# LAMPIRAN A :

#### Konfigurasi IP Address pada Site Jakarta

- Konfigurasi *IP Address* berikut langkah-langkah untuk mengkonfigurasi *IP Address*:
- 1. Klik hyperlink Manage Network Connections pada applet Net work and Sharing Center.
- Di dalam window Network Connections pilih NIC yang akan di konfigurasi dan klik-kanan pada ikon NIC tersebut lalu pilih menu properties.
- 3. Pilih *checkbox* Internet Protocol Version 4 (TCP/IPv4) di dalam *list* yang ada pada *window* Properties (lihat Gambar 4.1) dan klik tombol properties.
- Anda akan melihat Window Internet Protocol Version 4 (TCP/IPv4) Properties (Gambar 4.2). pilih tombol radio use the following IP. (obsi Option an IP Address automatically berarti mengaktifkan DHCP client).
- 5. Masukkan alamat *IPv4* untuk *server* berikut *subnet mask* dan alamat *IPv4* untuk *gateway/router* jika ada.
- 6. Masukkan alamat IPv4 DNS server

🖞 Local Area Connection Properties
Networking
Connect using:
Intel(R) PRO/1000 MT Network Connection
Configure
This connection uses the following items:
QoS Packet Scheduler     Question of Microsoft Networks     Anternet Protocol Version 6 (TCP/IPv6)     Anternet Protocol Version 4 (TCP/IPv4)     Anternet Protocol Version 4 (TCP/IPv4)
Install Uninstall Properties
Description Transmission Control Protocol/Internet Protocol. The default wide area network protocol that provides communication across diverse interconnected networks.
OK Cancel

# Gambar Window Properties NIC/Koneksi

Internet Protocol Version 4 (TCP/IPv	v4) Properties		
General			
You can get IP settings assigned automatically if your network supports this capability. Otherwise, you need to ask your network administrator for the appropriate IP settings.			
C Obtain an IP address automatically			
Use the following IP address:			
IP address:	192.168.1.200		
Subnet mask:	255.255.255.0		
Default gateway:			
C Obtain DN5 server address auton	natically		
Use the following DNS server add	resses:		
Preferred DNS server:	192.168.1.200		
Alternate DNS server:			
Validate settings upon exit	Advanced		
	OK Cancel		

Gambar Internet Protocol Version 4 (TCP/IPv4) Properties

#### LAMPIRAN B:

#### Konfigurasi IP Address pada Site Bekasi

Konfigurasi *IP Address* berikut langkah-langkah untuk mengkonfigurasi *IP Address*:

- 1. Klik hyperlink Manage Network Connections pada applet Network and Sharing Center.
- 2. Di dalam *window Network Connections* pilih NIC yang hendak di konfigurasi dan klik-kanan pada ikon NIC tersebut lalu pilih *menu properties.*
- 3. Pilih checkbox *Internet Protocol Version* 4(TCP/IPv4) di dalam list yang ada pada *window Properties* (lihat Gambar 4.3) dan klik tombol *properties*.
- Anda akan melihat Window Internet Protocol Version 4 (TCP/IPv4) Properties (Gambar 4.4). pilih tombol radio use the following IP. (obsi Option an IP Address automatically berarti mengaktifkan DHCP client).
- 5. Masukkan alamat *IPv4* untuk *server* berikut *subnet mask* dan alamat *IPv4* untuk *gateway/router* jika ada.

📱 Local Area Connection Properties
Networking
Connect using:
Intel(R) PRO/1000 MT Network Connection
Configure
This connection uses the following items:
Client for Microsoft Networks     Bos Packet Scheduler     Bos Packet Scheduler     Bel and Printer Sharing for Microsoft Networks     Anternet Protocol Version 6 (TCP/IPv6)     Anternet Protocol Version 6 (TCP/IPv6)     Anternet Protocol Version 7 (TCP/IPv6)     Anternet Protocol Version 7 (TCP/IPv6)     Anternet Protocol Version 9 (TCP/IPv6)     Anternet Proto
Install Uninstall Properties
Description Transmission Control Protocol/Internet Protocol. The default wide are network protocol that provides communication across diverse interconnected networks.
OK Cancel

Gambar Window Properties NIC/Koneksi

Internet Protocol Version 4 (TCP/IPv	/4) Properties	
General		
You can get IP settings assigned automatically if your network supports this capability. Otherwise, you need to ask your network administrator for the appropriate IP settings.		
Obtain an IP address automatical	ly	
• Use the following IP address:		
IP address:	192 . 168 . 1 . 201	
Subnet mask:	255 . 255 . 255 . 0	
Default gateway:		
C Obtain DN5 server address autor	natically	
Use the following DNS server add	fresses:	
Preferred DNS server:	192 . 168 . 1 . 200	
Alternate DNS server:		
Validate settings upon exit Advanced		
	OK Cancel	

Gambar Internet Protocol Version 4 (TCP/IPv4) Properties

#### LAMPIRAN C:

#### Konfigurasi Computer Name pada Site Jakarta

Langkah-langkah untuk mengkonfigurasi *Computer Name* adalah sebagai berikut:

- 1. Klik *Start*  $\rightarrow$  klik Computer  $\rightarrow$  Klik Kanan dan Pilih *Properties*.
- 2. Setelah mengklik pada *properties* maka akan muncul tampilan *window view basic information about your computer*.



#### Gambar System (view basic information about your computer)

Pilih changes setting pada dialog box System Properties → pilih Tab
 Computer Name → pilih Change →

Computer Name/Domain Changes	×
You can change the name and the membership of this computer. Changes might affect access to network resources. More information	
Computer name: WIN-OT96LNVGALT	-
Full computer name: WIN-OT96LNVGALT	
More	J
Member of	1
C Domain:	
Workgroup:	
WORKGROUP	
OK. Cancel	

# Gambar Computer Name/Domain changes

4. Hapus *Computer Name* Sebelumnya dan berikan *Computer Name* yang telah ditentukan "**ADJKT001**", setelah itu klik *Ok*.

Computer Name/Domain Changes 🛛 🔀
You can change the name and the membership of this computer. Changes might affect access to network resources. <u>More information</u>
Computer name: ADJKT001
Full computer name: ADJKT001
More
Member of
O Domain:
• Workgroup:
WORKGROUP
OK Cancel

## Gambar Computer Name/Domain changes mengisi nama komputer

5. Setelah itu pilih komputer akan meminta restart, Klik Ok.



Gambar Proses restart setelah memberi nama komputer

#### LAMPIRAN D :

#### Konfigurasi Computer Name pada Site Bekasi

Langkah-langkah untuk mengkonfigurasi *Computer Name* adalah sebagai berikut:

- 1. Klik Start  $\rightarrow$  klik Computer  $\rightarrow$  Klik Kanan dan Pilih *Properties*.
- 2. Setelah mengklik pada *properties* maka akan muncul tampilan *window view basic information about your computer*.



#### Gambar System (view basic information about your computer)

Pilih changes setting pada dialog box System Properties → pilih Tab
 Computer Name → pilih Change →

Computer Name/Domain Changes	×
You can change the name and the membership computer. Changes might affect access to netw More information	of this ork resources.
Computer name: WIN-OT96LNVGALT	
Full computer name: WIN-OT96LNVGALT	
	More
Member of	
O Domain:	
Workgroup:	
WORKGROUP	
OK.	Cancel

# Gambar Computer Name/Domain changes

- 4. Hapus Computer Name
- Sebelumnya dan berikan *Computer Name* yang telah ditentukan "ADJKT001", setelah itu klik Ok.

Computer Name/Domain Changes
You can change the name and the membership of this computer. Changes might affect access to network resources. <u>More information</u>
Computer name: ADBKS001
Full computer name: ADBKS001
More
Member of
C Domain:
Workgroup:
WORKGROUP
OK Cancel

Gambar *Computer Name/Domain changes* mengisi nama komputer

6. Setelah itu pilih Computer akan meminta restart, Klik Ok.



Gambar Proses restart setelah memberi nama komputer

### LAMPIRAN E :

## Konfigurasi Active Directory Domain Services pada Site Jakarta

Langkah – langkah yang di lakukan adalah sebagai berikut :

1. Pada Console Server Manager pilih menu Roles

🏭 Server Manager			
File Action View Help			
(* *) 🔽 🔛			
<ul> <li>Server Manager (AD3KT001)</li> <li>Roles</li> </ul>	Server Manager (ADJKT001)		
Features     Diagnostics	Get an overview of the stat	tus of this server, perform top management tasks, and ad	id or remove server roles and features.
Configuration     Storage			
	Server Summary		Server Summary Help
	Computer Information		Activate Windows
	Full Computer Name:	ADJKT001	🔛 Change System Properties
	Workgroup:	WORKGROUP	View Network Connections
	Local Area Connection:	192.168.1.200, IPv6 enabled	Configure Server Manager Remote
	Remote Desktop:	Disabled	Planagement
	Server Manager Remote Management:	Enabled	
	Product ID:	Not activated	
	Do not show me this console a	at logon	
	Security Information		😭 Go to Windows Firewall
	Windows Firewall	Public Off	Configure Updates
	Collecting Data		

Gambar Server Manager

2. Pada menu role pilih menu add Role



Gambar Menu add role

3. Pada Wizard add Role pilih Next



Gambar Proses instalasi role server

4. Pilih role Active Directory Domain Services pada Wizard Select Server Roles

Add Roles Wizard		×
Select Server Ro	les	
Before You Begin Server Roles Confirmation Progress Results	Select one or more relies to install on this server.  Rise:  Cube:  Cube:  Cube: Cub	Description: Adive Directory Coman Services (AD Distores information about objects on the network administer network administer domain controlliers to users and network diministrators, AD Disco domain controlliers to users and network diministrators, AD Disco domain controlliers to users and snywhere on the network through a single logon process.

**Gambar Select Server Roles** 

5. Ketika melakukan instalasi role AD DS, dibutuhkan prequestis Net Framework 3.5.1, Pilih Add Required Feature



Gambar Instalasi .Net Framework 3.5.1

## 6. Setelah itu pilih Next



Gambar Setelah preoses instalasi .Net Framework

7. Pilih Next

Add Roles Wizard	X X
Active Directory	Domain Services
Befrer You Begin Server Naks Active Cereutry Sponen Services Confirmation Progress Results	Introduction to Active Directory Domain Service           Areha Directory Cook Steres Information and Laters, computers, and other devices on the collaboration behaviour service. AD Dis bala interarellife directory wandpare than information and facilitatis resource along and collaboration behaviour service. AD Dis bala interarellife directory wandpare to the directory of the collaboration behaviour service. AD Dis bala interarellife directory wandpare to the directory of the collaboration behaviour service and the other windows Service to the directory of the collaboration behaviour service and the collaboration behaviour service and the other windows Service to the directory of the collaboration behaviour service and the collaboration behaviour service set and the collaboration behaviour service and the collaboration behaviour services and the collaboration services and the collaboration behaviour services and the collaboration and the collaboration services and the collaboration servic
	< Previous Next > Enstal Cancel

Gambar Active Directory Domain Services

8. Pilih *install* pada *Wizard* untuk melakukan konfirmasi peng-*instalan AD DS* dan *Net.Framework* 

Add Roles Wizard		×
Confirm Installat	ion Selections	
Befre You Begin Sentri Yoksi Achte Onectory Donain Services Conference Results Results	To natalit the following roles; role services; or features; dok betall.         ① 2 informational messages below         ④ The server might need to be retarting after the installation completes.         ④ Attroe Develop Domain Service (drymource) to hand the server at Alfy Actional domain controller.         ④ Attroe Develop Domain Service (drymource) to hand the server at Alfy Actional domain controller.         ④ Attroe Develop Domain Service (drymource) to hand the server at Alfy Actional domain controller.         ④ Attroe Develop Domain Service (drymource) to hand the server at Alfy Actional domain controller.         ④ Attroe Teramework 3.3.1 Features ART Framework 3.3.3	
	Print, e-mail, or save this information	
	< Previous Next > Instal Cancel	J

# Gambar Konfirmasi instalasi AD DS dan .Net Framework

9. Proses instalasi sedang berlangsung

	s Wizard	
Installation Progress	Installation Progress	
Before You Begin Same Roles Active Detectory Domain Services Confermation Results Resu	tou lingin toles teredor y Domain Services ator total teredor bioectory Domain Services 	restelet:

Gambar Proses instalasi AD DS dan .Net Framework

10. Pilih close padaa *Wizard*, untuk melakukan konfirmasi instalasi telah selesai dilakukan



Gambar Installation Result

11. Setelah instalasi *roles AD DS* telah selesai dilakukan, maka *menu Role* akan menambah *menu* baru, yaitu *Active Directory Domain Services*, pilih *menu* tersebut.

Server Hanager			-101
File Action View Help			
• • 2 10 🖬			
Server Manager (AD3KT001)	Roles		
Bales     Bales     Bales     Bales     Bales     Bales     Bales     Configuration     Storage	Yes the health of the roles installed on your server and add or remove roles and features.		
	🔿 Roles Summary	Acies Summary Help	
	Roles: 1 of 17 installed     Active Develop: Company Services	Add Rates	
	Active Directory Domain Services	Артосяние	
	Stores directory data and manages communication between users and domains, including user logon processe	s, authentication, and directory searches.	
	Role Status	Go to Active Directory Comain Services	
	Messages: 1		
	System Services: 4Running, 6 Stopped		
	Events: None in the last 24 hours		
	Best Practices Analyzer: To start a Best Practices Analyzer scan, go to the Best Practices Analyzer Bie on this role's homepage and dick Scan this Bale		
	O subtraction and the state		

Gambar Menu Roles menambahkan menu Active Directory Services

12. Pilih menu Active Directory Domain Services pada role tersebut

Server Hanager			_ 0
Elle Action Yew Help			
🕈 🕸 🔁 📅 📓			
Server Manager (ADJKT001)	Active Directory Domain Services		
Active Directory Domain Se     Features     Degnostics     Konforzation	Stores directory data and manages communication between users and domains, including user logon; searches.	processes, authentication, and directory	
Storage	Summary		
		alian (Marial (damage and)	
	(g) This server is not yet running as a comain controller. <u>Not the Active Directory Domain Services Installe</u>	FOOT WITH TO TO DO TO TO TO TO TO	
	Events: None in the last 24 hours	Go to Event Viewer	
	7 Number of events: 0	By Filter Events	
	Level Event ID Date and Time Source	Properties	
	C C Catalog Control (Control	0.000	
	C a special services maning contactor	tag de la de vices	

Gambar Menu Active Directory Domain Services

# 13. Pada menu Wizard AD DS instalation pilih Next

Active Directory Domain	Services Installation Wizard	×
	Welcome to the Active Directory Domain Services Installation Wizard This wizard helps you initial Active Directory Domain Services (AD DS) on this server, making the server an Active Directory domain controller. To continue, click Neal.	
	Use advanced mode installation Learn more about the additional options that are available in <u>advanced mode installation</u> .	
	More about <u>Active Directory Domain Services</u>	
	< Back. Next > Cancel	

### Gambar Menu Wizard Active Directory Domain Services

### 14. Pilih Next

Active Directory Domain Services Installation Wizard	X
Operating System Compatibility Improved security settings in Windows Server 2008 and Windows Server 2008 R2 affect older versions of Windows	
Windows Server 2008 and "Windows Server 2008 R2" domain controllers have a new more secure default for the security setting named "Allow cryptography algorithms compatible with Windows NT 4.0. "This setting prevents Microsoft Windows and non-Microsoft SIM "Circles" from using weeker NT 4.0 style cryptography algorithms when establishing security channel sessions against Windows Server 2008 or "Windows Server 2008 R2" domain controllers. As a result of this new default, operations or applications that require a security channel serviced by Windows Server 2008 or "Windows Server 2008 R2" domain controllers may fit fail. Platforms impacted by this change include Windows NT 4.0, as well as non-Microsoft SIMB "Cients" and network-attached dorage (NAS) devices that do not support stronger cryptography algorithms. Some cereations on clients running versions of Windows Server 2008 R2" domain controllers may fit fail. Platforms impacted by this change include Windows NT 4.0, as well as non-Microsoft SIMB "Cients" and network-attached dorage (NAS) devices that do not support stronger cryptography algorithms. To expect the 2008 or "Windows Server 2008 R2" domain controllers may fit fail. Platforms impacted by this change include Windows NT 4.0, as well as non-Microsoft stronger cryptography algorithms. To expect peak 1 are also impacted, including domain jon operations performed by the Active Directory Migration. To do r Windows Deployment Services. For more information about this setting, see Krowledge Base atticle 942564 (http://go.microsoft.com/fwlirk/?Linkid=104751).	
< Back Next > Cancel	

Gambar Active Directory Domain Services Installation Wizard

#### 15. Pilih Create a new Domain in a new forest dan pilih Next



#### Gambar Membuat Domain baru dan membuat forest baru

16. Berikan nama Domain "cargoexpress.com" dan pilih Next



Gambar Memberi nama forest root Domain

### 17. Pilih forest funcional level Windows Server 2008 dan pilih Next

ctive Directory Domain Services Installation Wizard	×
et Forest Functional Level Select the forest functional level.	
Forest functional level:	
Windows Server 2008	•
Details:	
This forest functional level does not provide any new features over the Windows 2003 forest functional level. However, it ensure that any new domains created in this forest will automatically operate at the Windows Server 2008 domain functions level, which does provide unique features.	<u>م</u> ا
A You will be able to add only domain controllers that are running Windows Server 2008 or later to this forest.	
More about domain and forest functional levels	
< Back Next >	Cancel

# Gambar Menentukan forest funcional level

18. Pilih Domain funcional level Windows Server 2008 dan pilih Next

of Active Directory Domain Services Installation Wizard	×
Set Domain Functional Level Select the domain functional level.	
Domain functional level:	
Windows Server 2008	<b>_</b>
Details:	
The features available at the Windows Server 2008 domain functional level include all features available at the Windows Server 2003 domain functional level and the following additional features: Distributes file System Replication on SYSVDL which provides more include and and an analysis of SYSVDL contents. Advanced Encryption Services (AES 128 and 256) support for the Keeberos protocol. Last Interactive Logon Information, which displays the time of	
You will be able to add only domain controllers that are running Windows Server 2008 or later to this domain.	
More about <u>domain and forest functional levels</u>	
< Back Next >	Cancel

Gambar Menentukan Domain funcional level

19. Untuk melakukan instalasi AD DS diperlukan DNS sebagai pondasi AD DS dan pilih Next

Additional Domain Controller Options	
Select additional options for this domain controller.	
DNS server	
🔽 Global catalog	
Read-only domain controller (RODC)	
Additional information:	
We recommend that you install the UNS Server service on the first domain controller.	v
We recommend that you install the UNS server service on the first domain controller.	T
We recommend that you install the UNS Server service on the first domain controller.	T
We recommend that you install the UNS Server service on the first domain controller.	Y

# Gambar Additional Domain Controller Options

20. Pada Next untuk melakukan konfirmasi

Active	Directory Domain Services Installation Wizard	×
<b></b>	A delegation for this DNS server cannot be created because the authoritative parent zone cannot be found or it does not run Windows DNS server. If you are integrating with an existing DNS infrastructure, you should manually create a delegation to this DNS server in the parent zone to ensure reliable name resolution from outside the domain "cargoexpress.com". Otherwise, no action is required. Do you want to continue?	
	Yes No	

Gambar Konfirmasi DNS AD DS

21. Pilih *Next* untuk melakukan konfirmasi direktori penyimpanan *AD DS* dan pilih *Next* 

Active Directory Domain Services Installation Wizard	×
Location for Database, Log Files, and SYSVOL Specify the folders that will contain the Active Directory domain controlle database, log files, and SYSVOL.	er 🔛
For better performance and recoverability, store the database and log fil volumes.	es on separate
Database folder:	
C:\Windows\NTDS	Browse
Log files folder:	
C:\Windows\NTDS	Browse
SYSVOL folder:	
C:\Windows\SYSVOL	Browse
More about placing Active Directory Domain Services files	
< Back Next >	Cancel

## Gambar Konfirmasi direktori penyimpanan AD DS

22. Berikan Password untuk melakukan system restore dan pilih Next

Active Directory Domain	Services Installation Wizard	×
Directory Services Rest	ore Mode Administrator Password	
The Directory Services F Administrator account.	Restore Mode Administrator account is different from the do	main
Assign a password for th controller is started in Dir choose a strong passwo	e Administrator account that will be used when this domain rectory Services Restore Mode. We recommend that you rd.	1
Password:	•••••	
Confirm password:		
More about <u>Directory Se</u>	rvices Pestore Mode password	
	< Back Next >	Cancel

Gambar Directory Services Restore Mode Administrator Password

23. Pilih Next untuk melakukan instalasi AD	DS
---	----

ave birectory bomain serv	vices Installation Wizard	
mmary		
Review your selections:		
Configure this server as the fin	rst Active Directory domain controller in a new forest	
The new domain name is "car forest.	rgoexpress.com". This is also the name of the new	
The NetBIOS name of the dor	main is "CARGOEXPRESS".	
Forest Functional Level: Wind	dows Server 2008	
Domain Functional Level: Win	ndows Server 2008	
Site: Default-First-Site-Name		<b>•</b>
To change an option, click Ba	ack. To begin the operation, click Next.	_
These settings can be exporte other unattended operations.	ed to an answer file for use with Export setting	IS

### Gambar Instalasi AD DS

24. Proses Instalasi Service AD DS dan DNS sedang berlangsung dan pilih

reboot on completion



Gambar Instalasi Service ADDS dan DNS

# LAMPIRAN F:

### Konfigurasi Active Directory Domain Services pada Site Bekasi

1. Pada Console Server Manager pilih menu Roles

Server Hanager		the second s		
File Action View Help				
44 T				
L Senier Hanager (ADXT001) R Dates R DE Features R Dagnostics R Dagnostics R Dagnostics	Server Hassager (AD3K1001)	ola of this server, perform top management tasks, and a	dd or remove server roles and flustures.	
	Server Summary		Cover Summer Help	Ť
	Computer Information Full Computer Name: Warkgroup: Local Area Connection: Benetic Contextor: Serier Namuer Remote Managements Product ID: Dis not show me the canade	ADX0001 IndorgaDUP 1912, 384, 2009, Pr-4 embled Deabled Brailed Not Activated artigen	<ul> <li>R-Arbate Hindow</li> <li>Charge system Propriets</li> <li>Wen Hindow Concertain</li> <li>Configure Amount Overage</li> <li>Configure Amount Overage</li> <li>Configure Force Neuroger Result</li> <li>Management Neuroper Result</li> </ul>	
	Security Information Vinctum French	pair off	😭 Go to Windows Frenall 🖉 Canfigure Lipidates	

Gambar Server Manager

2. Pada menu role pilih menu add Role



Gambar Menu role

3. Pada add Role Wizard pilih Next



Gambar Add Role Wizard

4. Pilih *role Active Directory Domain Services* pada *Wizard* Select Server *Roles* 

Add Roles Wizard		×
Select Server Ro	les	
Before You Begin Generation Progress Results	Actor de neuro rades lo instali on this server.     Tel:     Contectory Certificate Services     Actore Decisiony Robertado Robertado     Rober	Description: And the second second second second second or the second second second second second density of the second second second second density of the second
	< Previous TVEXE	Cance

Gambar Select Server Roles

5. Ketika melakukan instalasi role AD DS, dibutuhkan prequestis Net Framework 3.5.1, Pilih Add Required Feature

Add Roles	Wizard		×
¢:	Add features required for Active Director You cannot install Active Directory Domain Services unless th Features:	ory Domain Services? ne required features are also installed. Description:	
	○ INET Framework 3.5.1 Features INET Framework 3.5.1	Microsoft. NET Framework 3.5.1 combines the power of the .NET Framework 2.0 APIs with new technologies for building applications that offer appealing user interfaces, protect your customers' personal identity information, enable seamless and secure communication, and provide the ability to model a range of business processes.	
		Add Required Features Cancel	

Gambar Installation .Net Framework 3.5.1

6. Setelah itu pilih Next.

Add Roles Wizard		]
Select Server Ro	les	
Before You Begin Server Solas Active Directory Domain Services Confirmation Progress Results	Select one or more roles to instal on this server. Role:	Description: Active Directory Domain Services (AD DS) stores information about objects information available to users and antwork administrators. AD DS uses domain controllers to give network support of the network through a single logon process.
	< Previous Next	> Install Cancel

Gambar Server Roles

#### 7. Pilih Next.



Gambar Active Directory Domain Services

8. Pilih *install* pada *Wizard* untuk melakukan konfirmasi peng-*installan AD DS* dan *Net.Framework.* 

Add Roles Wizard		×
Confirm Installa	tion Selections	
Before You Begin Server Roles Active Directory Domain Services	To install the following roles, role services, or features, click Install.  2 Informational messages below  (1) To an use unit had on the accentrated other this containance councience.	
Progress	Active Directory Domain Services	
Annalis	After ground if the KO DS rain, use the Arbit Directory Downs Services Installation Waard (dogmous and long the first error of Arf Aractinal down controler.     (S) MET Framework 3.5.1 Features AET framework 3.5.1 Peatures	
	Prot. e-mail. or save this information	
	<previous not=""> Instal Cancel</previous>	

Gambar Konfirmasi instalasi AD DS dan .Net Framework

9. Proses instalasi sedang berlangsung.

Add Roles Wizard				
Installation Prog	ess			
Before You Begin	The following roles, role services, or features are being installed:			
Server Roles	Active Directory Domain Services			
Active Directory Domain Services	JIET Framework 3.5.1 Features			
Confirmation				
Results				
	Pritakzing installation			
	<previous next=""> Instal Cancel</previous>			

# Gambar Proses instalasi AD DS dan .Net Framework

10. Pilih *close* padaa *Wizard*, untuk melakukan konfirmasi bahwa instalasi telah selesai dilakukan.

The following roles, role services, or features were installed successfully:      ① I warring, 1 informational messages below      ① Wridens automatic updating is not enabled. To ensure that your newly-installed role or feature is
The following roles, role services, or features were installed successfully:      1 warring, 1 informational messages below      Wroles suchasis updates is not enabled. To ensure that your newly-installed role or feature is
Windows automatic updating is not enabled. To ensure that your newly-installed role or feature is
automatically updated, turn on Windows Update in Control Panel.
Active Directory Domain Services     Ø Installation succeeded
The following role services were intalled: Active Directory Domain Control yours and the server a fight factory Density Control of the server a fight factory Density Control of the server and fight factory Density of the server and the server and the server and the server as a service of the server of the server and the server as the Density of the server as a service of the server of the server as a service of the server as a service of the Density of the server as a service of the server of the server of the server as a service of the server of th
The following features were installed: JBTY Framework 3.5.1
Prot. e-mail. or save the installation report
8

Gambar Installation Result

11. Setelah instalasi *roles AD DS* telah selesai dilakukan, maka *menu Role* akan menambah *menu* baru, yaitu *Active Directory Domain Service*, pilih *menu* tersebut



Gambar Menu Roles menambahkan menu Active Directory Services

12. Pilih menu Active Directory Domain Service pada role tersebut

Server Hanager		_D×
Ele Action Yew Help		
🗢 🔿 🗾 🖬 📓		
Server Manager (AD3KT001)	Active Directory Domain Services	
P Roles     P Actes     P Active Directory Domain Se     P Active Directory Domain Se     P Peatures     P Diagnostics     P Actes	Stores dectory data and manages communication between users and domains, including user logon processes, authentication, and directory samples.	
E Storage	A Summary	-
	(i) This server is not yet running as a domain controller, <u>Run the Active Cirectory Domain Services Installation House (Depromotedes</u> )	
	Events: None in the last 24 hours     Go to Event Viewer	
	Vumber of events: 0	
	Level Event ID Date and Time Source	
	System Services: 4Running, 6 Stopped G to Services	-
1 N	Q Last Refresh: Today at 3:28 PM Configure refresh	

Gambar Menu Active Directory Domain Service

Active Directory Dom	ain Services Installation Wizard	×
	Welcome to the Active Directory Domain Services Installation Wizard	
	This witzed helps you install Active Directory Domain Services (AD DS) on this server, making the server an Active Directory domain controller. To continue, click Next.	
	Use advanced mode installation Learn more about the additional options that are available in <u>advanced mode installation</u> .	
	More about <u>Active Directory Domain Services</u>	
	(Back Ned 5 Canel	1

## 13. Pada menu Wizard AD DS instalation pilih Next

# Gambar Menu Wizard AD DS instalation

## 14. Pilih Next

Active Directory Domain Services Installation Wizard
Operating System Compatibility Improved security settings in Windows Server 2008 and Windows Server 2008 R2 affect older versions of Windows
★ Windows Server 2008 and "Windows Server 2008 R2" domain controllers have a new more secure default for the security setting named "Move cryptography algorithms one-filencent" SMB "clients" from using wavker N14 0 style cryptography algorithms when establishing security channel session signation. Server 2008 or "Windows Server 2008 R2" domain controllers. As result of this new default, operations or applications that require a security channel session Server 2008 or "Windows Server 2008 R2" domain controllers. As a result of this new default, operations or applications that require a security channel session Server 2008 or "Windows Server 2008 R2" domain controllers. Ms a result of this new default, operations or applications that require a security channel session dow Server 2008 or "Windows Server 2008 R2" domain controllers. Ms a result of this new of Moreovert SNB "Clients" and network-attached storage (NAS) devices that do not support stronger cryptography lagorithms. Some operations on clients uning versions of Windows and provide that with Service Pack: 1 are also impacted, including domain jon operation performed by the Active Directory Migration Tool or Windows Deployment Services. For many information about this setting, see Knowledge Base atticle 942564 (http://go.microsoft.com.fwlink:/?Linkid=104751).
< Back Next > Cancel

Gambar Active Directory Domain Services Installation Wizard

15. Server bekasi merupakan AD DS Additional dari AD DS di Jakarta, oleh karena itu Deployment yang dipilih menggunakan exiting forest dan pilih Next

a Active Directory Domain Services Installation Wizard	×
Choose a Deployment Configuration You can create a domain controller for an existing forest or for a new forest.	
Existing forest	
Add a domain controller to an existing domain	
C Create a new domain in an existing forest This server will become the first domain controller in the new domain.	
C Create a new domain in a new forest	
More about possible deployment configurations	
< Back Next >	Cancel

## Gambar Memilih exsiting forest

16. Berikan nama *Domain forest* yang akan digunakan dan pilih *set* untuk memberikan *account* yang digunakan

Active Directory Domain Services Installation Wizard	×
Network Credentials Specify the name of the forest where the installation will occur and account credentials that have sufficient privileges to perform the installation.	
Type the name of any domain in the forest where you plan to install this domain controller:	
cargoexpress.com	
Specify the account credentials to use to perform the installation:	
C My current logged on credentials (ADBKS001\Administrator)	
The current user credentials cannot be selected because they are local to th computer. A set of domain credentials is needed.	is
Atemate credentials:	
Set	
More about who can install Active Directory Domain Services	
< Back Next > C	ancel

## Gambar Domain forest yang akan digunakan

17. Berikan account yang berhak untuk melakukan additional *Domain* "menggunakan *account administrator*" dan pilih Ok

💽 Windows Sec	urity	×
Network Cred Specify the acco	entials unt credentials to use to perform the installation:	_
	User name Password Domain: cargoexpress.com	
	OK Cancel	]

Gambar Windows Security

18. Konfirmasi keberadaan forest root Domain

Active Directory Domain Services Installa	tion Wizard		×
Select a Domain			
Select a domain for this additional domain co	ntroller.		
Domains:			
cargoexpress.com (forest root doma	ain)		
	< Back	Next >	Cancel

## Gambar Konfirmasi adanya forest root domain

 Untuk melakukan instalasi AD DS diperlukan DNS sebagai pondasi AD DS dan pilih Next

\overline Active Directory Domain Services Installation Wizard	×
Additional Domain Controller Options	
Select additional options for this domain controller.	
V DNS server	
Global catalog	
Read-only domain controller (RODC)	
Additional information:	
There is currently 1 DNS server that is registered as an authoritative name server for this domain.	×
, More about <u>additional domain controller options</u>	
< Back Next >	Cancel

Gambar Additional Domain Controller Options

20. Pilih *Next* untuk melakukan konfirmasi direktori penyimpanan *AD DS* dan pilih *Next* 

Active Directory Domain Services Installation Wizard	×
Location for Database, Log Files, and SYSVOL. Specify the folders that will contain the Active Directory domain controll database, log files, and SYSVOL.	er 📃
For better performance and recoverability, store the database and log fil volumes.	es on separate
Database folder:	
C:\Windows\NTDS	Browse
Log files folder:	
C:\Windows\NTDS	Browse
SYSVOL folder:	
C:\Windows\SYSVOL	Browse
, More about <u>placing Active Directory Domain Services files</u>	
< Back Next >	Cancel

#### Gambar Konfirmasi direktori penyimpanan AD DS

21. Proses Instalasi *Service* AD DS dan *DNS* sedang berlangsung dan pilih *reboot on completion* 



Gambar Instalasi Service AD DS dan DNS

# LAMPIRAN G:

#### Konfigurasi Reverse Lookup Zone

Pada menu start Pilih start  $\rightarrow$  Administrative Tools  $\rightarrow$ Pilih DNS  $\rightarrow$  pilih

Reverse Lookup Zone  $\rightarrow$  pilih New Zones



Gambar DNS Manager

1. Pilih Next pada welcome Wizard



Gambar New Zone Wizard

2. Pada new zone Wizard pilih primary zone dan pilih Next



#### Gambar Zone Type

3. Pilih *replication scope* untuk semua *Domain controller* yang terdapat pada *Domain* dan pilih *Next* 

New Zone Wizard	×
Active Directory Zone Replication Scope You can select how you want DNS data replicated throughout your network.	-
Select how you want zone data replicated:	
$\ensuremath{\mathbb{C}}$ To all DNS servers running on domain controllers in this forest: cargoexpress.com	
To all DNS servers running on domain controllers in this domain: cargoexpress.com	
C To all domain controllers in this domain (for Windows 2000 compatibility): cargoexpress.com	
${f C}$ To all domain controllers specified in the scope of this directory partition:	
	-
< Back Next > Cancel	

### Gambar Active Directory Zone Replication Scope

4. Pilih lookup zone dengan menggunakan IPv4 dan pilih Next

New Zone Wizard	×
Reverse Lookup Zone Name A reverse lookup zone translates IP addresses into DNS names.	-
Choose whether you want to create a reverse lookup zone for IPv4 addresses or IPv6 addresses.	
IPv4Reverse Lookup Zone	
C IPv6 Reverse Lookup Zone	
< Back Next > Cance	

### Gambar Reverse lookup Zone Name

5. Network ID yang digunakan adalah 192.168.1 dan pilih Next

New Zone Wizard		x
Reverse Lookup Zone Name A reverse lookup zone translates IP addres	sses into DNS names.	
To identify the reverse lookup zone, type th Network ID: 192_1681 The network ID is the portion of the IP a network ID in its normal (not reversed) If you use a zero in the network ID, it w network ID 10 would create zone 10.in- zone 0.10.in-addr.arpa.	he network ID or the name of the zone. addresses that belongs to this zone. Enter the order. vill appear in the zone name. For example, addr.arpa, and network ID 10.0 would create	
C Reverse lookup zone name:	]	
	< Back Next > Cancel	

# Gambar Mengisi Network ID pada reverse lookup zone

6. Untuk melakukan *update* didalam *Domain* menggunakan metode *secure update* dan pilih *Next* 



Gambar Dynamic update

7. Proses konfigurasi Reverse Lookup zone telah selesai dan pilih Finish

New Zone Wizard		×
	Completing the New Zone Wizard	
	You have successfully completed the New Zone Wizard. You specified the following settings:	
	Name: 1.168.192.in-addr.arpa	
	Type: Active Directory-Integrated Primary	
	Lookup type: Reverse	
	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 Finish Cancel	

Gambar Completing the new zone wizard

## LAMPIRAN H :

## Konfigurasi Pointer Reverse Lookup Zone

1. Pada *console DNS* pilih *menu* Reverse Lookup Zone dan klik kanan dan pilih *New Pointer (PTR)* 

L DNS Hanager				LO X
File Action View Help				
💠 🔿 🔰 📰 🖾 🕒 🖡				
ONG     O	Name Some as parent folder) (some as parent folder) Update Sen Reload Name North	Type Start of Authority (SGA Name Server (NS) er Data File	Data () [1], adjint01.cargoexpress adjint01.cargoexpress.com.	Tmestamp static static
	New Alas ( New Delega Other New I All Tasks	ZNAME) tion Records		
	Refresh Export List.			
	View			
	Arrange Ico Line up Icor Properties	ns 🔸		
	Help			
1 D	1			2

Gambar Menu Reverse Lookup Zone

2. Berikan IP Address dan Hostname (A)



#### Gambar New Resource Record

3. Proses penambahan pointer pada Reverse Lookup Zone telah selesai



Gambar Penambahan pointer pada Reverse Lookup Zone

*Record* yang berada di *DNS Master* (Jakarta) secara otomatis akan melakukan *update* terhadap *DNS Slave*-nya (Bekasi)

# DNS record yang terdapat di Jakarta dan Bekasi

# DNS Jakarta

🛔 DNS Manager				
File Action View Help				
🗢 🔿 🗾 🔝 🔀 🗈 🖻				
EVG     ADATTOL     ADAT	Name           _spte           _top           _top           Donen/Dn2Ones           Fores/Dn2Ones           (same as parent folder)           (ane as parent folder)	Type           Start of Authority (SOA)           Name Server (NS)           Name Server (NS)           Host (A)           Host (A)           Host (A)           Host (A)	Data         [38], adjkt001.cargoexpres           adjkt001.cargoexpres.com.         adjkt001.cargoexpres.com.           y2, 168.1.201         192.168.1.201           192.168.1.201         192.168.1.201           192.168.1.201         192.168.1.201	Static static static static static 8/14/2005-6-00-00 PM 8/14/2005-6-00-00 PM static static

# Gambar DNS Record yang ada di Site Jakarta

DNS Bekasi

1 DNS Manager				
File Action View Help				
🗢 🔿 🙍 🔚 🖪 🎍 📔				
🛔 DNS	Name	Туре	Data	Timestamp
Addresson     Addresson     Andresson     Andresson	jetes           up           DomanDrsZones           ForestDirsZones           (same as parent folder)           (addisout)	Start of Authority (SOA) Name Server (NS) Name Server (NS) Host (A) Host (A) Host (A) Host (A)	[38], adaks001.cargoevpre adjk001.cargoevpress.com. adjk001.cargoevpress.com. 192.168.1.201 192.168.1.201 192.168.1.201 192.168.1.201	static static static 8/14/2006 6:00:00 PM 8/14/2006 3:00:00 PM static static

Gambar DNS Record yang ada di Site Bekasi

DNS Forwarder pada Site Bekasi secara otomatis mengarah kepada Site Jakarta, DNS forwarder digunakan untuk melakukan permintaan translasi Domain jika Site Bekasi tidak dapat melakukannya.

ADBKS001 Prope	rties		? ×
Debug Logging Interfaces	Event Logging Forwarders	Trust Anchors   Mor Advanced	nitoring Security Root Hints
Forwarders are [ queries for record	ONS servers that this ds that this server car	server can use to res nnot resolve.	olve DNS
IP Address		Server FQDN	
192.168.1.200		adjkt001.cargoexpr	ress.com
Use root hint	s if no forwarders are	available	Edit
Note: If condition	nal forwarders are del	fined for a given dom	ain, they will be
used instead of s forwarders, navig	server-level forwarder gate to the Conditiona	s. To create or view al Forwarders node in	conditional the scope tree.
	OK Can	cel Apply	Help

Gambar DNS forwarder

### LAMPIRAN I :

## Test DNS dengan menggunakan NSlookup dari Windows 7 (Host)

a. Test dengan menggunakan NSlookup

Administrator: C:\Windows\system32\cmd.exe	×
C:\>nslookup cargoexpress.com Server: adjkt001.cargoexpress.com Address: 192.168.1.200	
Name: cargoexpress.com Address: 192.168.1.200	
C:\>nslookup 192.168.1.200 Server: adjkt001.cargoexpress.com Address: 192.168.1.200	
Name: adjkt001.cargoexpress.com Address: 192.168.1.200	
C:∖>	

Gambar NSlookup dari Windows 7 (Host)

b. Test dengan ping

C:\/ping cargoexpress.com
Pinging cargoexpress.com [192.168.1.200] with 32 bytes of Reply from 192.168.1.200: bytes=32 time<1ms TTL=128 Reply from 192.168.1.200: bytes=32 time<1ms TTL=128 Reply from 192.168.1.200: bytes=32 time<1ms TTL=128 Reply from 192.168.1.200: bytes=32 time<1ms TTL=128
Ping statistics for 192.168.1.200: Packets: Sent = 4, Received = 4, Lost = 0 (0% loss), Approximate round trip times in milli-seconds: Minimum = 0ms, Maximum = 0ms, Average = 0ms

Gambar Ping dari Windows 7 (Host)

#### LAMPIRAN J:

#### Site Jakarta

1. Pilih New  $\rightarrow$  *Site* 



# Gambar Active Directory Sites and Services

New Object - Site		×
Create in: cargoexpress.com/Co	nfiguration/Sites	
Name: Jakarta		
Select a site link object for this site. Site link o Sites/Inter-Site Transports container.	bjects are located in the	
Link Name	Transport	
H DEFAULTIPSITELINK	IP	
	OK Ca	ncel

Gambar Create New object-Site Jakarta

New (	Object - Site				×
	Creat	e in: cargo	express.com/Configu	ration/Sites	
Na Se	ame: elect a site link tes /Inter-Site T	Bekasi object for this	s site. Site link object:	s are located in the	;
	Link Name	PSITELINK	n can ren .	Transport IP	
_				ОК	Cancel

Create New object-Site Bekasi

#### LAMPIRAN K :

## Perpindahan Server pada ADJKT001 pada Site default ke Site Jakarta

1. Klik kanan pada server ADJKT dan pilih Move



Gambar Active Directory Sites and Services

2. Pilih Site yang dituju dan pilih Ok

Move Server		X
Select the site that should contain this service	ver:	
Site Name		
📑 Bekasi		
Default-First-Site-Name		
📜 Jakarta		
	ОК	Cancel

Move Server

#### LAMPIRN L :

#### Memberikan Deskripsi Site

1. Klik kanan pada Site Jakarta dan pilih properties



### Gambar Create New object-Site Jakarta

2. Memberikan deskripsi yang sesuai dengan Site dan klik ok

Jakarta Properties				? ×
General Location Ob	ject Security /	Attribute Editor		
Jakarta				
Description: Kantor	Pusat			j
Subnets:				
1				
	ОК	Cancel	Apply	Help

Gambar Jakarta Properties

#### LAMPIRAN M :

## Perpindahan Server pada ADBKS001 pada Site default ke Site Bekasi

1. Klik kanan pada server ADBKS001 dan pilih Move



# Gambar Server ADBKS001

2. Pilih *Site* yang dituju dan pilih **Ok** 



Gambar Pilih *Site* yang akan dituju

#### LAMPIRAN N :

#### Mengatur Waktu Replikasi

 pada menu start pilih start → administrative tools → Active Directory Sites and Services → Site Jakarta → Server → ADJKT001 → NTDS Setting

🕈 🕈 🖄 📷 🗶 🚍 C. 😓 📓 💷 🚨			1	< automatically generated> Properties	7
A Anti- Schwarz (2003) (appopries der) Den Den Den Den Den Den Den Den	Team III III ca.tonaticaly generat	Free Server	Fran Sta Bekasi	General (Josef) Social ( Rebus Class ) Terrano: Processory (Processory) Replications Replication	harge

Gambar NTDS Setting

2. Pilih Change Schedule, dilakukan interval 4 jam sekali.



Gambar Change Schedule

3. Pilih Ok.