can read information on this domain. Permissions compatible only with Windows 2000 or Windows Server 2003
2	Select this option if you run server programs only on Windows 2000 or Windows Server 2003 operating systems that are members of Active Directory domains. Only authenticated users can read information on this domain.
	< <u>B</u> ack <u>N</u> ext > Cancel
	Fig.29

Lasciamo tutto invariato e clicchiamo su Next

	Directory Services Restore I This password is used when Mode.	Mode Administrator Password you start the computer in Directory Services Restore
	Type and confirm the passwo when this server is started in I	ord you want to assign to the Administrator account used Directory Services Restore Mode.
	The restore mode Administrat account. The passwords for t both.	tor account is different from the domain Administrator the accounts might be different, so be sure to remember
	Restore Mode <u>P</u> assword:	•••••
	<u>C</u> onfirm password:	•••••
	For more information about Di	irectory Services Restore Mode, see <u>Active Directory Help</u> .
		< <u>B</u> ack <u>N</u> ext > Cancel
		Fig.30
Passi	word per il Restore Mode e c	Fig.30 clicchiamo su Next
Pass	word per il Restore Mode e c i ve Directory Installation Wi a	Fig.30 clicchiamo su Next zard
ass Act	word per il Restore Mode e c i <mark>ve Directory Installation Wi</mark> : Summary	Fig.30 clicchiamo su Next zard
ass Act	word per il Restore Mode e d ive Directory Installation Wi Summary Review and confirm the optic	Fig.30 clicchiamo su Next zard ons you selected.
Acti	word per il Restore Mode e d ive Directory Installation Wi Summary Review and confirm the option You chose to:	Fig.30 clicchiamo su Next zard ons you selected.
iss ict	word per il Restore Mode e d ive Directory Installation Wi Summary Review and confirm the option You chose to: Configure this server as the fi	Fig.30 clicchiamo su Next zard ons you selected. irst domain controller in a new forest of domain trees.
cti	word per il Restore Mode e d ive Directory Installation Wi Summary Review and confirm the option <u>You chose to:</u> Configure this server as the fi The new domain name is lab	Fig.30 clicchiamo su Next zard ons you selected. irst domain controller in a new forest of domain trees. I.prv. This is also the name of the new forest.
icti	word per il Restore Mode e d ive Directory Installation Wi Summary Review and confirm the option <u>You chose to:</u> Configure this server as the fir The new domain name is lab The NetBIOS name of the do	Fig. 30 clicchiamo su Next zard ons you selected. irst domain controller in a new forest of domain trees. I.prv. This is also the name of the new forest. omain is LAB1
cti	word per il Restore Mode e d ive Directory Installation Wi Summary Review and confirm the optic <u>You chose to:</u> Configure this server as the fi The new domain name is lab The NetBIOS name of the do Database folder: C:\WINDOV Log file folder: C:\WINDOV	Fig.30 clicchiamo su Next zard ons you selected. irst domain controller in a new forest of domain trees. I.prv. This is also the name of the new forest. omain is LAB1 WS\NTDS SNTDS VS\SYSVOL
Act	word per il Restore Mode e d ive Directory Installation Wi Summary Review and confirm the optic <u>You chose to:</u> Configure this server as the fi The new domain name is lab The NetBIOS name of the do Database folder: C:\WINDOV Log file folder: C:\WINDOV SYSVOL folder: C:\WINDOV The password of the new do the administrator of this comp	Fig.30 clicchiamo su Next zard ons you selected. irst domain controller in a new forest of domain trees. I.prv. This is also the name of the new forest. omain is LAB1 WS\NTDS S\NTDS WS\SYSVDL umain administrator will be the same as the password of puter.
cti	word per il Restore Mode e d ive Directory Installation Wi Summary Review and confirm the optic <u>You chose to:</u> Configure this server as the fi The new domain name is lab The NetBIOS name of the do Database folder: C:\WINDOV Log file folder: C:\WINDOV SYSVOL folder: C:\WINDOV The password of the new do the administrator of this comp	Fig.30 clicchiamo su Next zard ons you selected. irst domain controller in a new forest of domain trees. I.prv. This is also the name of the new forest. omain is LAB1 WS\NTDS S\NTDS WS\SYSVDL omain administrator will be the same as the password of outer.
Act	word per il Restore Mode e d ive Directory Installation Wit Summary Review and confirm the optic <u>You chose to:</u> Configure this server as the fi The new domain name is lab The NetBIOS name of the do Database folder: C:\WINDOV Log file folder: C:\WINDOV SYSVOL folder: C:\WINDOV The password of the new do the administrator of this comp To change an option, click B	Fig.30 clicchiamo su Next zard ons you selected. irst domain controller in a new forest of domain trees. onain is LAB1 WS\NTDS S\NTDS WS\SYSVOL umain administrator will be the same as the password of outer. water. To begin the operation, click Next.
ass\ Act	word per il Restore Mode e d ive Directory Installation Wit Summary Review and confirm the optic <u>You chose to:</u> Configure this server as the fi The new domain name is lab The NetBIOS name of the do Database folder: C:\WINDOW Log file folder: C:\WINDOW SYSVOL folder: C:\WINDOW SYSVOL folder: C:\WINDOW The password of the new do the administrator of this comp To change an option, click B	Fig.30 clicchiamo su Next zard ons you selected. irst domain controller in a new forest of domain trees. 1, prv. This is also the name of the new forest. omain is LAB1 WS\NTDS S\NTDS WS\SYSVOL omain administrator will be the same as the password of outer. wack. To begin the operation, click Next.

Fig.31

Clicchiamo su Next





Attendiamo qualche minuto fino al completamento dell'installazione



Clicchiamo su Finish per completare l'installazione



Fig.34

Clicchiamo su Restart Now pre riavviare la macchina e quindi per poter rendere effettive le modifiche

Log On to Wind	lows
J	Windows Server 2003 Standard Edition
Copyright © 1985-20	103 Microsoft Corporation Microsoft
<u>U</u> ser name:	Administrator
Password:	•••••
Log on to:	LAB1
	Log on using <u>d</u> ial-up connection
IT	OK Cancel Shut Down Options <<

Fig.35

Notiamo che al riavvio della macchina la schermata di Log On è cambiata.

In corrispondenza del campo Logon on to è comparso il dominio LAB1 creato in precedenza.

Quindi inseriamo la password e clicchiamo su OK.



Fig.36

All'interno di Administrative Tools apriamo Active Directory Users and Computers

2

Quindi clicchiamo di destro su lab1.prv e selezioniamo New quindi Organizational Unit

	New Object	- Organizat	ional Unit			2	×
	3	Create in:	lab1.prv/				
	N <u>a</u> me:						
- P							
				0	ĸ	Cancel	



Inseriamo il Nome dell'unità organizzativa che vogliamo creare. (Domain Objects)

Quindi clicchiamo su \mathbf{Ok}

All'interno della schermata di Figura 36 dovrebbe comparire l'unità organizzativa creata.

Adesso clicchiamo col tasto destro su Domain Objects e selezioniamo New quindi Organizational Unit

New Object - Organizationa	l Unit		×	
Create in: Iab	1.prv/Domain Objects	3		
N <u>a</u> me:				
Administrative User Accou	nts			i۸.
		ОК	Cancel	
	Fig.38			

Il nome della seguente Unità Organizzativa è Administrative User Accounts

Clicchiamo su **OK**



-2)

Fig.39

Adesso all'interno della schermata Active Directory Users and Computers dovremmo avere una situazione come mostrato in Figura 39

Adesso all'interno di Administrative User Accounts creo un nuovo uetnte denominato NetAdmin.

New Object - User	×
Create in: prv/Domain Objects/Administrative User Acc	counts
Eirst name: NetAdmin Initials:	
Last name:	
Full name: NetAdmin	
User logon name:	X
NetAdmin @lab1.prv	
User logon name (pre- <u>W</u> indows 2000):	
LAB1\ NetAdmin	
< <u>₿</u> ack <u>N</u> ext >	Cancel



Inseriamo le informazioni nei vari campi e clicchiamo su Next

-2)

٢	New Object - User	
	Create in: lab1.prv/Domain Objects/Administrative User Acc	
	Password:	
	Confirm password:	
	User must change password at next logon	
	✓ User cannot change password	
	R Password never expires	
	Account is disabled	
	< <u>B</u> ack <u>N</u> ext > Cano	el:



Inseriamo la Password e spuntiamo le seguenti opzioni

- User cannot change password Password never expires
- -

Clicchiamo su Next quindi Finish

🐗 Active Directory Users and Computers	
G Eile Action View Window Help	_ 8 ×
Active Directory Users and Computers [TO1NET: Active Directory Users and Computers [TO1NET: Saved Queries Builtin Computers Domain Controllers ForeignSecurityPrincipals Users Ø Domain Objects Administrative User Accounts	

Fig.42

All'interno di Active Directory Users and Computers dovrebbe esserci l'utente Netadmin

 \bigcirc

tAdmin Properties		? ×
Remote control General Address Member Of	Terminal Services Profile Account Profile Telephones Dial-in Environment	COM+ Organization Sessions
Member of:		
Domain Users	Tab1.prv/Users	
Add	<u>Remove</u>	
Set Primary Group	There is no need to change Primary you have Macintosh clients or POS applications.	group unless IX-compliant
	OK Cancel	Apply

Fig.43

Andiamo all'interno delle proprietà di Netadmin, per la precisione in Member Of e facciamo si che sia membro si Domain Admins quindi clicchiamo **OK** per usicre.

1

line to the sectory of the sector of the sec			
🎸 Eile Action <u>V</u> iew <u>W</u> indow <u>H</u> elp			_B×
) 😰 🛛 🐮 🖉 🕍 🖓 🍕 🗑		
Active Directory Users and Computers [TO1NE	TS Users 17 objects		_
E Gaved Queries	Name	Туре	Description
E Butte	Administrator	User	Built-in account fo
	Cert Publishers	Security Group	Members of this g
Domain Controllers	🛛 🥵 DnsAdmins	Security Group	DNS Administrato
	2 DnsUpdateProxy	Security Group	DNS clients who a
	🛛 🥵 Domain Admins	Security Group	Designated admin
Domain Objects	🛛 🥵 Domain Computers	Security Group	All workstations a
Administrative User Accounts	🛛 🥵 Domain Controllers	Security Group	All domain control
_	🛛 🥵 Domain Guests	Security Group	All domain guests
	🛛 🥵 Domain Users	Security Group	All domain users
	🛛 🥵 Enterprise Admins	Security Group	Designated admin
	Group Policy Creator Owners	Security Group	Members in this g
	🛛 🙍 Guest	User	Built-in account fo
	MelpServicesGroup	Security Group	Group for the Hel
	RAS and IAS Servers	Security Group	Servers in this gro
	🛛 🥵 Schema Admins	Security Group	Designated admin
	5UPPORT_388945a0	User	This is a vendor's
	🕼 TelnetClients	Security Group	Members of this g

Fig.44

Adesso in Users rinominiamo Administrator in NetMaster.

Quindi faccio LogOff e riaccedo con l'utente NetAdmin



Fig.45

Adesso all'interno di System Properties, nella sezione User Profiles clicchiamo su Setting.





Selezioniamo l'utente NetMaster e clicchiamo su Delete quindi OK.

Adesso all'interno di Administrative Tools selezioniamo Active Directory Domains and Trusts

Contractory Domains and Trust	5				
Eile <u>A</u> ction <u>V</u> iew <u>H</u> elp					
⇔ → 🗈 🖬 😭 🔂 🔮					
Active Directory Domains and Trusts	lab1.prv				
ab1.prv	Name	Туре			
	There are no items to show in this view.				
	<u> </u>				



Selezioniamo il dominio e clicchiamoci di destro selezionando l'opzione Raise Domain Functional Level...



Fig.48



Selezioniamo Windows Server 2003 e clicchiamo su Raise.

Raise Do	main Functional Level	1
1	This change affects the entire domain. After you raise the domain functional level, it cannot be reversed.	
	OK Cancel	
	Fig.49	

Clicchiamo OK.

Raise Doi	main Functional Level 🔀
(į)	The functional level was raised successfully. The new functional level will now replicate to each domain controller in the domain. The amount of time this will take varies, depending on your replication topology.

Fig.50

Clicchiamo \mathbf{OK} per terminare la conversione in Functional Level 2003

Active Directory Domains and Trust	s		
Eile <u>A</u> ction <u>V</u> iew <u>H</u> elp			
Active Directory Domains and Trusts	Active Directory Domains and Trusts		
Iab1.prv	Name	Туре	
	u∰Plab1.prv	domainDNS	

Fig.51

Selezioniamo la foresta e cliccando di destro selezioniamo Raise Forest Functional Level....





Di default dovrebbe essere selezionato Windows Server 2003, clicchiamo su Raise per effettuare la conversione.

R	aise For	est Functional Level
	⚠	This change affects the entire forest. After you raise the forest functional level, it cannot be reversed.
		OK Cancel
		Fig.53
C.licchiar	mo OK .	
R	aise For	est Functional Level
	į)	The functional level was raised successfully. The new functional level will now replicate to each domain controller in the forest. The amount of time this will take varies, depending on your replication topology.
		Fig.54

Clicchiamo OK per terminare la conversione in Functional Level 2003

Adesso all'interno di Administrative Tools selezioniamo Active Directory Sites and Services

WWW.CHIATTORAFFAELE.IT

Image: Start in Speer Window Help Image: Start in Speer in S	Active Directory Sites and Services					_ 8	×
Image: Stee and Services (TOINETS001.lsb1.prv) Image: Stee Service (ToINETS001.lsb1.prv) Image: Stee Serv	🙀 Eile Action Yiew Window Help					_ 문 .	×
Active Directory Sites and Services [TOINETSO01.lab1.prv] State Default-first-Ster-Name Stress Subnets 0 objects There are no items to show in this view.							
Ref Site Location Type Description Image: Servers ToterStellams There are no items to show in this view. Image: Servers Site Location Type Description Image: Servers ToterStellams There are no items to show in this view. There are no items to show in this view. Image: Servers Stription There are no items to show in this view. There are no items to show in this view. Image: Servers Stription Stription There are no items to show in this view. Image: Servers Stription Stription There are no items to show in this view. Image: Servers Stription Stription Stription Image: Servers Stripon Strip	Active Directory Sites and Services [TO1NETS001.lab1.prv]	Subnets 0 object	s				
There are no items to show in this view.	in ites	Name	Site	Location	Туре	Description	-
	Default-First-Site-Name ToINETSO01 MIDS Settings Inter-Site Transports SMTP Softmets			There are no items to show in i	this view.		
		•					Þ

Fig.55

Rinominiamo il sito Default-First-Site-Name in un nome più consono (Es. TORINO1)

Selezioniamo Subnet e cliccandoci di destro selezioniamo New Subnet

0

	-
6	
1	

New Object - Subnet	×
Create in: Iab1.prv/Configuration/Sites/Subnets	
A <u>d</u> dress: 10 . 1 . 1 . 0 Mask: 255.255.255.	
Name: 10.1.1.0/24	
Enter the subnet address and mask. This will be automatically translated into a subnet name in the form network/bits-masked. Example: address 10.14.209.14 mask 255.255.240.0 becomes subnet 10.14.208.0/20. Select a site object for this subnet.	
Site Name	
Default-First-Site-Name	
OK Cancel	



All'interno di questa maschera inseriamo la sottorete che si deve rivolgere a questo dominio.

•

Quindi clicchiamo su **OK**.

K Active Directory Sites and Services			
🖼 Eile <u>A</u> ction <u>V</u> iew <u>W</u> indow <u>H</u> elp		_8×	
Active Directory Sites and Services [TO1NETS001.lab1.prv]	10.1.1.0/24 0 ob	jects	
	Name	Туре	
TORINO1 General Servers TOINETSO01 TOIN	There are no items t	o show in this view.	
J			

Fig.57

Dovremmo ottenere una schermata come in Figura sovrastante

•



COMPLETAMENTO DELLA CONFIGURAZIONE DEL DNS

All'interno di Administrative Tools selezioniamo DNS.

🚊 dnsmgmt - [DNS\T01NETS001\Re	everse Lookup Zones]			
🚑 File Action View Window He	elp			_B×
← → 🖻 🖬 😰 😼	1 🗊 🔂			,
🚊 DNS	Reverse Lookup Zones 1 zone(s)			
TO1NETS001	Name	Туре	Status	
Event Viewer	🛐 10.1.1.x Subnet	Standard Pri	Running	
Reverse Lookup Zones				

Fig.58

Clicchiamo su View quindi Advanced per far comparire altri oggetti.

•

Selezioniamo il DNS Server (TO1NETS001) e cliccando di destro selezioniamo Properties.

Debug Logging Ever	nt Logging Monitoring ers Advanced	Security Root Hints
Server version number:	,	
J5.2 3790 (0xece) Server options:		
 □ Disable recursion (also disa ☑ BIND secondaries □ Fail on load if bad zone dat ☑ Enable round robin ☑ Enable netmask ordering ☑ Secure cache against poll 	ables forwarders) a ution	
Name checking:	Multibyte (UTF8)	
Load zone data on startup:	From Active Directory and	d registry 💌
Enable automatic scaveng	ging of stale records	
	7	
S <u>c</u> avenging period:	/ days	
S <u>c</u> avenging period:	7 days	et to Default



In Advanced selezioniamo l'opzione Enable automatic scavenging of stale records e clicchiamo OK per confermare il cambiamento.

🚊 dnsmgmt - [DNS\T01NETS001\Fo	orward Lookup Zones\lab1.prv]			<u>- 🗆 ×</u>
🚬 Eile Action View Window He	elp			_ Ð ×
← → 🗈 🖪 🗙 🚱	8			
	lab1.prv 10 record(s)	[_	[
Tornersoon Event Viewer Forward Lookup Zones Porward Lookup Zones Cached Lookup Zones Cached Lookups	Name msdcs sites tcp udp DomainDnsZones ForestDnsZones (same as parent folder) (same as parent folder) (same as parent folder) (same as parent folder) to1nets001	Start of Authority (SOA) Name Server (NS) Host (A) Host (A)	[43], to1nets001.lab1.prv., to1nets001.lab1.prv. 10.1.1.11 10.1.1.11	
]	

Fig.60

Selezioniamo la Forward Lookup Zone (lab1.prv) e cliccando di destro selezioniamo Properties.

lab1.prv Properties	? ×
Name Servers WINS General Start of Author	Zone Transfers
Status: Running Type: Primary Replication: Not an Active Directory-integrated zone	Paus <u>e</u> Change Change
Zone file name: ab1.prv.dns Dy <u>n</u> amic updates: Nonsecure and se	cure
Allowing nonsecure dynamic updates is a signific vulnerability because updates can be accepted f sources.	ant security from untrusted
, , , , , , , , , , , , , , , , , , ,	. I grigitt
OK Canc	el <u>A</u> pply

Clicchiamo su Aging...

60

z	one Aging/Scavenging) Properties	<u>? ×</u>	
\langle	🔽 Scavenge stale resou	rce records		
	No-refresh interval			
	The time between the and the moment when	most recent refresh of a record t the timestamp may be refreshed	imestamp again.	
	<u>N</u> o-refresh interval:	7 days	-	
	Refresh interval			• X
	The time between the be refreshed and the scavenged. The refres record refresh period.	earliest moment when a record ti earliest moment when the record sh interval must be longer than th	mestamp can can be e maximum	
	<u>R</u> efresh	7 days	•	
	The zone can be scaveng	ed after:		
	Date and time:	01/01/1601 1.00.00	_	
		ОК	Cancel	
		Fig.62		
Abilitiamo Scavenge stale	e resource records e	clicchiamo OK .		
DNS				×
You have The zone may not h	chosen to enable aging o transfer to secondary se be loaded by non-Window	on this Standard Primary zone, wh rvers will be unaffected. The zone is 2000 and non-Windows Server	nich will modify the e file saved on the 2003 DNS servers	zone file format. Primary server
Do you st	till want to apply these se	ttings to this Standard Primary zo	ne?	

Yes	No	
-----	----	--

Fig.63

Clicchiamo Yes.



Fig.64

Sempre all'interno di questa maschera selezioniamo Change...

2

	Change Zone Type
	Select a zone type:
	Primary zone
	Stores a copy of the zone that can be updated directly.
	© Secondary zone
	Stores a copy of an existing zone. This option helps balance the processing load of primary servers and provides fault tolerance.
	Stub zone Stores a copy of a zone containing only NS, SOA, and possibly glue A records. A server containing a stub zone is not authoritative for that zone.
<	Store the zone in Active Directory (available only if DNS server is a domain controller)
	OK Cancel

Fig.65

Abilitiamo l'opzione Store the zone in Active Directory e clicchiamo OK



DNS	X
1	Do you want this zone to become Active Directory integrated?
	<u>Yes</u> <u>N</u> o

Fig.66

Clicchiamo Yes quindi Apply.

r.prv Pro	perties			?	×
Name	Servers	WINS Start	Zor of Authority	e Transfers / (SOA)	
Status: Type: Replicatior	Running Active Directory h: All DNS servers domain	v-Integrated in the Active Direc	tory	Paus <u>e</u> Change Change	K.
Data is sto Dy <u>n</u> amic u <u>(</u>) Allo	ored in Active Dire pdates: wing nonsecure dy	ctory.	ly significant	security	>
vuln	erability because	updates can be ac	cepted from	untrusted	
vulr sou To set agi	ierability because rces. ng/scavenging pro	updates can be ac	cepted from	Aging	



In corrispondenza di Dynamic updates selezioniamo Secure only e clicchiamo su Apply, quindi OK.

Adesso per la Reverse Lookup Zones facciamo la stessa e identica cosa fatta per la Forward Lookup Zone.

Alla fine di tutto riavviamo la macchina per rendere effettive tutte le modifiche effettuate.