# Upgrade Domain Controller

From Windows Server 2003 to Windows Server 2016



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# Spesifikasi & Requirement

- MikroTik RouterOS PUSAT.COM
   IP inet: 220.10.240.1 /24, IP lan: 192.168.56.1 /24, IP server: 192.168.1.1 /24, IP pptp: 172.1.1.1 /24
- MikroTik RouterOS CABANG.COM
   IP inet: 180.11.250.1 /24, IP lan: 192.168.166.1 /24, IP server: 192.168.2.1 /24, IP pptp: 172.1.1.2 /24
- Windows Server 2003 PUSAT.COM
   IP: 192.168.1.2, domain: pusat.com, Global Cataloge, Trusted Domain
   Windows Server 2008 R2 CABANG.COM
- Windows Server 2000 R2 CADARG.com
   IP: 192.168.2.2, domain: cabang.com, Global Cataloge, Trusted Domain, ADMT Password
   Windows Server 2016 PUSAT.COM
- IP: 192.168.1.3, join domain: pusat.com, Additional Domain Controller, Migrate FSMO, Net Framework 2.0, SQLexpress2005, ADMT
- Windows Server 2016 PUSAT.COM
   IP: 192.168.2.3, join domain: pusat.com, ReadOnly Domain Controller

### {1}\_ Setting IP Address MikroTik pusat.com

IP address internet: 220.10.240.1/24 , IP address lan: 192.168.56.88/24, IP address server:

192.168.1.1/24, Setting DNS: 192.168.1.2 (ip server pusat.com), 192.168.2.2 (ip server cabang.com).

### {2}\_ Setting PPTP Server MikroTik pusat.com

Enable pptp server, edit profile default-encryption, local address: 172.1.1.1, remote address: 172.1.1.2, dns server 192.168.1.2, create user: 1 password: 1, add pptp server binding, name: vpn, user: 1 {3} Setting Routing MikroTik pusat.com

Dst.address: 0.0.0.0/0 gateway: 220.10.240.10, Dst.address: 192.168.2.0/24 gateway: vpn, Dst.address: 192.168.166.0/24 gateway: vpn

### {4}\_ Setting Firewal MikroTik pusat.com

Allow port:

Tcp/udp: 53 (dns) , Tcp/udp: 88 (kerberos) , Tcp/udp: 389 (ldap) , Tcp: 135 (rpc endpoint) , Tcp: 139 (netbios) , Tcp: 445 (smb) , tcp: 464 (kerberos) , tcp: 636 (ldaps) , tcp: 3268 (ldap) , tcp: 3289 (ldaps).



### {5}\_ Setting IP Address MikroTik cabang.com

IP address internet: 180.11.250.1/24, IP address lan: 192.168.166.88/24, IP address server:

192.168.2.1/24, Setting DNS: 192.168.1.2 (ip server pusat.com), 192.168.2.2 (ip server cabang.com).

### {6}\_ Setting PPTP Client MikroTik cabang.com

Add pptp client, connect to: 220.10.240.1, create user: 1 password: 1,

### {7}\_ Setting Routing Static MikroTik cabang.com

Dst.address: 0.0.0.0/0 gateway: 180.11.250.11, Dst.address: 192.168.1.0/24 gateway: vpn, Dst.address: 192.168.56.0/24 gateway: vpn

#### {8}\_ Setting Firewal MikroTik cabang.com

Allow port:

Tcp/udp: 53 (dns) , Tcp/udp: 88 (kerberos) , Tcp/udp: 389 (ldap) , Tcp: 135 (rpc endpoint) , Tcp: 139 (netbios) , Tcp: 445 (smb) , tcp: 464 (kerberos) , tcp: 636 (ldaps) , tcp: 3268 (ldap) , tcp: 3289 (ldaps).



#### {9}\_ Install Active Directory Windows Server 2003 pusat.com

Setting ip address: 192.168.1.2, gateway: 192.168.1.1, primary dns: 192.168.1.2, secondary dns: 192.168.1.1. Computer name: ad2003. Install active directory dengan nama domain pusat.com {10}\_ Install Active Directory Windows Server 2008 cabang.com Setting ip address: 192.168.2.2, gateway: 192.168.2.1, primary dns: 192.168.1.2, secondary dns: 192.168.1.1. Computer name: ad2008. Install active directory dengan nama domain cabang.com

<u>N</u>ext>

Cancel

# {11}\_ Trusted Domain Windows Server 2003 pusat.com

Buka Active Directory Domain and Trust, Properties, Trusts



Cancel Apply

0K

New Trust.

Active Directory Domains and Trusts		<u>- 0 - </u>
Eile Action View Help		
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Active Directory Domains and Trusts	pusat.co	m
pusat.com	Name	Туре
pusat.com Properties		There are no items to show in this view.
General Trusts Managed By		New Trust Wizard
Domains trusted by this domain (outgoing tr	usts):	Trust Name You can create a trust by using a NetBIOS or DNS name.
Domains that trust this domain (incoming tru	usts]:	Type the name of the domain, forest, or realm for this trust. If you type the name of a forest, you must type a DNS name: supplier01-int Example NetBIDS name: supplier01-int Example DNS name: supplier01-internal.microsoft.com Name: Cabang.com
Domain Name Trust Type	Transiti	
New Trust		< <u>Back</u> <u>Next</u> > Cancel
OK	Ca	ncel Apply

# Trust name: cabang.com (domain windows server 2008)

# Trust Type: Forest trust

Active Directory Domains and Trusts		×
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Active Directory Domains and Trusts	pusat.com	
jusat.com	Name Type	
pusat.com Properties	There are no items to show in this view.	
General Trusts Managed By	New Trust Wizard	1
Domains trusted by this domain (outgoing trus Domain Name Trust Type	ets): Trust Type This domain is a forest root domain. If the specified domain qualifies, you can create a forest trust.	
Domains that trust this domain (incoming trust Domain Name Trust Type	Select the type of trust you want to create. C External trust An external trust is a nontransitive trust between a domain and another domain outlicide the forest. A nontransitive trust is bounded by the domains in the relationship. Transitiv Transitiv	
New Trust	< <u>B</u> ack <u>N</u> ext > Cancel	
ОК	Cancel Apply	_

# Direction of Trust: Two-way

Active Directory Domains and Trusts		
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Active Directory Domains and Trusts	pusat.cor	1
pusat.com	Name	Туре
pusat.com Properties		There are no items to show in this view.
General Trusts Managed By		New Trust Wizard
Domains trusted by this domain (outgoing Domain Name Trust Type	trusts): Transitiv	Direction of Trust You can create one-way or two-way trusts.
Dgmains that trust this domain (incoming to Domain Name Trust Type	usts): Transitiv	Select the direction for this trust.
New Trust		<u> </u>
OK	Car	cel Apply

Active Directory Domains and Trusts		
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Active Directory Domains and Trusts	pusat.com	n
	Name	Туре
pusat.com Properties		There are no items to show in this view.
General Trusts Managed By		New Trust Wizard
Domains trusted by this domain (outgoing tr Domain Name Trust Type	usts): Transitiv	Sides of Trust If you have appropriate permissions in both domains, you can create both sides of the trust relationship.
Domains that trust this domain (incoming tru	usts):	To begin using a trust, both sides of the trust relationship must be created. For example, if you create a one-way incoming trust in the local domain, a one-way outgoing trust must also be created in the specified domain before authentication traffic will begin flowing across the trust. Create the trust for the following: C This domain only This option creates the trust relationship in the local domain.
Domain Name Trust Type	<u>Transitiv</u>	Bgth this domain and the specified domain This option creates a trust relationship in the local domain and a corresponding trust relationship in the specified domain. You must have trust creation privileges in the specified domain.
New Trust		< <u>Back</u> Cancel
OK.	Car	

#### Sides of Trust: Both this domain and the specified domain,

User Name and Password: admincabang (user ad yang ada di cabang.com)

Active Directory Domains and Trusts		
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Carl Active Directory Domains and Trusts	pusat.com	n
	Name	Туре
pusat.com Properties		There are no items to show in this view.
General Trusts Managed By		New Trust Wizard
Domains trusted by this domain (outgoing tr Domain Name Trust Type	rusts): Transitiv	User Name and Password To create this trust relationship, you must have administrative privileges for the specified domain.
	,	Specified domain: cabang.com Type the user name and password of an account that has administrative privileges in the specified domain.
1		User name: 👩 admincabang 💌
Domains that trust this domain (incoming tru	usts):	Password
Domain Name Trust Type	Transitiv	
New Trust		< Back Next > Cancel
OK	Car	ncel Apply

Outgoing Trust Authentication Level-Level Forest: Forest-wide authentication



# Outgoing Trust Authentication Level-Specified Forest: Forest-wide authentication

Active Directory Domains and Trusts			
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Active Directory Domains and Trusts	pusat.com	I. Construction of the second s	
jusat.com	Name	Туре	
pusat.com Properties		There are no items t	o show in this view.
General Trusts Managed By		New Trust Wizard	×
Domains trusted by this domain (outgoing t Domain Name Trust Type	rusts): Transitiv	Outgoing Trust Authentication Level Users in the local forest can be authen specified forest or only those resources	H-Specified Forest ticated to use all of the resources in the that you specify.
Dgmains that trust this domain (incoming tr Domain Name Trust Type	usts): Transitivi	Select the scope of authentication for use C Ecrest-wide authentication Windows will automatically authentitive the cabang com forest. This option organization. C Selective authentication Windows will not automatically authentitive in the cabang com forest. After you domain and server that you want to option is preferred if the forests below	users from the local forest. icate users from the local forest for all resources in is preferred when both forests belong to the same intricate users from the local forest for any resources finish this wizard, grant individual access to each make available to users from the local forest. This ing to different organizations.
New Trust			< <u>B</u> ack <u>N</u> ext > Cancel
OK	Can	cel Apply	

# Trust Selection Complete

Stative Directory Domains and Trusts		×
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Active Directory Domains and Trusts	pusat.com	
pusat.com	Name	Туре
pusat.com Properties		? X There are no items to show in this view.
General Trusts Managed By		New Trust Wizard
Domains trusted by this domain (outgoing t Domain Name Trust Type	usts): Transitiv	Trust Selections Complete The New Trust Wizard is ready to create the trust.
Dgmains that trust this domain (incoming tr Domain Name Trust Type	usts):   Transitive	You have selected the following trust settings: This domain: pusat.com Specified domain: cabang.com Direction: Twowway: Users in the local domain can authenticate in the specified domain and users in the specified domain can authenticate in the local domain. Trust type: Forest trust To make changes to this trust, click Back. To create the trust, click Next.
New Trust		<u>Rack</u> Cancel
OK	Can	Sel Apply

# Trust Creation Complete

Active Directory Domains and Trusts		×
Eile Action View Help		
Active Directory Domains and Trusts	pusat.com	n
ing pusat.com	Name	Туре
pusat.com Properties		? X There are no items to show in this view.
General Trusts Managed By		New Trust Wizard
Domains trusted by this domain (outgoing Domain Name Trust Type	rusts): Transitiv	Trust Creation Complete The trust relationship was successfully created.
Dgmains that trust this domain (incoming tr Domain Name Trust Type	usts): Transitivi	Status of changes: Trust relationship created successfully. Specified domain cabang.com Direction: Two-way: Users in the local domain can authenticate in the specified domain and users in the specified domain can authenticate in the local domain. Trust type: Forest trust Dutgoing trust authentication level: Forest-wide authentication in local and specified forests.
New Trust		< <u>₽</u> eck: <u>N</u> ext> Cancel
ОК	Can	icel Apply



#### Confirm Outgoing Trust: Yes, confirm the outgoing trust

#### Confirm Incoming Trust: Yes, confirm the incoming trust



#### Completing the New Trust Wizard: Finish

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Active Directory Domains and Trusts	pusat.com		
pusat.com	Name	Туре	
pusat.com Properties		There are no items to show in this view.	
General Trusts Managed By	New	Trust Wizard	×
Domains trusted by this domain [outgoing tr Domain Name Trust Type Dgmains that trust this domain [incoming tru Domain Name Trust Type	usts): Transitiv: ists): Transitiv:	Completing the New Trust Wizard You have successfully completed the New Trust Wizard. Status of changes: The trust relationship was successfully created and Route these names to the specified forest: "cabang.com Route these names to the local forest: "pusat.com	<u>A</u>
New Trust		To close this wizard, click Finish.	el
OK	Cancel	<u>Apply</u>	

Akan terlihat, outgoing trust: cabang.com – forest – yes, incoming trust: cabang.com – forest – yes

Active Directory Domains and Trusts				-비즈
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Contractive Directory Domains and Trusts	pusat.com			
pusat.com	Name	Туре		
pusat.com Properties	<u>? ×</u>	There are no items to	show in this view.	
General Trusts Managed By				
Domains trusted by this domain (outgoing t	rusts):			
Domain Name Trust Type	Transitive Properties			
cabang.com Forest	Yes			
Domains that trust this domain (incoming tr	usts):			
Domain Name Trust Type	Transitive Properties			
cabang.com Forest	Yes			
New Trust				
OK	Cancel Apply			
ř				

### {12}\_ Join domain ke server pusat.com

Hostname: win7pusat , ip address: 192.168.56.254 (dhcp) , gateway: 192.168.56.1 , dns: 192.168.1.2 ; 192.168.2.2 , join domain: pusat.com , masukan username dan password user active directory yang ada pada server pusat.com (windows server 2003).



Tes login user active directory yang ada pada windows server 2008 (cabang.com) di komputer win7pusat User PUSAT\pusat1 dan CABANG\cabang1 berhasil login di komputer win7pusat



# {13}\_ Join domain ke server cabang.com

Hostname: win7cabang , ip address: 192.168.166.254 (dhcp) , gateway: 192.168.166.1 , dns: 192.168.2.2 ; 192.168.1.2 , join domain: cabang.com , masukan username dan password user active directory yang ada pada server cabang.com (windows server 2008).

System Properties		23				🃮 Local Area Conn	ection Status
Computer Name Hardwa	re Advanced System Protection Remote			Network Connection D	etails	<b>—</b> ×	
Windows uses	the following information to identify your computer			Network Connection De	ails:		
on the network				Property	Value	<b>^</b>	y: Internet
Computer description:			State:	Connection-specific DI	I		y: No Internet access
	For example: "Kitchen Computer" or "Mary's			Description Physical Address	Intel(R) PRO/1000 08-00-27-06-D8-76	MT Desktop Adap	Enabled
Full computer name:	win7cabang		ontrol Pa	DHCP Enabled	Yes		1.0 Gbps
Computer Name/Domain	Changer			IPv4 Address IPv4 Subpet Mask	192.168.166.254 255.255.255.0		
Computer Name/ Domain		or	me	Lease Obtained	Sunday, January 31	. 2021 2:20:06 PN ≡	
You can change the name computer. Changes might a	and the membership of this affect access to network resources.			Lease Expires	Monday, February (	01, 2021 12:30:07	
More information				IPv4 DHCP Server	192.168.166.88		
Computer name:	nge			IPv4 DNS Servers	192.168.166.88		Sent — Keceived
win7cabang				<u> </u>	192.168.2.2		
Full computer name:	Computer Nam	ie/Domair	n Chang	es 📉	~		74,237 279,152
win7cabang					n res fe80::4899:e37a:7b	81:1cfb%11	Dischla     Discusso
	More 🚺 Wel	come to t	he cabai	ng.com domain.	III	•	Diagnose
Member of							Close
Domain:						Close	
cabang.com					Onlii	ne support	J
windows Security							
Computer Name/	Domain Changes			Computer nan	ne, domain, and workg	roup settings	E
Enter the name and pas domain.	sword of an account with permission to join	the		Computer	name: win/	cabang	Change settings
				Full compi	iter name: win/	cabang	
				Workgrou	work work	KGROUP	
Caban	Igr			nongroup			
				Windows activ	ation		
Domai	n: cabang.com		hation	and 📉 15 day	s to activate. Activate \	Nindows now	
				Product ID	: 00426-292-0000007-8	5233 Change produ	JCT Key
	OK Car	ncei					

Tes login user active directory yang ada pada windows server 2003 (pusat.com) di komputer win7cabang User CABANG\cabang1 dan PUSAT\pusat1 berhasil login di komputer win7cabang



### {14}\_ Windows server 2016 join domain pusat.com

Hostname: ad2016, ip address: 192.168.1.5, gateway: 192.168.1.1, dns: 192.168.1.2 ; 192.168.1.1, join domain pusat.com.



#### [15] Install Active Directory Windows Server 2016

#### Server Manager, Add Roles and Features



#### Installation type: Role-based or feature-based installation

🚘 Server Manager			-		
📥 Add Roles and Features Wizard		- [		×	Hala
Add Roles and Features Wizard Select installation Before You Begin Installation Type Server Selection Server Roles Features Confirmation Results	<ul> <li>type</li> <li>Select the installation type. You can install roles and features on a running physical comachine, or on an offline virtual hard disk (VHD).</li> <li>Role-based or feature-based installation Configure a single server by adding roles, role services, and features.</li> <li>Remote Desktop Services installation Install required role services for Virtual Desktop Infrastructure (VDI) to create a vir or session-based desktop deployment.</li> </ul>	— [	D N SERVi pusat.cc	X ER minimi	e
	< Previous Next > Install	(	Cancel		

# Server Selection: Select a server from the server pool, ad2016.pusat.com

📥 Server Manager					- 0	
🚡 Add Roles and Features Wizard				- 0	×	Help
Select destination	server			DESTINATION S ad2016.pus	SERVER sat.com	
Before You Begin Installation Type Server Selection Server Roles Features	Select a server or a v Select a server fro Select a virtual he Server Pool Filter	irtual hard disk on whicl om the server pool ard disk	to install roles and features.			
Confirmation Results	Name ad2016.pusat.com	IP Address 192.168.1.5	Operating System Microsoft Windows Server 2	016 Standard		e
	1 Computer(s) found This page shows serv and that have been a newly-added servers	vers that are running Wi added by using the Add from which data collect	ndows Server 2012 or a newer re Servers command in Server Mar ion is still incomplete are not sh	lease of Windows So ager. Offline servers own.	erver, s and	
		< Pr	evious Next >	Install	ncel	

# Server Role: Active Directory Domain Services

elect server ro	les	DESTINATION SERVE ad2016.pusat.cor	R n
Before You Begin Installation Type Server Selection Server Roles Features Confirmation Results	Select one or more roles to it Roles Active Directory Cerl Active Directory Fed Active Directory Fed Active Directory Fig Active Directory Rig ChicP Server DHCP Serve	Add Roles and Features Wizard Add features that are required for Active Directory Domain Services? You cannot install Active Directory Domain Services unless the following role services or features are also installed. [Tools] Group Policy Management Remote Server Administration Tools A Role Administration Tools A Role Administration Tools A DD S and AD LDS Tools Active Directory module for Windows PowerShell A DD S Tools [Tools] Active Directory Administrative Center [Tools] AD DS Snap-Ins and Command-Line Tools ] Include management tools (if applicable)	× •



# Confirmation: Install

ᡖ Server Manager			-	-	$\Box$ $\times$
🚡 Add Roles and Features Wizard		-		×	Help
Confirm installation	on selections	DESTIN ad2	ATION SER 016.pusat.c	VER com	
Before You Begin Installation Type Server Selection Server Roles Features AD DS Confirmation Results	To install the following roles, role services, or features on selected server, click li  Restart the destination server automatically if required Optional features (such as administration tools) might be displayed on this pag been selected automatically. If you do not want to install these optional feature their check boxes.  Active Directory Domain Services Group Policy Management Remote Server Administration Tools Role Administration Tools AD DS and AD LDS Tools Active Directory Module for Windows PowerShell AD DS Tools Active Directory Administrative Center AD DS Snap-Ins and Command-Line Tools	nstall. e because s, click Prev	hey have rious to cl	ear	•
	< Previous Next > 1	nstall	Cance	:I	

Installation progress Before You Begin Installation Type Server Selection Server Roles Features AD DS Confirmation Results Results Results Results Results ResultS	ew installation progress Feature installation Configuration required. Installation succeeded on ad2016,pusat.com. Active Directory Domain Services Additional steps are required to make this machine a domain controller. Promote this server to a domain controller Group Policy Management	DESTINATION S ad2016.pus:	ERVER at.com	
Before You Begin Vie Installation Type Server Selection Server Roles Features AD DS Confirmation Results	ew installation progress Feature installation Configuration required. Installation succeeded on ad2016.pusat.com. Active Directory Domain Services Additional steps are required to make this machine a domain controller. Promote this server to a domain controller Group Palicy Management	I.	^	
Installation Type Server Selection Server Roles Features AD DS Confirmation Results	Feature installation     Configuration required. Installation succeeded on ad2016.pusat.com. Active Directory Domain Services     Additional steps are required to make this machine a domain controller.     Promote this server to a domain controller Group Palicy Management		^	
Server Selection Server Roles Features AD DS Confirmation Results R	Configuration required. Installation succeeded on ad2016.pusat.com. Active Directory Domain Services Additional steps are required to make this machine a domain controller. Promote this server to a domain controller Group Palicy Management		^	
Server Roles Features AD DS Confirmation Results	Configuration required. Installation succeeded on ad2016,pusat.com. Active Directory Domain Services Additional steps are required to make this machine a domain controller. Promote this server to a domain controller Group Palicy Management		^	
Features AD DS Confirmation Results R	Active Directory Domain Services Additional steps are required to make this machine a domain controller. Promote this server to a domain controller Group Policy Management		^	
AD DS Confirmation Results	Additional steps are required to make this machine a domain controller. Promote this server to a domain controller Group Policy Management			
Confirmation Confirmation Results R	Promote this server to a domain controller Group Policy Management			
Results R	Group Policy Management			
R	creat reney management			
	Remote Server Administration Tools			
	Kole Administration Tools			
	Active Directory module for Windows PowerShell			
	AD DS Tools			e
	Active Directory Administrative Center			
	AD DS Snap-Ins and Command-Line Tools		$\sim$	
	You can close this wizard without interrupting running tasks. View task pro-	ogress or open t	his	
	page again by clicking Notifications in the command bar, and then Task D	etails.		
Exp	port configuration settings			
	< Previous Next > CI	ose Car	ncel	

#### ᡖ Server Manager \_ $\Box \times$ - (Z) | Server Manager • Dashboard ľ Manage Tools Post-deployment Configura... WELC Dashl Configuration required for Active Directory Domain Services at AD2016 Local Server All Servers Promote this server to a domain controller server 🖬 AD DS Feature installation File and Storage Services ▷ Configuration required. Installation succeeded on ad2016.pusat.com. Add Roles and Features manage Task Details 5 Connect this server to cloud services Hide LEARN MORE ROLES AND SERVER GROUPS Roles: 2 | Server groups: 1 | Servers total: 1 File and Storage AD DS 1 1 Services Manageability Manageability

Deployment Configuration: Add a domain controller to an existing domain , domain: pusat.com ,

credentials: PUSAT\administrator (user administrator pusat.com)

📥 Active Directory Domain Service	es Configuration Wizard			-		×
Active Directory Domain Service Deployment Configuration Domain Controller Options Additional Options Paths Review Options Prerequisites Check Installation Results	es Configuration Wizard Figuration Select the deployment operation © Add a domain controller to an existin O Add a new domain to an existing for O Add a new forest Specify the domain information for this of Domain:	ng domain est operation pusat.com		TAR ad201	GET SER 6.pusat.	VER com
	Supply the credentials to perform this of PUSAT\administrator More about deployment configurations	peration	I	Ch	ange	
					<u> </u>	
	< Pro	evious Next >	Instal		Cancel	

# Domain Controller Options: Domain Name System (DNS) Server and Global Catalog (GC)

🚵 Server Manager			-	$\Box$ $\times$
🚡 Active Directory Domain Service	es Configuration Wizard		– 🗆 ×	w Help
Domain Controlle	er Options		TARGET SERVER ad2016.pusat.com	^
A domain controller runnin	ng Windows Server 2008 or later could not l	e located in this domain. To insta	all a r Show more X	
Deployment Configuration Domain Controller Options DNS Options Additional Options Paths Review Options Prerequisites Check Installation	Specify domain controller capabilities a Domain Name System (DNS) server Global Catalog (GC) Read only domain controller (RODC Site name: Type the Directory Services Restore Mon Password:	Default-First-Site-Name le (DSRM) password	×	
	Confirm password:	•••••		
				Hide
	More about domain controller options			
	< P1	evious Next >	Install Cancel	
-				
🔁 Server Manager				
Active Directory Domain Service	es Configuration Wizard		×	□ × w Help
<ul> <li>Server Manager</li> <li>Active Directory Domain Service</li> <li>DNS Options</li> </ul>	es Configuration Wizard		- C X TARGET SERVER ad2016.pusat.com	ew Help
<ul> <li>Server Manager</li> <li>Active Directory Domain Service</li> <li>DNS Options</li> <li>A delegation for this DNS :</li> </ul>	es Configuration Wizard erver cannot be created because the autho	ritative parent zone cannot be fo	TARGET SERVER ad2016.pusat.com	e X
Server Manager  Active Directory Domain Service  DNS Options  A delegation for this DNS =  Deployment Configuration  Domain Controller Options  DNS Options  Additional Options	es Configuration Wizard erver cannot be created because the author Specify DNS delegation options Update DNS delegation	ritative parent zone cannot be fo	- C X TARGET SERVER ad2016.pusat.com und Show more X	w Help
Server Manager  Active Directory Domain Service  DNS Options  A delegation for this DNS :  Deployment Configuration Domain Controller Options  DNS Options Additional Options Paths	es Configuration Wizard server cannot be created because the author Specify DNS delegation options Update DNS delegation	ritative parent zone cannot be fo	TARGET SERVER ad2016.pusat.com	w Help
<ul> <li>Server Manager</li> <li>Active Directory Domain Service</li> <li>DNS Options</li> <li>A delegation for this DNS :</li> <li>Deployment Configuration</li> <li>Domain Controller Options</li> <li>DNS Options</li> <li>Additional Options</li> <li>Paths</li> <li>Review Options</li> </ul>	es Configuration Wizard server cannot be created because the author Specify DNS delegation options Update DNS delegation	ritative parent zone cannot be fo	TARGET SERVER ad2016.pusat.com	w Help
<ul> <li>Server Manager</li> <li>Active Directory Domain Service</li> <li>DNS Options</li> <li>A delegation for this DNS 4</li> <li>Deployment Configuration</li> <li>Domain Controller Options</li> <li>DNS Options</li> <li>Additional Options</li> <li>Paths</li> <li>Review Options</li> <li>Prerequisites Check</li> </ul>	es Configuration Wizard server cannot be created because the author Specify DNS delegation options Update DNS delegation	ritative parent zone cannot be fo	TARGET SERVER ad2016.pusat.com	w Help
<ul> <li>Server Manager</li> <li>Active Directory Domain Service</li> <li>DNS Options</li> <li>A delegation for this DNS 1</li> <li>Deployment Configuration</li> <li>Domain Controller Options</li> <li>DNS Options</li> <li>Additional Options</li> <li>Paths</li> <li>Review Options</li> <li>Prerequisites Check</li> <li>Installation</li> </ul>	es Configuration Wizard erver cannot be created because the author Specify DNS delegation options Update DNS delegation	ritative parent zone cannot be fo	TARGET SERVER ad2016.pusat.com	W Help
Server Manager  Active Directory Domain Service  DNS Options  Adelegation for this DNS = Deployment Configuration Domain Controller Options  DNS Options  Additional Options Paths Review Options Prerequisites Check Installation Results	es Configuration Wizard erver cannot be created because the author Specify DNS delegation options Update DNS delegation	ritative parent zone cannot be fo	TARGET SERVER ad2016.pusat.com	w Help
<ul> <li>Server Manager</li> <li>Active Directory Domain Service</li> <li>DNS Options</li> <li>A delegation for this DNS = Deployment Configuration Domain Controller Options</li> <li>DNS Options</li> <li>Additional Options</li> <li>Paths</li> <li>Review Options</li> <li>Prerequisites Check Installation</li> <li>Results</li> </ul>	es Configuration Wizard server cannot be created because the author Specify DNS delegation options Update DNS delegation	ritative parent zone cannot be fo	TARGET SERVER ad2016.pusat.com	W Help
<ul> <li>Server Manager</li> <li>Active Directory Domain Service</li> <li>DNS Options</li> <li>A delegation for this DNS</li> <li>Deployment Configuration</li> <li>Domain Controller Options</li> <li>DNS Options</li> <li>DNS Options</li> <li>Paths</li> <li>Review Options</li> <li>Prerequisites Check</li> <li>Installation</li> <li>Results</li> </ul>	es Configuration Wizard  server cannot be created because the author Specify DNS delegation options Update DNS delegation  More about DNS delegation	ritative parent zone cannot be fo	X TARGET SERVER ad2016.pusat.com und Show more X	w Help

Additional Options: replicate from: ad2003.pusat.com

🔁 Server Manager						—	
🚡 Active Directory Domain Service	s Configuration Wizard			-		×	w Help
Additional Option	S			TAF ad20	GET SEF	COM	
Deployment Configuration Domain Controller Options DNS Options Additional Options	Specify Install From Media (IFM) Options Install from media Specify additional replication options						
Paths Preparation Options Review Options Prerequisites Check Installation	Replicate from:	ad2003.pusat.com				~	
Results							Hide
	More about additional options						
	< Pre	evious Next >	Instal		Cance	1	

### Upgrade Domain Controller From Server 2003 To Server 2016 | Ical RedHat

ᡖ Server Manager					_		$\times$
🚡 Active Directory Domain Service	es Configuration Wizard		-		×	w	Help
Paths			TAI ad20	RGET SEI 16.pusat	RVER .com		ŕ
Deployment Configuration Domain Controller Options DNS Options Additional Options Paths Preparation Options Review Options Prerequisites Check Installation Results	Specify the location of the AD D Database folder: Log files folder: SYSVOL folder: More about Active Directory pa	DS database, log files, and SYSVOL C:\Windows\NTDS C:\Windows\SYSVOL C:\Windows\SYSVOL				Hide	
		< Previous Next >	nstall	Cance	el		

# Preparetion Options: PUSAT\administrator (user administrator pusat.com)

Active Directory Domain Servic		
	es Configuration Wizard — 🗆 🗙	ew Help
Preparation Optic	DDS TARGET SERVER ad2016.pusat.com	
Deployment Configuration Domain Controller Options DNS Options Additional Options Paths Preparation Options Prerequisites Check Installation Results	To install this domain controller, the wizard needs to perform the following operation(s): <ul> <li>Forest and schema preparation</li> <li>Domain preparation</li> </ul> The current user credentials do not have sufficient permissions to run the preparation operation(s). Please specify a user that is a member of Enterprise Admins group and Schema Admins group. PUSAT\adminpusat (Current user) Change	Hide
	More about preparation options           < Previous	
Server Manager	es Configuration Wizard - X	
a Server Manager a Active Directory Domain Servic Review Options	es Configuration Wizard – – – × TARGET SERVER ad2016.pusat.com	ew Help
Server Manager  Active Directory Domain Servic  Review Options  Deployment Configuration Domain Controller Options DNS Options Additional Options Paths Preparation Options  Revew Options Prerequisites Check Installation Results	es Configuration Wizard – – – × TARGET SERVER ad2016.pusat.com Review your selections: Configure this server as an additional Active Directory domain controller for the domain "pusat.com". Site Name: Default-First-Site-Name Additional Options: Read-only domain controller: No Global catalog: Yes DNS Server: Yes Update DNS Delegation: No Source DC: ad2003.pusat.com These settings can be exported to a Windows PowerShell script to automate additional installations View script	•w Help

### Prerequisites Check: Install



Jika error seperti ini, harus ulangi Promote this server to a domain controller dan menggunakan user administrator domain pusat.com



# {16}\_ Active Directory Windows Server 2016

Windows server 2016 sudah menjadi additional domain controller pusat.com, user dan dns berhasil terreplikasi, ad2016 berhasil join domain ke ad2003.

Active Directory Users and Computers -		🛔 DNS Manager — 🗆 🗙
File Action View Help		File Action View Help
🗢 🔶 🙍 📷 🗎 🔛 🖻 📾 🔛 🖬 🖏 🐮 🍞 🚨 🍇		
Active Directory Users and Com Saved Queries Saved Queries Description Subservert Description Subservert Description Subservert Uservert Uservert Uservert Uservert Uservert Uservert Description Uservert Uservert Uservert Uservert Uservert Uservert Description Uservert Description Uservert Uservert Uservert Uservert Description Uservert Uservert Description Des		∑DNS       Name       Type       Data                  ✓              ☐
i⊇ UserPusat i™ Users		<ul> <li>interpretation</li> <li>interpretatint</li> <li>interpretatint</li> <li>interpretatint</li></ul>
Rill         Active Directory Sites and Services         −           File         Action         View         Help		Conditional Forwarders         Imad2003         Host (A)         192.168.1.2         1/31/2021 &:00:00 F           Imad2016         Host (A)         192.168.1.5         static           Imad2016         Host (A)         192.168.1.3         static
Image: Service Servi	e Description	WIN7PUSAT Host (A) 192.168.56.254 1/30/2021 9:00:00 F

Pastikan ad2016 sudah join ke server ad2003

K Active Directory Sites and Service	25				_	
🙀 Eile Action Yiew Window He	lp				L	ð×
	1					
Active Directory Sites and Services [a	Servers 2 objects					
	Name	Domain	Bridgehead	Туре	Description	
🖃 🖷 Default-First-Site-Name	AD2003	pusat.com		Server		
	📑 AD2016	pusat.com		Server		
i±… 🧰 Subnets						
	<u> </u>					

# {17}\_ Create Zone di server 2016

#### DNS Manager: AD2016, New Zone



Zone Type: Primary zone , Store the zone in Active Directory



#### Active Directory Zone Replication: To all DNS servers running on domain controller in this domain:





#### Forward or Reverse Lookup Zone: Reserver lookup zone



#### Reverse Lookup Zone Name: IPv4 Reverse Lookup Zone



### Network ID: 192.168.1 (network server pusat.com)

🍰 DNS Manager	_		$\times$
File Action View Help			
Image: Second	of the zone. For exa	ne. Enter th Imple, Jid create	×

#### Dynamic Update: Allow only secure dynamic update (recommended for active directory)



 $\times$ 

### {18}\_ Cek FSMO di server ad2016

PowerShell: netdom query fsmo (fsmo masih di ad2003)

🔀 Windows PowerShell	
PS C:\Users\adminpusat> neto Schema master Domain naming master PDC RID pool manager Infrastructure master The command completed succes	dom query fsmo ad2003.pusat.com ad2003.pusat.com ad2003.pusat.com ad2003.pusat.com ad2003.pusat.com sfullv.
PS C:\Users\adminpusat>	

### {19}\_ Replikasi Konfigurasi dari ad2003 Ke ad2016

Active Directory Sites and Services, Sites, Default-First-Site-Name, Servers, AD2003, NTDS Settings:

#### Replicate configuration from the selected DC. Real Active Directory Sites and Services \_ File Action View Help 🗢 🔿 📶 🗙 🖾 🍳 😹 🛛 🗖 Real Active Directory Sites and Services [ad2016.pusat.com] Name From Server From Site Туре Description 📋 Sites 🚚 <automatically gener... AD2016 Default-First-Si... Connection Inter-Site Transports Subnets ✓ ■ Default-First-Site-Name Servers NTDS Settings ✓ ☐ AD2016 Replicate configuration from the selected DC NTDS Settings Replicate configuration to the selected DC New Active Directory Domain Services Connection.. Find... New All Tasks View Delete Refresh Export List.. Properties Replicates configuration information Help Real Active Directory Sites and Services File Action View Help 🗢 🔿 📶 🗶 🗐 🍳 🗟 🗊 🏼 🕰 Active Directory Sites and Services [ad2016.pusat.com] Name From Server From Site Туре Description 🗸 📋 Sites 👯 < automatically gener... AD2016 Default-First-Si... Connection Inter-Site Transports 📔 Subnets 🗸 📋 Servers ✓ ☐ AD2003 × Replicate Now NTDS Settings AD2016 NTDS Settings Active Directory Domain Services has replicated the connections. OK

<

# $\{20\}\_$ Migrate RID, PDC, Infrastructure from AD2003 to AD2016

Active Directory Users and Computers, pusat.com: Operations Masters...

File Action View Help			
🗢 🔶 🙋 📰 🗎 🗎 🖾 📥 🛛 📷	🐍 🗽 🛅 🍸 🧕 🗽		
Active Directory Users and Computers [ad2016 Saved Queries Builtin Computer Find Computer Find Change Domain Controll Change Domain Controll Users Users Users View All Tasks View Refresh Export List Properties Help	inpusat.com       Name       Type       Description         iiii Builtin       builti       Ecomputers       Cont       Default cont         iiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiii		Activate
			Go to Sett
Change KID to ad2016.p	usal.com		
Active Directory Users and Computers	Operations Masters ? ×	_	
File Action View Help	RID PDC Infrastructure		
	The executions mater manages the allocation of PID code to other Domain		
S	ad2003.pusat.com To transfer the operations master role to the following Change Change.		
<ul> <li>☑ UserPusat</li> <li>☑ Users</li> </ul>	ad2016.pusat.com		Activato
i UserPusat ™ Users	ad2016.pusat.com		Activate
Image: Serie Pusat         Image: Users         Image: Serie Pusat         Image:	ad2016 pusat.com         Operations Masters         RID       PDC         Infrastructure         The operations master manages the allocation of RID pools to other Domain Controllers. Only one server in the domain performs this role.         Operations master:         ad2016 pusat.com         To transfer the operations master role to the following computer, click Change.         ad2016 pusat.com         ad2016 pusat.com         ad2016 pusat.com         Are you sure you want to transfer the operations master role?         Yes		Activate Go to Sett

File       Action       View       Help         Image: Solution of the precision of the port of the po	⊐ ×
Image: Source of the pression o	
Image: Saved Queries       The operations master manages the allocation of RID pools to other Domain Controllers.         Image: Saved Queries       Image: Saved Queries         Image: Saved Queries       Operations master manages the allocation of RID pools to other Domain Controllers.         Image: Saved Queries       Operations master manages the allocation of RID pools to other Domain Controllers.         Image: Saved Queries       Operations master manages the allocation of RID pools to other Domain Controllers.         Image: Saved Queries       Operations master:         Image: Saved Queries       Image: Saved Queries         Image: Saved Queries       To transfer the operations master role to the following Computer, click Change.         Image: Saved Queries       Image: Saved Queries         Image: Saved Queries       Active Directory Domain Services	
The operations master role was successfully transferred.	
Close Cancel	Activate

# Change PDC to ad2016.pusat.com

Active Directory Users and Computers		X
	Operations Masters ? ×	
File Action View Help		
🗢 🏟 🙍 📅 📋 🖾 🚱 📝 🧰	RID PDC Infrastructure	
<ul> <li>Active Directory Users and Computers [ad2016</li> <li>Saved Queries</li> <li>Builtin</li> <li>Computers</li> <li>Domain Controllers</li> <li>ForeignSecurityPrincipals</li> <li>Managed Service Accounts</li> <li>UserPusat</li> <li>Users</li> </ul>	The operations master emulates the functions of a primary Domain Controller (PDC) for pre-Windows 2000 clients. Only one server in the domain performs this role. Operations master: ad2016.pusat.com To transfer the operations master role to the following Change ad2016.pusat.com	Activate
		Activate
		Go to Sett

# Change Infrastructure to ad2016.pusat.com

Active Directory Users and Computers		- 🗆 X
File Action View Help	Operations Masters ? X	
	RID PDC Infrastructure	
<ul> <li>Active Directory Users and Computers [ad201</li> <li>Saved Queries</li> <li>iii pusat.com</li> </ul>	The infrastructure master ensures consistency of objects for inter-domain operations. Only one server in the domain performs this role.	
> 🚞 Builtin	Operations master:	
> Computers	ad2016.pusat.com	
Domain Controllers     Domain Controllers     PoreignSecurityPrincipals     Managed Service Accounts	To transfer the operations master role to the following Change Change	
📓 UserPusat	ad2016.pusat.com	
🛗 Users		
	Correct Correct	
	Close Cancel	Activate

### {21}\_ Cek FSMO di server ad2016

PowerShell: netdom query fsmo

(PDC, RID pool manager, Infrastructure master sudah di ad2016.pusat.com)

🔀 Windows PowerShell

PS_C:\Users\adminpusat>	netdom query fsmo
Schema master	ad2003.pusat.com
Domain naming master	ad2003.pusat.com
PDC	ad2003.pusat.com
RID pool manager	ad2003.pusat.com
Infrastructure master	ad2003.pusat.com
The command completed su	accessfully.
PS C:\Users\adminpusat>	netdom query fsmo
Schema master	ad2003.pusat.com
Domain naming master	ad2003.pusat.com
PDC	ad2016.pusat.com
RID pool manager	ad2016.pusat.com
Infrastructure master	ad2016.pusat.com
The command completed su	ccessfully.
The command compressed of	
PS C:\Users\adminnusats	

### {22}\_ Migrate Domain Naming Master from AD2003 to AD2016

Active Directory Domain and Trusts [ad2016.pusat.com], Operatios Master...

😹 Active Directory Domair	is and Trusts			– 🗆 X
File Action View Hel	p			
🗢 🏟 📊 🔄 🙆 📑	?			
🚮 Active Directory Domain	s and Trusts [ ad2016.pusat.com ]	Name	Type	Actions
👘 pusat.com	Change Forest		mainDNS	Active Directory Domains and Trusts [ ad2 A
	Change Active Directory Do	main Controller		More Actions
	Operations Master			More Actions
	Raise Forest Functional Leve	el		
	View		>	
	Refresh			
	Export List			
	Properties			
	ropenes			
	Help			
Transfer the operations maste Change Doma Active Directory Domain File Action View Hell Change Point Active Directory Domain Active Directory Domain pusat.com	er role to a different computer ain Naming to a( is and Trusts o is and Trusts [ ad2016.pusat.com ]	d2016.pus	Sat.com Type domainDNS	Actions Actions Actions More Actions
Operations Master		×		
The domain naming operat unique. Only one Active Di performs this role.	ions master ensures that domain names rectory Domain Controller in the enterpri	s are ise		
Domain naming operations	master:			
ad2003.pusat.com				
To transfer the domain nan following computer, click C	ning master role to the Cha	ange		
ad2016.pusat.com				
		Close		

pusat.com	🗓 pusat.com	domainDNS	Active Directory Domains and Tru More Actions	sts [ ad2
			More Actions	
Operations Master	×			
The domain naming operations master ensures that domain names a unique. Only one Active Directory Domain Controller in the enterprise performs this role.	Act	tive Directory Domains	and Trusts ×	<
Domain naming operations master:				
ad2016.pusat.com			master was successfully transferred.	
To transfer the domain naming master role to the ollowing computer, click Change.	ge			
ad2016.pusat.com			OK	

# {23}\_ Cek FSMO di server ad2016

### PowerShell: netdom query fsmo

(PDC, RID pool manager, Infrastructure master, Domain Naming master sudah di ad2016.pusat.com)

🔀 Windows PowerShell

PS C:\Users\adminpusat>	netdom query fsmo
Schema master	ad2003.pusat.com
Domain naming master	ad2003.pusat.com
PDC	ad2003.pusat.com
RID pool manager	ad2003.pusat.com
Infrastructure master	ad2003.pusat.com
The command completed su	ccessfully.
PS C:\Users\adminpusat>	netdom query fsmo
Schema master	ad2003.pusat.com
Domain naming master	ad2003.pusat.com
PDC	ad2016.pusat.com
RID pool manager	ad2016.pusat.com
Infrastructure master	ad2016.pusat.com
The command completed su	ccessfully.
PS C:\Users\adminpusat>	netdom query fsmo
Schema master	ad2003.pusat.com
Domain naming master	ad2016.pusat.com
PDC	ad2016.pusat.com
RID pool manager	ad2016.pusat.com
Infrastructure master	ad2016.pusat.com
The command completed su	ccessfully.
PS C:\Users\adminpusat>	-

# {24}\_ Migrate Schema Master from AD2003 to AD2016

Run (administrative privileges): regsvr32 schmmgmt.dll

🖅 Run	×	RegSvr32	Х
0pen:	Type the name of a program, folder, document, or Internet resource, and Windows will open it for you. regsvr32 schmmgmt.dll v This task will be created with administrative privileges.	DIIRegisterServer in schmmgmt.dll succeeded.	
	OK Cancel <u>B</u> rowse	ОК	]

# Run: mmc (Microsoft Management Console)

🖅 Run		×
٨	Type the name of a program, folder, document, or Internet resource, and Windows will open it for you.	
<u>O</u> pen:	mmc $\checkmark$ This task will be created with administrative privileges.	
	OK Cancel <u>B</u> rowse	]

# Microsoft Management Console, File, Add/Remove Snap-in...

ᡖ Co	nsole1 - [Co	onsole F	loot]			- 🗆 ×
🚟 File	Action	View	Favorites	Window	Help	_ <i>8</i> ×
\$	New			Ctrl+N		
	Open			Ctrl+O	Actions	
	Save			Ctrl+S	There are no items to show in this view.	<b></b>
	Save As				More Actions	+
	Add/Rem	ove Sna	p-in	Ctrl+M		
	Options					
	Recent Fil	e				
	Exit					
Fnables	vou to add	snap-ir	s to or rem	ye them fro	m the span-in console	

# Add: Active Directory Schema , OK

👼 Console1 - [Co	nsole Root1				-	
ᡖ File Action	Add or Remove Snap-ins				×	- 8 ×
← → □ Console Root	You can select snap-ins for this console from extensible snap-ins, you can configure which	n those availa h extensions	able on you are enable	r computer and configure the selecte d.	d set of snap-ins. For	
	Available snap-ins:			Selected snap-ins:		
	Snap-in	Ve ^		Console Root	Edit Extensions	-
	Active Directory Domains and Trusts	Mi Mi		Active Directory Schema	Remove	•
	Active Directory Sites and Services	Mi Mi Mi			Move Up	
	ADSI Edit Authorization Manager Certificates	Mi A Mi Mi	Add >		Move Down	
	Computer Management Device Manager Disk Management	Mi Mi Mi			Advanced	
	Description: View and edit the Active Directory Schema					
				[	OK Cancel	

# Active Directory Schema [ad2003.pusat.com] : Change Active Directory Domain Controller...

🖀 Console1 - [Console Root\Active Di	irectory Schema [ad2003.pusat.com]]	– 🗆 X
🚟 File Action View Favorites	Window Help	_ & ×
🗢 🔿 🙍 🖬 🧔 🕞		
<ul> <li>Console Root</li> <li>Console Root</li> <li>Casses</li> <li>Attributes</li> </ul>	Name         Change Active Directory Domain Controller         Connect to Schema Operations Master         Operations Master         Permissions         Reload the Schema         View         New Window from Here         New Taskpad View         Refresh         Export List	Actions Active Directory Schema [ad2003.pusat.com] More Actions
Select a different Active Directory Domai	n Controller	

# The Domain Controller or AD LDC Instance: ad2016.pusat.com

# Status unavailable karena ipv6 disable

👼 Console1 - [Console Roo	t\Active Directory Schema [ad2003.pusat.co	m]]				_	$\Box$ $\times$
🔚 File Action View F	worites Window Help						- 8 ×
	Change Directory Server				>	<	
	Control Direction Control						
Console Root	Current Directory Server:						
Active Directory Scher	ad2003.pusat.com					iema [ad2003	.pusat.com] 🔺
> Classes	Change to:						•
Attributes							
	This Develop Contail Controller						
	This Domain Controller or AD LDS instance	De					
	Look in this domain: pusat.com				~		
	Name	Site	DC Type	DC Version	Status		
	<type a="" directory="" h<="" name[:port]="" server="" td=""><td>nere&gt;</td><td></td><td></td><td></td><td></td><td></td></type>	nere>					
	ad2003.pusat.com	Default-First-Site-Name	GC	W2K3	Online		
	ad2016.pusat.com	Default-First-Site-Name	GC	Windows	Unavailable		
			OK	Cancel	Help		

# Active Directory Schema [ad2003.pusat.com] : Operations Master...

🚡 Console1 - [Console	e Root\Active Directory Schema [ad2016.pusat.com]]		- 🗆 ×
🚟 File Action View	v Favorites Window Help		_ & ×
🗢 🔿 🖄 📆 🧔	🖹 🛛 🖬		
Console Root	Name		Actions
✓ Active Directory:	Schema [ad2016.pusat.com]		Active Directory Schema [ad2016.pusat.com] 🔺
Attributes	Change Active Directory Domain Controller		More Actions
	Connect to Schema Operations Master		
	Dermissions		
	Reload the Schema		
		-	
	View >		
	New Window from Here	-	
	New Taskpad View		
	Refresh		
	Export List		
	Help		
Change the Operations N	Master		

0				_
Console1 - [Console Root\Active Directory Sche	ma [ad2016.pusat.co	m]]		— D
ile Action View Favorites Window H	Help			- 6
🔿 📶 🖸 🗟 🖬				
Console Root	Name		Actions	
Active Directory Schema [ad2016.pusat.com]	Classes		Active Dir	ectory Schema [ad2016.pusat.com]
Attributes	🔛 Attributes		More	Actions
Change Schema Master	×			
The exhamp master manages modifications to the	a ashama Only and			
server in the enterprise performs this role.	e schema. Only one			
Current schema master (online):				
ad2003.pusat.com				
To transfor the ophome master role to the targets	d			
schema FSMO holder below, click Change.	change			
ad2016.pusat.com				
Close	Help			
Console1 - [Console Root'Active Directory Sche	ma [ad2016.pusat.co	m]]		
Console1 - [Console Root'Active Directory Sche ille Action View Favorites Window F	ma [ad2016.pusat.co	m]]		
Console1 - [Console Root\Active Directory Sche ile Action View Favorites Window F →   20 1 1 0 1 →   2 10	ema [ad2016.pusat.co	m]]		:
Console 1 - [Console Root'Active Directory Sche ile Action View Favorites Window F 2017 1 2 1 2 1 2 1 2 1 2 1 2 1 2 2 2 2 2 2	ma [ad2016.pusat.co	m]]	Actions	
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Console 1 - [Console Root'Active Directory Sche ile Action View Favorites Window F 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1	Ima [ad2016.pusat.co felp Classes Attributes	m]]	Actions Active Din More	ectory Schema [ad2016.pusat.com] Actions
Console1 - [Console Root\Active Directory Sche ile Action View Favorites Window F 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015	Ima [ad2016.pusat.co Help Name Classes Attributes	m]]	Actions Active Din More	ctory Schema [ad2016.pusat.com]
Console 1 - [Console Root\Active Directory Sche ile Action View Favorites Window F ) 2 10 10 10 10 10 10 10 Console Root Active Directory Schema [ad2016.pusat.com] Change Schema Master	Ima [ad2016.pusat.co Help Classes Attributes	m]]	Actions Active Din More	=
Console1 - [Console Root/Active Directory Sche ile Action View Favorites Window F 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Ima [ad2016.pusat.co Help Classes Attributes	m]]	Actions Active Dim More	= = = = = = = = = = = = = = = = = = =
Console1 - [Console Root\Active Directory Sche ile Action View Favorites Window F 2010 2010 2010 2010 Console Root Active Directory Schema [ad2016.pusat.com] Console Root Active Directory Schema [ad2016.pusat.com] Chasses Change Schema Master The schema master manages modifications to the server in the enterprise performs this role. Constructions match (change Schema Haster)	I Name Classes Attributes	m]] Active Directory Schema	Actions Active Dim More	= = = = = = = = = = = = = = = = = = =
Console 1 - [Console Root'Active Directory Sche ile Action View Favorites Window H Active Directory Schema [ad2016.pusat.com] Active Directory Schema [ad2016.pusat.com] Active Directory Schema [ad2016.pusat.com] Classes Active Directory Schema Master Change Schema Master The schema mater manages modifications to the server in the enterprise performs this role. Current schema mater (online): Interf schema mater (online):	International and a sector of the sector of	m]] Active Directory Schema	Actions Active Dim More	= = = = = = = = = = = = = = = = = = =
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# Change Schema master to ad2016.pusat.com

# {25}\_ Cek FSMO di server ad2016

# PowerShell: netdom query fsmo

(PDC, RID pool manager, Infrastructure master, Domain Naming master, Schema master sudah di ad2016.pusat.com) fsmo sudah berhasil di migrate ke ad2016 (windows server 2016)

🔀 Windows PowerShell	
P5 C:\Users\adminpusat> neto	om query fsmo
Schema master	ad2003.pusat.com
Domain naming master	ad2003.pusat.com
PDC	ad2003.pusat.com
RID pool manager	ad2003.pusat.com
Infrastructure master	ad2003.pusat.com
The command completed succes	sfully.
PS C:\Users\adminpusat> neto	lom query fsmo
Schema master	ad2003.pusat.com
Domain naming master	ad2003.pusat.com
PDC	ad2016.pusat.com
RID pool manager	ad2016.pusat.com
Infrastructure master	ad2016.pusat.com
The command completed succes	sfully.
PS C:\Users\adminpusat> netc	lom query fsmo
Schema master	ad2003.pusat.com
Domain naming master	ad2016.pusat.com
PDC	ad2016.pusat.com
RID pool manager	ad2016.pusat.com
Infrastructure master	ad2016.pusat.com
The command completed succes	sfully.
PS C:\Users\adminpusat> neto	lom query fsmo
Schema master	ad2016.pusat.com
Domain naming master	ad2016.pusat.com
PDC	ad2016.pusat.com
RID pool manager	ad2016.pusat.com
Infrastructure master	ad2016.pusat.com
The command completed succes	sfully.
PS C:\Users\adminpusat> _	

# {26}\_ Demote Role Active Directory dari server 2003

Active Directory Sites and Services: AD2003, NTDS Settings, Properties

K Active Directory Sites and Services							<u>- 🗆 ×</u>
File Action View Window Help						]	- 8 ×
Active Directory Sites and Services [ad2003.pusat.co	m] Server:	Servers 2 objects					
E Sites	Name		Domain	Bridgehead	Туре	Description	
Default-First-Site-Name	🛛 🗐 AD2	2003	pusat.com		Server		
	🛛 📑 AD2	2016	pusat.com		Server		
AD2003							
AD2016 New Active Directo	ory Connectio	n					
Inter-Site Transports							
⊡⊡ Subnets All Tasks		- <b>i</b>					
New <u>W</u> indow from	Here						
Delete							
Refresh							
Properties							
Help							
Opens property sheet for the current selection.							

# Uncheck Global Catalog

Active Directory Sites and Services	NTDS Settings Properties
File Action View Window Help	General Connections Object Security
← →       •	NTDS Settings         Description:         Query Policy:         DNS Alias:         E96C7CE1-25F5-4395-9E7F-08DE32749704_msdcs.p         Global Catalog         The amount of time it will take to publish the Global Catalog varies depending on your replication topology.
	UK Cancel <u>Apply</u>

Hapus Role Active Directory

Run	<u>? ×</u>
-	Type the name of a program, folder, document, or Internet resource, and Windows will open it for you.
Open:	dcpromo
	OK Cancel <u>B</u> rowse

Active Directory Installation	Wizard	X
	Welcome to the Active Directory Installation Wizard	
SA .	This computer is already an Active Directory domain controller. You can use this wizard to remove Active Directory services on this domain controller.	
	If you remove Active Directory, this computer will become a standalone or domain member server.	
	To continue, click Next.	
	< <u>B</u> ack <u>Next&gt;</u> Cancel	
Pastikan <mark>Uncheck</mark>		
Active Directory Installation	Wizard	×
Remove Active Directory Indicate whether this is the	e last domain controller in the domain.	Ş

Removing Active Directory converts this domain controller to a member server. Or, if this is the last domain controller in the domain, it will become a standalone server.

This server is the last domain controller in the domain

After you remove Active Directory from the last domain controller in the domain, the domain no longer exists, which means that: Computers that belong to this domain cannot log onto the domain or access any domain services.

All user accounts in this domain will be deleted.

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>B</u>ack <u>N</u>ext > Cancel

Masukan password administrator windows server 2003 yang baru

Active Directory Installation Wizard		×
Administrator Password Specify an Administrator password	d.	<b>X</b>
Type the password to be assigned	d to the server Administrator account.	
New Administrator Password:	•••••	
Confirm password:	••••••	
	< <u>B</u> ack <u>N</u> ext >	Cancel

Active Direc	tory Installation Wizard			×
Summary Revie	y ew and confirm the options you selected	±.		<b>A</b>
<u>Y</u> ou c	shose to:			
Remo	ove Active Directory from this computer.			<u> </u>
Wher pusat	n the process is complete, this server w .com	ill be a member (	of the domain	T
To ch	ange an option, click Back. To begin t	he operation, cli	ick Next.	
		< <u>B</u> ack	<u>N</u> ext >	Cancel
Active Direc	tory Installation Wizard			×
Summary Revie	uu and confirm the options you colooted			$\Diamond$
	Active Directory Installation Wiz	ard		
<u>Y</u> ou c Rema	The wizard is configuring Active Dire considerably longer, depending on th	ctory. This proce le options you h	ess can take sev ave selected.	veral minutes or
Whei pusal	Active Directory successfully transfer DC=ForestDnsZones,DC=pusat,DC=	red the remainin com to domain of	g data in directo controller \\ad20	ry partition 16.pusat.com.
Tocł				
	[	< <u>B</u> ack	<u>N</u> ext >	Cancel

Jika Error, ganti dns server windows server 2003 dengan ip server 2016

	_ Local Area Connection Status
Active Directory Installation Wizard	Support Support
Summary Review and confirm the options was calculated	Cal Area Connection Properties
Active Directory Installation Wizard	ral Authentication Advanced
You c Remain The wizard is configuring Active Directory. This process can take several minutes or considerably longer, depending on the options you have selected.	: Protocol (TCP/IP) Properties
When Active Directory Installation Wizard	[4]
The operation failed because:	an get IP settings assigned automatically if your network supports apability. Otherwise, you need to ask your network administrator
Failed to configure the service NETLOGON as requested	e appropriate IP settings.
"The wait operation timed out."	Obtain an IP address automatically
OK	address: 192.168.1.2
To ch	bnet mask: 255 , 255 , 255 , 0
	Fault gateway: 192 . 168 . 1 . 1
< <u>B</u> ack <u>N</u> ext> Cancel	Ottain DNS server address automatically
	Use the following DNS server addresses:
	Preferred DNS server: 127 . 0 . 0 . 1
	Alternate DNS server: 192.168.1.5
	Advanced
	OK Cancel

Proses demote selesai dan harus restart server. Kemudian matikan windows server 2003

Active Directory Installation	Wizard	×		
	Completing the Active Direct Installation Wizard	ory		
	Active Directory was removed from this computer.	*		
	To close this wizard, click Finish.		Active Directory Installation Wizard Windows must be restarted before the changes made by the Active Directory Installation wizard take effect.	×
	< <u>B</u> ack <b>Finish</b>	Cancel		

# {27} Ganti IP Windows Server 2016

#### Ganti menjadi 192.168.1.2



# [28] Install .NET Framework 2.0 Windows Server 2016

Insert dvd installer windows server 2016, bukan cmd (administrator)





#### Install sqlexpress 2005 (require .NET Framework 2.0)

Microsoft SQL Server 2005 Setup	×
The Microsoft .Net Framework 2.0 is not installed. Please install before running setup.	
ОК	

	- op price	admt32 + sqlex2005		- L X
File Home Share	View Ma	anage		~ 3
$\leftrightarrow \rightarrow \uparrow \uparrow$ . This	is PC > Downloads	> admt32 + sqlex2005	✓ Ö Searc	h admt32 + sqlex2005 🔎
📌 Quick access	Name	Date modified Type		Size
This PC	📧 admtsetup32	1/18/2021 2:01 PM Applicatio	n Installes Daalaas	4,209 KB
Desktop	SQLEXPR	1/18/2021 2:02 PW Windows	nstaller Package	56,049 KB
Documents		Open		
🖶 Downloads		Run as administrator		
👌 Music		Pin to Start		
Pictures		Scan with Windows Defender		
Videos		Share with	>	
Local Disk (C:)		Pin to taskbar		
Programs (\\VBoxS\		Restore previous versions		
A Network		Send to	>	
- Herron		Cut		
		Сору		
		Create shortcut		
		Rename		
		Properties		_
3 items 1 item selected 5	64.7 MB			
💹 Microsoft SQL	Server 2005 S	etup		×
End User Lice	nse Aareeme	ent		
	, groom			
MICROSO	FT SOFTWA	ARE LICENSE TERMS		<u>^</u>
MICROSO	FT SQL SE	ERVER 2005 EXPRESS	EDITION	SERVICE
PACK 3				
These 1	icense te	erms are an agreem	ent betw	een
Microso	ft Corpor	ration (or based o	n where	you
live, o	ne of its	s affiliates) and 	you. Pl	ease
read th	em. Iney which inc	7 apply to the sol cludes the media o	tware na n which	med vou
receive	d it, if	any. The terms a	lso appl	y to any
Microso	ft			,,
	1-4			
★ up	dates,			
* su	pplements	s,		
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* su * In * su ▼ laccept	pplements ternet-ba pport ser the licensing te	s, ased services, and rvices ems and conditions		~
× su × In × su ✓ Laccept	pplements ternet-ba pport ser the licensing te	s, ased services, and rvices erms and conditions	Next >	✓ Cancel
× su × In × su ✓ Laccept	pplements ternet-ba pport ser the licensing te	s, ased services, and rvices erms and conditions	Next >	V Cancel
* su     * In     * su     F laccept  Print  Microsoft SQL	pplements ternet-ba pport ser the licensing te	s, ased services, and rvices erms and conditions etup	Next >	Cancel X
* su     * In     * su     F laccept  Print  Microsoft SQL	pplements ternet-ba pport ser the licensing te Server 2005 S	s, ased services, and rvices erms and conditions etup	Next >	Cancel X
* su * In * su ✓ Laccept Print Microsoft SQL Installing Pren	pplements ternet-ba pport ser the licensing te Server 2005 S equisites	s, ased services, and rvices erms and conditions etup	Next >	Cancel X
* su     * su     * In     * su     F laccept  Print Microsoft SQL Installing Pren Installs softw Server	pplements ternet-ba pport ser the licensing te Server 2005 S <b>equisites</b> are component	s, ased services, and rvices erms and conditions etup ts required prior to installing SC	Next >	Cancel X
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# {29}\_ Install Microsoft SQLexpress 2005


🖟 Microsoft SQL Server 2005 Expres	s Edition Setup		×			
Registration Information The following information will perso	onalize your installat	iion.				
The Name field must be filled in pri	or to proceeding. Th	ne Company field i	s optional.			
N <u>a</u> me: Windows User						
C <u>o</u> mpany:						
Hide advanced configuration o	ptions					
Help	< Back	Next >	Cancel			
Hicrosoft SQL Server 2005 Expres	s Edition Setup		X			
Feature Selection Select the program features you v	vant installed.					
Click an icon in the following list to chan	ge how a feature is	installed.				
Database Services     Client Components     X      Connectivity Co     X      Software Devel	Database Services         Client Components         Connectivity Components         Software Development Kit					
	Th ha Se M	nis feature require ard drive. It has 2 elected. The subfe B on your hard dri	s 126 MB on your of 3 subfeatures atures require 100 ve.			
Installation path c: \Program Files (x86) \Microsoft S	QL Server\	В	rowse			
		Dis	sk Cost			
Help	< Back	Next >	Cancel			
Wicrosoft SOL Server 2005 Expres	s Edition Setun		×			
Authentication Mode						
The authentication mode specifies connecting to SQL Server.	the security used v	vhen				
The authentication mode specifies connecting to SQL Server. Select the authentication mode to	the security used v use for this installat	vhen tion.				
The authentication mode specifies connecting to SQL Server. Select the authentication mode to Windows Authentication Mode	the security used v	vhen				
The authentication mode specifies connecting to SQL Server. Select the authentication mode to	the security used v use for this installar tication and SQL Ser	vhen tion. ver Authentication	1)			
The authentication mode specifies connecting to SQL Server. Select the authentication mode to Windows Authentication Mode Mixed Mode (Windows Authen Specify the sa logon password bel	the security used v use for this installat tication and SQL Ser low:	vhen tion. ver Authentication	n)			
The authentication mode specifies connecting to SQL Server. Select the authentication mode to	the security used v use for this installat tication and SQL Ser	vhen tion. ver Authentication	ı)			
The authentication mode specifies connecting to SQL Server. Select the authentication mode to	the security used v use for this installat tication and SQL Ser ow:	vhen tion. ver Authentication	1)			
The authentication mode specifies connecting to SQL Server. Select the authentication mode to Windows Authentication Mode Mixed Mode (Windows Authentication Mode Mixed Mode (Windows Authentication Mode Specify the sa logon password bell Enter password:	the security used v use for this installat tication and SQL Ser low:	vhen tion. ver Authentication	n)			
The authentication mode specifies connecting to SQL Server. Select the authentication mode to Windows Authentication Mode Mixed Mode (Windows Authentication Mode Mixed Mode (Windows Authentication Mode Specify the sa logon password bell Enter password:	the security used v use for this installat tication and SQL Ser low:	vhen tion. ver Authentication	n)			

🖟 Microsoft SQI	Server 2005 Express	Edition Setup		×
Configuration Configure use	n Options er and administrator a	ccounts		
This option er instance of th	er Instances nables users without a ne SQL Server Express	dministrator perm Database Engine	issions to run a sep	arate
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<ul> <li>may also receive a copy of thi country or write: Microsoft Sa 98052-6399.</li> <li>MICROSOFT SOFTWARE LIC MICROSOFT ACTIVE DIRECT These license terms are an a where you live, one of its aff software named above, which terms also apply to any Micro * updates,</li> <li>* supplements,</li> <li>I Agree</li> </ul>	s EULA by cont les Information ENSE TERMS 'ORY MIGRATI( greement betw filiates) and you th includes the i sooft	acting the Micross Center/One Micr DN TOOL v3.2 een Microsoft Co J. Please read the media on which yu I Do Not Agree	oft subsidiary servi osoft Way/Redmon rporation (or based m. They apply to t bu received it, if an	l on he y. The
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#### {31}\_ Cek domain functional level

#### Cek Domain functional level server 2008

Active Directory Users and Computers, cabang.com: Raise domain functional level (pastikan sama)



#### Cek Domain functional level server 2016

Active Directory Users and Computers, pusat.com: Raise domain functional level (pastikan sama)



# {32}\_ Cek Forest functional level Cek Forest functional level server 2008

Active Directory Domain and Trusts: Raise forest functional level



#### Cek Forest functional level server 2016

Active Directory Domain and Trusts: Raise forest functional level



# {33}\_ Cek objects (user, group, komputer) di 2008 yang akan di migrate ke 2016



#### {34} Create Organizational Unit di server 2016

#### Active Directory Users and Computers: pusat.com, New, Organizational Unit: UserCabang

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#### **{35}\_** Forwarder Domain server 2008

DNS Manager: AD2008, cabang.com, Forwarders: 192.168.1.2 (ip server 2016)



# {36}\_ Forwarder Domain Server 2016

# DNS Manager: AD2016, pusat.com, Forwarders: 192.168.2.2 (ip server 2008)

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> Caller _sites					
> 🚞 _udp					
> DomainDnsZones > PorestDnsZones					
✓ ■ Reverse Lookup Zones					
Trust Points					
> 📋 Conditional Forwarders					
	<				>

#### {37}\_ Add pusat\administrator on administrator group Server 2008

Active Directory Users and Computers: cabang.com, Builtin, Administrators, Properties, Members:

Administrator pusat.com/Users (pusat\administrator)



#### [38] Create ADMT Password Windows Server 2016

PowerShell: admt key /option:create /sourcedomain:cabang.com /keyfile:KeyAD.pes



#### [39] Install ADMT Password Windows Server 2008

🙀 ADMT Password Migration	DLL Setup	_ 🗆 🗙
Ð	Welcome to the ADMT Password Migration DLL Setup Wizard	
	The Setup Wizard will install ADMT Password Migra on your computer. Click Next to continue or Cance the Setup Wizard.	tion DLL I to exit
	Back Next	Cancel

🖶 ADMT Password Migration DLL Setup	_ 🗆 X
End-User License Agreement Please read the following license agreement carefully	Ð
PLEASE NOTE: Microsoft Corporation (or based on where you live, on its affiliates) licenses this supplement to you. You may use it with each validly licensed copy of Microsoft Windows Server software (for which supplement is applicable) (the "software"). You may not use the supplement if you do not have a license for the software. The license terms for the software apply to your use of this supplement. Microsoft provides support services for the supplement as described at www.support.microsoft.com/common/international.aspx.	e of this
☑ I accept the terms in the License Agreement	
Print Back Next C	ancel

Pindahkan file admt password KeyAD.pes dari server 2016 ke server 2008

F 11 61		
Select the encryption file for this sou	irce domain	
The ADMT Password Migration DLL ins for this source domain. The key must the following file.	stallation requires a password encrypton k be located on a local drive. The install will	ey that is valid attempt to use
To use a different file, click the Brows	e button, and select another file.	
You can choose not to install ADMT Pa wizard.	assword Migration DLL by clicking Cancel to	o exit this
Encryption file	sWeyAD.pes Browse	
	Back Next	Cancel
		Current
ADMT Password Migration DLL Se	etup	_ 🗆 🗡
Ready to install ADMT Passwo	ord Migration DLL	Ð
Ready to install ADMT Passwo Click Install to begin the installation. installation settings. Click Cancel to	ord Migration DLL . Click Back to review or change any of yo exit the wizard.	ur
Ready to install ADMT Passwo Click Install to begin the installation. installation settings. Click Cancel to	ord Migration DLL . Click Back to review or change any of yo exit the wizard.	ď
Ready to install ADMT Passwo Click Install to begin the installation. installation settings. Click Cancel to	ord Migration DLL . Click Back to review or change any of yo exit the wizard.	ur
Ready to install ADMT Passwo Click Install to begin the installation. installation settings. Click Cancel to	ord Migration DLL . Click Back to review or change any of yo exit the wizard.	ur
Ready to install ADMT Passwo	ord Migration DLL . Click Back to review or change any of yo exit the wizard.	ur
Ready to install ADMT Passwo	ord Migration DLL . Click Back to review or change any of yo exit the wizard.	ur

# Run the service as: Local System account (administrator)

ADMT Password Migration DL	L Setup	_	
ADMT Password Migration DLL		<u> </u>	
The Password Export Server Servic specified user account.	e can be run under Local System account or a	3	37
Run the service as:			
Local System account			
C Log on as:			
Password:			
Confirm password:			
	OK Cance		

### Install ADMT Password selesai, restart server 2008

ADMT Password Migration	DLL Setup	_ 🗆 🗡
S	Completed the ADMT Password Migration DLL Setup Wizard	
	Click the Finish button to exit the Setup Wizard.	
	Back Finish	Cancel
🔂 ADMT Password M	ligration DLL Setup	X
You must re changes ma effect. Click manually res	start your system for the configuration de to ADMT Password Migration DLL to Yes to restart now or No if you plan to start later.	i take
Yes	No	

#### Services.msc, Password Export Server Service, Start Service.

Q Services	
File Action View Help	
🗢 🔿 🔲 🖻 🍳 🔂 🚺 🕨 🔳 🕪	
Services (Local) Name    KtmRm for Distributed Transaction Coord	Password Export Server Service Properties (Local Computer)
Link-Layer Topology Discovery Mapper	General Log On Recovery Dependencies
Microsoft .NET Framework NGEN v2.0.50	
Microsoft .NET Framework NGEN v2.0.50	Service name: PesSvc
Microsoft .NET Framework NGEN v4.0.30	Display name: Password Export Server Service
Microsoft .NET Framework NGEN v4.0.30	Descured France Conversion
Microsoft Fibre Channel Platform Registra	Description: Password Export Server Service
Microsoft iSCSI Initiator Service	<u> </u>
Microsoft Software Shadow Copy Provide	Path to executable:
Multimedia Class Scheduler	C:\Windows\system32\PwMigSvc.exe
Net Disc Listener Adapter	
Net Tro Listener Adapter	Startup type: Automatic (Delayed Start)
Net Top Port Sharing Service	Help me configure service startup options
Netlogon	
Network Access Protection Agent	Service status: Started
Network Connections	
🔅 Network List Service	Start Stop Pause Resume
🔍 Network Location Awareness	
Retwork Store Interface Service	from here.
Ressword Export Server Service	
Serformance Counter DLL Host	Start parameters:
Rerformance Logs & Alerts	
Plug and Play	
PnP-X IP Bus Enumerator	OK Cancel Apply
Portable Device Enumerator Service	
Power	Manages p Started Automatic Local System
Extended Standard	

**40**] Setting ADMT (Active Directory Migration Tool) Windows Server 2016





#### Active Directory Migration Tool, User Account Migration Wizard

#### Domain Selection:

Source Domain: cabang.com

Source Domain Controller: \\ad2008.cabang.com

#### Target Domain: pusat.com

#### Target Domain Controller: \\ad2016.pusat.com

🚟 migrator - [Active Directory Migration T	ool]		- 🗆 X
File Action View Window Help			A X
		User Account Migration Wizard	×
Active Directory Migration Tool	Name 🥪 Repoi	Domain Selection Between which domains do you want to migrate users?	
		Type the names of the source and target domains and doma from the lists.	ain controllers or select them
		Domain: cabang.com	•
		Domain controller: \\ad2008.cabang.com	-
		Target	
		Domain controller: \\ad2016.pusat.com	
		< Back Next >	Cancel Help

🚟 migrator - [Active Directory Migration ]	[ool]	_	
File Action View Window Help	)	User Account Migration Wizard	×
Active Directory Migration Tool	Name	User Selection Option Select the method which is to be used to select the users. How are the users to be selected? © Select users from domain © Read objects from an include file	
		< Back Next > Cancel	Help

# User Selection Option: Select users from domain

User Selection: Add... user actiove directory yang akan dimigrasi ke server 2016

🖀 migrator - [Active Directory Migration ]	Tool]	- 🗆 X
🚟 File Action View Window Help		
🗢 🔿 🔲 🤕 🔂 🔢		User Account Migration Wizard X
Active Directory Migration Tool	Name ��Repoi	User Selection To add source user accounts to migrate to Active Directory, click Add.
		User accounts:           Name         SAM name         Description           Admin Cabang         admincabang           User Cabang 1         cabang 1           User Cabang 2         cabang 2
		Add Remove
		< Back Next > Cancel Help
🔚 migrator - [Active Directory Migration	Tool]	- 🗆 X
🚟 File Action View Window Help		
		User Account Migration Wizard X
Active Directory Migration Tool	Name	Select Users X
Reports	Repor	Select this object type:
Select Users		X Object Types
Select this object type:		
Users		Object Types
From this location:		
cabang.com		Locations Check Names
Common Queries		
Name: Starts with ~		Columns OK Cancel
Description: Starts with $\checkmark$		Find Now
Disabled accounts		Stop
Days since last logon: 🗸 🗸		Next > Cancel Help
Search results:		OK Cancel
Name E-Mail Address		In Folder
Admin Cabang admincabang@caban	ig.com	cabang.com/Us
Administrator		cabang.com/Us
User Cabang 1 cabang1@cabang.co	m	cabang.com/Us
User Cabang 2 cabang2@cabang.co	m	cabang.com/Us

# Upgrade Domain Controller From Server 2003 To Server 2016 | Ical RedHat

🚟 migrator - [Active Directory Migration	n Tool]		- 🗆	$\times$
File Action View Window He	elp	User Account Migration Wizard		×
Active Directory Migration Tool	Name	Select Users	×	$\sim$
Reports	w Repor	Select this object type: Users From this location: cabang.com Enter the object names to select (examples): Admin Cabang (admincabang@cabang.com): User Cabang 1@cabang.com): User Cabang 2 (cabang2@cabang.com) Advanced OK	Object Types Locations Check Names Cancel	
		< Back Next > C	ancel Help	

# Organizational Unit Selection, Target OU: UserCabang (pusat.com)

migrator - [Active Directory Migration 1	Tool]	—	$\Box$ $\times$
File Action View Window Help	)	Here & conjust Minister Minister	
		user Account Migration Wizard	
Active Directory Migration Tool	Name ��Repor	Organizational Unit Selection The organizational unit (OU) you enter is used as the target.	
Browse for Container		X Please enter the distinguished name of the target OU	
Select a target container.			
⊡-∰i pusat ⊕-⊡ Buitin ⊕-⊡ Computers			wse
B-2 Domain Controllers B-2 Foreign SecurityPrincipals B-2 Managed Service Accounts -2 UserCabang B-2 UserS Users			
			liek
ОК	Cance	al Cancer	нер
ч			
1			
🖷 migrator - [Active Directory Migration ]	Tool]	-	
migrator - [Active Directory Migration	Tool]	User Account Migration Wizard	
<ul> <li>migrator - [Active Directory Migration</li> <li>File Action View Window Help</li> <li>File Active Directory Migration Tool</li> <li>Reports</li> </ul>	Name	User Account Migration Wizard Organizational Unit Selection The organizational unit (OU) you enter is used as the target.	×
<ul> <li>migrator - [Active Directory Migration</li> <li>File Action View Window Help</li> <li>File Active Directory Migration Tool</li> <li>Active Directory Migration Tool</li> <li>Reports</li> </ul>	Name	User Account Migration Wizard Organizational Unit Selection The organizational unit (OU) you enter is used as the target. Please enter the distinguished name of the target OU.	×
<ul> <li>migrator - [Active Directory Migration</li> <li>File Action View Window Help</li> <li>File Active Directory Migration Tool</li> <li>Reports</li> </ul>	Name	User Account Migration Wizard Organizational Unit Selection The organizational unit (OU) you enter is used as the target. Please enter the distinguished name of the target OU. Target OU: [LDAP://ousat.com/OU=UserCabano.DC=pusat.DC=com Bro	× ×
<ul> <li>migrator - [Active Directory Migration</li> <li>File Action View Window Help</li> <li>File Active Directory Migration Tool</li> <li>Active Directory Migration Tool</li> <li>Reports</li> </ul>	Name	User Account Migration Wizard Organizational Unit Selection The organizational unit (OU) you enter is used as the target. Please enter the distinguished name of the target OU. Target OU: LDAP://pusat.com/OU=UserCabang.DC=pusat.DC=com Bro	×
<ul> <li>migrator - [Active Directory Migration</li> <li>File Action View Window Help</li> <li>File Active Directory Migration Tool</li> <li>Active Directory Migration Tool</li> <li>Reports</li> </ul>	Name	User Account Migration Wizard Organizational Unit Selection The organizational unit (OU) you enter is used as the target. Please enter the distinguished name of the target OU. Target OU: LDAP://pusat.com/OU=UserCabang.DC=pusat.DC=com Bro	× ×
<ul> <li>migrator - [Active Directory Migration</li> <li>File Action View Window Help</li> <li>File Active Directory Migration Tool</li> <li>Active Directory Migration Tool</li> <li>Reports</li> </ul>	Tool] A Name Report	User Account Migration Wizard Organizational Unit Selection The organizational unit (OU) you enter is used as the target. Please enter the distinguished name of the target OU. Target OU: IDAP://pusat.com/OU=UserCabang.DC=pusat.DC=com Browned Browned	× ×
<ul> <li>migrator - [Active Directory Migration</li> <li>File Action View Window Help</li> <li>File Active Directory Migration Tool</li> <li>Active Directory Migration Tool</li> <li>Reports</li> </ul>	Tool] A Name Report	User Account Migration Wizard Organizational Unit Selection The organizational unit (OU) you enter is used as the target. Please enter the distinguished name of the target OU. Target OU: IDAP://pusat.com/OU=UserCabang.DC=pusat.DC=com Browned	× ×
<ul> <li>migrator - [Active Directory Migration</li> <li>File Action View Window Help</li> <li>File Active Directory Migration Tool</li> <li>Active Directory Migration Tool</li> <li>Reports</li> </ul>	Tool]	User Account Migration Wizard  Organizational Unit Selection The organizational unit (OU) you enter is used as the target.  Please enter the distinguished name of the target OU. Target OU: [LDAP://pusat.com/OU=UserCabang.DC=pusat.DC=com Browned Composition of the target of	x x wse

#### Password Options: Migrate passwords, password migration source DC: ad2008.cabang.com

👼 migrator - [Active Directory Migra	tion Tool]	- 🗆 X
File Action View Window	Help	
🗢 🔿 📅 🧔 🔂 📅		User Account Migration Wizard X
Active Directory Migration Tool	Name Repo	Password Options Migrating a password or selecting a complex password provide better network security.
		What type of password do you want to use?
		C Generate complex passwords
		Migrate passwords
		✓ Do not update passwords for existing users
		Password migration source DC:
		ad2008.cabang.com
		< Back Next > Cancel Help

# Target Account State: Enable target accounts, Migrate user SIDs to target domain

Image: Second Secon	
Image: Constraint of the second se	æ ×
Active Directory Migration Tool       Name       Account Transition Options         > @ Reports       You can close accounts, set account expiration dates, and migrate security IDs (SIDs).	×
	ฦ
To select how you would like to handle migrating accounts, click the desired options below.	
Target Account State:	
C Enable target accounts	
C Target same as source	
Source Account Disabling Options:	
Disable source accounts	
Days until source accounts expires:	
30 End of: 04-Mar-21	
I✓ Migrate user SIDs to target domain	
< Back Next > Cancel Help	

# Would you like to enable auditing: Yes

🚟 migrator - [Active Directory Migration	Fool]	_	
🚟 File Action View Window Help	)		E X
		User Account Migration Wizard	^
<ul> <li>Active Directory Migration Tool</li> <li>Seports</li> </ul>	Name ��Rep	Account Transition Options You can close accounts, set account expiration dates, and migrate security IDs (SIDs).	3
		To select how you would like to handle migrating accounts, click the desired options below.	
		<ul> <li>Enable target accounts</li> </ul>	
		C Disable target accounts	_
	E	rror	×
		Auditing is currently not enabled on the source domain. Would you like to enable auditing? If not, SID migration will be disabled.	
		Yes No Cancel	p



#### Would you like to create local group CABANG\$\$\$: Yes

#### User Account: administrator, Domain: CABANG

🚟 migrator - [Active Directory Migration	Tool]	- 🗆 X
File Action View Window Hel	<b>b</b>	
		User Account Migration Wizard X
Active Directory Migration Tool	Name ��Rep	User Account To add SID history, you must supply a user account with the proper permissions.
		Type the user name, password, and domain of an account with administrative rights on the source domain.
		Joser name: administrator
		Password:
		Domain: CABANG
		< Back Next > Cancel Help

User Options: Update user rights, Migrate associated user groups, Fix user group memberships (jika user masuk kedalam group tertentu, maka group tersebut akan ikut ter-migrasi)

🚟 migrator - [Active Directory Migration ]	Tool]	-	
File Action View Window Help ← → □ Q → Q → Q → Q Active Directory Migration Tool > ≪ Reports	Name	User Account Migration Wizard User Options You can migrate user groups, profiles, and security settings.	×
	- ∞ nep	Please select the following options to customize your migration task.         Translate roaming profiles         Update user rights         Migrate associated user groups         Update previously migrated objects         Fix users' group memberships	Help

🖀 migrator - [Active Directory Migration Tool]	-	$\Box$ $\times$
🚟 File Action View Window Help		E ×
	User Account Migration Wizard	×
Active Directory Migration Tool     Name       > @ Reports     @ R	e Object Property Exclusion You can exclude certain properties from being migrated on a per object basis.	
	Exclude specific object properties from migration	
	Included Properties: Excluded Properties:	
	accountExpires accountNameHistory adSPolicyName adminDuscription adminDscription adminDsplayName assistant businessCategory c	,
	< Back Next > Cancel	Help

#### Conflict Management: Do not migrate source object if a conflict is detected in the target domain



#### Migrasi User selesai dan berhasil.



# Terdapat 3 user dan 1 group yang sudah dimigrasi dari server 2008 ke server 2016.

🜇 migrator - [Active Directory Migration Tool]						_	$\Box$ $\times$
File Action View Window Help ← ↔ □□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□	User A	Migration Prog	ress			>	× ×
Active Directory Migration Tool Name		Migration Progre	ess				
> 🧼 Reports 🛛 🔍 Rep		Status:	Completed				
		Operation:					on
							^
		Unan	Examined	Copied		Errors	
		Groups	1	3		0	
		Computers	0	0		0	
		MSAs	0	0		0	
				View Log	Stop	Close	p

### Cek Log

Migration00001 - Notepad
Elle Edit Format View Help
[Settings Section] Task: User Migration (1) AMM Groups de
User: PUSAT\administrator
Computer: ad2016.pusat.com (AD2016)
Domain: pusat.com (PUSAT)
US: WINDOWS SErVER 2016 Standard 10-0 (14395)
Name: cabang.com (CABANG)
DC: ad2008.cabang.com (AD2008) OS: Windows Server 2008 R2 Standard 6.1 (7601) Service Pack 1
UU: Taract Domain
Name: Pusat.com (PUSAT)
DC: ad2016.pusat.com (AD2016)
05: Windows Server 2016 Standard 10.0 (14393)
UC LUARY//pusat.com/UC#USerCabang.pdc=pusat.pdc=Cum Totra-Forest: No
Password Option: Copy passwords, only for new objects = No
Password Export Server: ad2008.cabang.com
Migrate Security Identifiers: Yes
update Algness res
Fix group membership: Yes
Conflict Option: Ignore
Source Disable Option: Leave source account
Target Disable Option: Enable target account
Migrate groups: Yes
Update Migrated Objects: No
Migrate service accounts: Yes
[Object Migration Section]
2021-02-02 05:55:33 Starting Account Replicator.
2021-02-02 05:55:36 WRN1:7372 ADMT does not process BUILTIN accounts or change the membership of BUILTIN groups (Administrators, etc.). Skipping LDAP://cabang.com/CHE-Domain Admins, CH-Users, DC-cabang, DC-com
2021-09-09 SFS5136 WMR17972 AUM does not process BUILTIN accounts or change the memorshing BUILTIN groups (Administrators, etc.). Skipping LDAP://cloang.com/UH=Domain.Controllers.OHelpers.OHel
2021-02-02 05:55:36 WRN1:7372 ADMT does not process BUILTIN accounts or change the membership of BUILTIN groups (Administrators, etc.). Skipping LDAP://cabang.com/CN=Administrators,CN=Builtin,DC=cabang,DC=com
2021-02-02 05:55:37 CN=Admin Cabang - Created
2021-02-02 05:55:37 SID for CABANGSadmincabang added to the SID History of PUSATSadmincabang
2021-02-02 05:55:38 Wink-XMIAII Caboling - ressword copied: 2021-02-02 05:55:38 Wink:IRXP Disabiled the "password never expires" account option for account 'CN=Admin Cabang'.
2021-02-02 05:55:39 CN=User Cabang 1 - Created
2021-02-02 05:55:39 SID for CABANG\cabang1 added to the SID History of PUSAT\cabang1
2021-02-02 05:55:39  CN=User Cabang 1 - Password Copied. 2021-02-02 05:55:39  CN=User Cabang 1 - Password Copied.
221-22-22 05:55:39 MML109 Clabate (c) passion new express account option for account ci-ose clabate 1.
2021-02-02 05:55:39 SID for CABANG\cabang2 added to the SID History of PUSAT\cabang2
2021-02-02 05:55:40 CN=User Cabang 2 - Password Copied.
2021-02-02 09:05:140 WNRI/0/4 Ulsabled the password never expires account option for account CN=user Cabang 2 . 2021-02-02 05:5540 (NaferounicAbang - Created
2021-02-02 05:55:40 STD for CABANG\GroupCabang added to the SID History of PUSAT\GroupCabang
2021-02-02 05:55:40 Processing group membership for CN=GroupCabang.
2021-02-02 05:55:40 Cannot add WIN/CABANG\$ to CIM-GroupCabang, because WIN/CABANG\$ has not been migrated to the target domain.
221-22-20 05:55:40 LDAP://d2216.pust.com/CH=Mmark Cabang.0C=pust.LDC=com added.
2021-02-02 05:55:40 LDAP://ad2016.pusat.com/CN=User Cabang 1,OU=UserCabang,DC=pusat,DC=com added.
2021-02-02 05:55:60 HRNI17372 ADNT does not process BUILTIN accounts or change the membership of BUILTIN groups (Administrators, etc.). Skipping LDAP://cabang.com/CH-Domain Admins,CH-Users,DC=com
2021-02-02 95:55:40 WMRL15/37 AUMI does not process BULLIN accounts or change the memoership of BULLIN groups (Administrators, etc.). skipping LUMP1/(abang.com/Li=Schema Administruteses), bu=com 2021-02-02 95:55:40 WMRL15/37 AUMI does not process BULLIN accounts or change the memoership of BULLIN groups (Administrators, etc.). Skipping LUMP1/(abang.com/Li=Schema Administrutes)
221-02-02 05:55:40 MRW17372 ADMT does not process BULITM accounts or change the membership of BULITM proups (Administrators, etc.). Skipping LDAP://domms.com//H-Bummariteriores.gov//H
2021-02-02 05:55:40 Updated user rights for CN=Admin Cabang
2021-02-02 05:55:40 Updated user rights for CN-User Cabang 1
2021-202-20 05:55:40 Updated user intervises for Children and Children
2021-02-02 05:55:41 Operation completed.

# {41}\_ Reporting ADMT

#### Active Directory Migration Tool: Reporting Wizard

	, c	·		0				
ᡖ migrator - [	Active Directory Migration	Tool]				-		×
\overline File Action	n View Window He	lp					- 6	×
🔶 🔿 🗖	o 📑 🚺 🖬							
Active Direct	tory Migration Tool	Name						
Reports	User Account Migra	ation Wizard						
	Group Account Mig	gration Wizard						
	Computer Migratio	n Wizard						
	Security Translation	Wizard						
	Reporting Wizard							
	Service Account Mi	gration Wizard						
	Managed Service A	ccount Migration Wizar	d					
	Retry Task Wizard							
	Password Migration	n Wizard						
	Customer Feedback	c Options						
	View		>					
	New Window from	Here						
	Refresh							
	Export List							
	Usla							
	нер							
							_	
migrator - [/	Active Directory Migration	lool]				_		×
🚡 File Action	View Window He	lp					- 6	r ×
	a 📑 🛛 🖬	Reporting V	Vizard				×	
Active Direct	ory Migration Tool	Name		Welcome to	the Rer	ortina		
Reports		🕪 Rep	$\sim$	Wizard	o the Kep	orung		
				This without helps you		containing the		
				information you need	to migrate betw	een Active Direct	tory	
				domains in a differen same forest (intrafore	t forest (interfore st migration).	st migration) or th	e	
				To continue, click N	ext			
				<b>y</b>				
			~	< Back N	ext >	Cancel	Help	
				< Back N	lext >	Cancel	Help	

#### Domain Selection:

Source Domain: cabang.com

Source Domain Controller: \\ad2008.cabang.com

# Target Domain: pusat.com

# Target Domain Controller: \\ad2016.pusat.com

🔚 migrator - [Active Directory Migration T	ool]		_	
🚟 File Action View Window Help				_ 8 ×
🗢 🄿 📊 🙆 🖻		Reporting Wizard		× 🗌
Active Directory Migration Tool Reports	Name 🥪 Rep	Domain Selection For what domains do you want to create reports?		£
		Type the names of the source and target domains and domain control from the lists.	lers or select	them
		Domain: cabang.com Domain controller: \\ad2008.cabang.com		•
		Target Domain: pusat.com		•
		Domain controller: \\ad2016.pusat.com		-
		< Back Next > Can	xel	Help

# Location file report: C:\Windows\ADMT\Reports

👼 migrator - [Active Directory Migration	Tool]		_		$\times$
🜇 File Action View Window Help	)			-	8
🗢 🌳 🔣 🔯		Reporting Wizard			×
Active Directory Migration Tool Reports	Name ��Rep	Folder Selection Where do you want to store the reports?			2
		Enter a location to store the reports.			
		Location: c:\Windows\ADMT\Reports	Browse		
		< Back Next > Cancel		Help	

#### Report Selection: Migrated accounts

💀 migrator - [Active Directory Migration To	bl]	- 🗆 ×
File Action View Window Help		_ 8 ×
Image: Active Directory Migration Tool       Image: Reports	Reporting Wizard Jame Report Selection Prep You can select more than one report type.	×
	Report types:           Name         Date/Time Last Created           Migrated accounts         Not created           Migrated accounts         Not created           Expired accounts         Not created           Account references         Not created           Account name conflicts         Not created	>
	< Back Next > Cance	el Help
File Action View Window Help	0]	×
	Reporting Wizard	×
Active Directory Migration Tool	lame Rep Completing the Report You have successfully completed the Rep	ing Wizard
	You chose to create the following reports: Report Generation The Migrated Users, Groups and Manage	d Service Accoi
	C To close this wizard and create the reports	> s, click Finish.
	< Back Finish Canc	el Help

#### Reports: Migrated Accounts

🔚 migrator - [Active Directo	ry Migration Tool\Reports\Migra	ted User, Group and Managed Service Accounts]		- 🗆 ×	
🚟 File Action View Wi	indow Help			- 8	×
🦛 🔿 🙍 📰 🚺					
Active Directory N Reports Migrated L Migrated C		Active Directory Migration Tool Reporting		,	^
		Migrated User, Group and Managed Service Accounts			
Se	ource Target Account omain Domain Type	Source Path		Target Patl	
caba	ang.com pusat.com user	LDAP://cabang.com/CN=Admin L Cabang,OU=UserCabang,DC=cabang,DC=com C	DAP://pusat.com/CN=Ac Cabang,OU=UserCabang,	dmin DC=pusat,DC=cc	
caba	ang.com pusat.com user	LDAP://cabang.com/CN=User Cabang L 1,OU=UserCabang,DC=cabang,DC=com 1	DAP://pusat.com/CN=Us ,OU=UserCabang,DC=p	ser Cabang usat,DC=com	
caba	ang.com pusat.com user	LDAP://cabang.com/CN=User Cabang L 2,OU=UserCabang,DC=cobang,DC=com 2	DAP://pusat.com/CN=Us ,OU=UserCabang,DC=p	ser Cabang usat,DC=com	
caba	ang.com pusat.com group	$LDAP://cabang.com/CN=GroupCabang.OU=UserCabang.DC=cabang.DC=com\ Logence and the set of the set o$	DAP://pusat.com/CN=Gr	roupCabang,OU=1	
					~
< > <				>	

# {42}\_ Cek User Active Directory Windows Server 2016

# Active Directory Users and Computers: pusat.com, UserCabang

#### (User AD dari server 2008 sudah termigrasi ke server 2016)

Active Directory Users and Computers							
File         Action         View         Help	7 🗾 🐍						
<ul> <li>Active Directory Users and Computers [ad2016.pusat.com]</li> <li>Saved Queries</li> <li>Builtin</li> <li>Computers</li> <li>Domain Controllers</li> <li>ForeignSecurityPrincipals</li> <li>Managed Service Accounts</li> <li>UserCabang</li> <li>UserPusat</li> <li>Users</li> </ul>	Name Admin Cabang GroupCabang User Cabang 1 User Cabang 2	Type User Security Group - Global User User	Description				

# {43}\_ Cek SID di server 2008 before migrate

### Cek SID dengan Active Directory Explorer

Mactive Directory Explorer - Sysinternals: www.sysinternals.com [127.0.0.1 [ad2008.cabang.com]]									
File Edit Favorites Search Compare History Help									
Path: CN=User Cabang 1,OU=UserCabang,DC=cabang,DC=com, 127.0.0.1 [ad2008.cabang.com]									
CN=Deleted Objects	Attribute	Syntax	Count	Value(s)					
⊡ i OU=Domain Controllers	logonCount 🗃	Integer	1	7					
CN=ForeignSecurityPrincipals	🔊 mail	DirectoryString	1	cabang1@cabang.com					
CN=Infrastructure	memberOf	DN	1	CN=GroupCabang,OU=UserCabang,DC=cabang,DC=com					
CN=LostAndFound	name 🔊	DirectoryString	1	User Cabang 1					
CN=Managed Service Accounts	nTSecurityDescriptor	NTSecurityDe	1	D:AI(OA;;RP;4c164200-20c0-11d0-a768-00aa006e0529;;RS)(OA;;RP;5f202010-79a5	-1				
E CN=NIDS Quotas	objectCategory	DN	1	CN=Person,CN=Schema,CN=Configuration,DC=cabang,DC=com					
E CN=Program Data	objectClass	OID	4	top;person;organizationalPerson;user					
	objectGUID	OctetString	1	{806D6F11-4640-4662-A99A-34E38020C5B9}					
E Scheddlig	objectSid	Sid	1	S-1-5-21-2342293633-2343849739-3458845129-1103					
E CN=GroupCabang	primaryGroupID	Integer	1	513					
	pwdLastSet	Integer8	1	1/30/2021 8:36:50 PM					
CN=User Cabang 1	sAMAccountName	DirectoryString	1	cabang1					
🗄 🔍 CN=User Cabang 2	sAMAccountType	Integer	1	805306368					
E I CN=Users	📄 sn	DirectoryString	1	Cabang 1					
	🔊 title	DirectoryString	1	User					
E: CN=Schema,CN=Configuration,DC=	userAccountControl	Integer	1	66048					
🗈 🚔 DC=DomainDnsZones,DC=cabang,E	, 🛛 🖻 userPrincipalName	DirectoryString	1	cabang1@cabang.com	-				
					<u>ا</u>				
CN=User Cabang 1,OU=UserCabang,DC=cabang,	DC=com, 127.0.0.1 [ad2008	cabang.com]			_//.				

#### {44}\_ Cek SID di server 2016 after migrate

SID berhasil di migrate dari server 2008 ke server 2016 (SID yang ada di server 2008 sama identik denagn yang ada di server 2016)

🖗 Active Directory Explorer - Sysinternals: www.sysinternals.com [127.0.0.1 [ad2016.pusat.com]] — 🗌 🔿											
File Edit Favorites Search Compare History Help											
🖻 🔍 🕼 日 🔛 🖆 🔶 🔻											
Path: CN=User Cabang 1,OU=UserCabang,DC=pusat,DC=com, 127.0.0.1 [ad2016.pusat.com]											
B DC=pusat,DC=com     Attribute     Syntax     Count     Value(s)											
		lobjectCategory	DN	1	CN=Person,CN=Schema,CN=Configuration,DC=pusat,DC=com						
CN=Deleted Objects		🛋 objectClass	OID	4	top;person;organizationalPerson;user						
⊕ · · · · OU=Domain Controllers		🛋 objectGUID	OctetString	1	{1717C2C5-612F-449D-967E-0F278A83CF61}						
CN=ForeignSecurityPrincipals		🛋 objectSid	Sid	1	S-1-5-21-351406134-3727805288-164476437-1609						
		🖻 primaryGroupID	Integer	1	513						
		🖻 pwdLastSet	Integer8	1	0x0						
		sAMAccountName	DirectoryString	1	cabang1						
CN=Managed Service Accounts		sAMAccountType	Integer	1	805306368						
🗄 💼 CN=NTDS Quotas		🛤 sIDHistory	Sid		S-1-5-21-2342293633-2343849739-3458845129-1103						
😟 🛗 CN=Program Data		🔊 sn	DirectoryString	1	Cabang 1						
CN=System		🔊 title	DirectoryString	1	User						
CN=TPM Devices		🖻 userAccountControl	Integer	1	512						
OU=UserCabang		🛋 userPrincipalName	DirectoryString	1	cabang1@pusat.com						
CN=Admin Cabang		🛋 uSNChanged	Integer8	1	0x9046						
the second secon		JuSNCreated	Integer8	1	0x903B						
CN=User Cabang 1		🖬 whenChanged	GeneralizedTime	1	02-Feb-21 05:55:39 AM						
En Civeuser Cabang 2	×	whenCreated	GeneralizedTime	1	02-Feb-21 05:55:39 AM						
< >						~					
CN=User Cabang 1,OU=UserCabang,DC=pus	sat, D	DC=com,127.0.0.1 [ad2016.p	ousat.com]								

#### {45}\_ Cek SID komputer client before migrate

Cek SID user cabang1 di komputer yang terhubung dengan domain cabang.com Registry: HKEY\_LOCAL\_MACHINE\SOFTWARE\Microsoft\Windows NT\CurrentVersion\ProfileList

# <mark>Cmd</mark>: whoami /user

💣 Registry Editor								
File Edit View Favorites Help								
ProfileList	*	Name	Туре	Data				
		赴 (Default)	REG_SZ	(value not set)				
		👪 Flags	REG_DWORD	0x00000000 (0)				
		赴 Guid	REG_SZ	{806d6f11-4640-4662-a99a-34e38020c5b9}				
		😻 NextLogonCach	REG_DWORD	0x00000001 (1)				
51-5-21-2342293035-2343049/39-3430043129-1104		ProfileImagePath	REG_EXPAND_SZ	C:\Users\cabang1				
S 1 5 21 2572264455 257071050-4046122550-1105		🕮 ProfileLoadTime	REG_DWORD	0x00000000 (0)				
S.1-5-21-2573264455-257871856-4040122558-1105		BrofileLoadTime	REG_DWORD	0x00000000 (0)				
S1 5 21 25/5204455 25/01050 4040122550 1100		88 RefCount	REG_DWORD	0x00000001 (1)				
S-1-5-21-2573264453-257871856-4048122558-1108		RunLogonScript	REG_DWORD	0x00000000 (0)				
S-1-5-21-2573264453-257871856-4048122558-1126		🕫 Sid	REG_BINARY	01 05 00 00 00 00 00 05 15 00 00 00 81 90 9c 8b 0b 4f b4 8				
S-1-5-21-2573264453-257871856-40481								
S-1-5-21-2573264453-257871856-40481	ws\s	system32\cmd.exe						
S-1-5-21-2573264453-257871856-404812	cal	ang	0.14	<u>^</u>				
		angi/wildani / as						
	RMA	1110N						
S-1-5-21-2646353899-120095214-79497		015						
	====	51D						
	ban	ng1 S-1-5-21-234	2293633-234384	739-3458845129-1103				
	cal	ang1>						
	cal	ang1>whoami ∕fq	dn DC-ophong l	1C=oom				
	aus	ang 1,00-0sercan	ang, bo-cabang, i					
S-1-5-21-495131562-680300042-109107. C=\Users\	cal	pang1>_						
ProfileLoader								
Computer\HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Windows NT\CurrentVersion\ProfileList\S-1-5-21-2342293633-2343849739-3458845129-1103								

#### {46}\_ Cek SID komputer client after migrate

Cek SID user cabang1 di komputer yang terhubung dengan domain pusat.com

Di folder Users akan terdpat 2 folder: cabang1 dan cabang1.PUSAT (folder cabang1 dari domain cabang.com, sedangkan cabang1.PUSAT dari domain pusat.com)

#### <mark>Cmd</mark>: whoami /user

Ketika awal login dengan domain pusat.com akan diminta untuk mengganti password



Agar profile user ketika login diarahkan ke folder user yang lama, maka harus di ubah dari registry dengan user administrator

Ganti folder path ke lokasi lama, hapus .PUSAT

📸 Registry Editor				
File Edit View Favorites Help				
ProfileList	*	Name	Туре	Data
		ab (Default)	REG_SZ	(value not set)
<b>S</b> -1-5-19		🚻 Flags	REG_DWORD	0x00000000 (0)
		ab Guid	REG SZ	{1717c2c5-612f-449d-967e-0f278a83cf61}
S-1-5-21-2342293633-2343849/39-3458845129-1103		NextLogonCach	REG DWORD	0x00000001 (1)
		ab ProfileImagePath	REG EXPAND SZ	C:\Users\cabang1.PUSAT
		ProfileLoadTime	REG DWORD	0x00000000 (0)
		R ProfileLoadTime	REG DWORD	0x00000000 (0)
		100 RefCount	REG DWORD	0x00000001 (1)
		Bunl ogonScript	REG DWORD	0x00000000 (0)
C 1 5 21 2572264453-257071050-4040122530-1107		Sid	REG BINARY	01 05 00 00 00 00 00 05 15 00 00 00 36 08 f2
		State	REG DWORD	
S-1-5-21-2573264453-257871856-4048122558-1127 bak			120_0110100	5,55555557 (5)
S-1-5-21-2573264453-257871856-4048122558-1128		Edit String		<b>—</b>
5-1-5-21-2573264453-257871856-4048122558-1129		Value name:		
5-1-5-21-2573264453-257871856-4048122558-1610		Pastialmane Path		
S-1-5-21-2646353899-120095214-794975970-1104		ProfileImagePath		
S-1-5-21-2646353899-120095214-794975970-1105		Value data:		
		C:\Users\cabang1	PUSAT	
			-	
S-1-5-21-351406134-3727805288-164476437-1107	Ξ			OK Cancel
S-1-5-21-351406134-3727805288-164476437-1108				
S-1-5-21-351406134-3727805288-164476437-1604				
S-1-5-21-495131562-680300042-1091072176-1000				
▷ - J ProfileLoader	Ŧ	•		4
Computer\HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Windows NT\CurrentVersion	n\Pr	ofileList\S-1-5-21-35140	6134-3727805288-164	476437-1609

#### {47}\_ Raise domain dan forest functional level

Active Directory Domain and Trusts: pusat.com, Raise domain functional level, pilih Windows Server 2016

Active Directory D	omains and Trusts		- 🗆 X
File Action View	Help		
🗢 🔿 🔁 📰 🗉			
Active Directory D	omains and Trusts [ ad2016.pusat.com ] Name Type		Actions
📳 pusat.com	Raise domain functional level	× ,.	pusat.com
	Domain name: pusat.com Current domain functional level: Windows Server 2003 Select an available domain functional level: Windows Server 2016 ▲ After you raise the domain functional level, it is possible that you may not be able to reverse it. For more information on domain functional levels, click Help. Raise Cancel Help	7	More Actions

# Active Directory Domain and Trusts [ad2016.pusat.com] : Raise forest functional level, pilih Windows Server 2016

Active Directory Domains a	and Trusts	- 🗆 ×
File Action View Help	- Annual -	
🗢 🌳 🔲 🖾 🗣	?	
Active Directory Domains a	nd Trusts [ ad2016.pusat.com ] Name Type	Actions
pusat.com	Raise forest functional level X	Active Directory Domains and Tr $\blacktriangle$
	Forest name: pusat.com Current forest functional level: Windows Server 2003 Select an available forest functional level: Windows Server 2016 ✓ After you raise the forest functional level, it is possible that you may not be able to reverse it. For more information on forest functional levels, click Help. Raise Cancel Help	More Actions

#### {48}\_ Windows Server 2016 RODC join domain pusat.com

Hostname: rodc2016, ip address: 192.168.2.3, gateway: 192.168.2.1, dns: 192.168.2.3 ; 192.168.2.1, join domain pusat.com.



# [49] Install Active Directory Windows Server 2016 RODC

#### Server Manager, Add Roles and Features

📥 Server Manager		_		$\times$
📥 Add Roles and Features Wizard		-		×
Before you begin		DESTINAT rodc201	TON SERVE 16.pusat.co	iR m
Before You Begin Installation Type	This wizard helps you install roles, role services, or features. You determine which re features to install based on the computing needs of your organization, such as sha hosting a website.	ring docu	services, o ments, o	or r
Server Selection To remove roles, role services, or features: Server Roles Start the Remove Roles and Features Wizard				
	Features Before you continue, verify that the following tasks have been completed:			
	<ul> <li>The Administrator account has a strong password</li> <li>Network settings, such as static IP addresses, are configured</li> <li>The most current security updates from Windows Update are installed</li> </ul>			
	If you must verify that any of the preceding prerequisites have been completed, clo complete the steps, and then run the wizard again.	ose the wi	zard,	
	To continue, click Next.			
	Skip this page by default			
	< Previous Next > Inst	all	Cancel	

# Select installation type: Role-based or feature-based installation

🚘 Server Manager		_		$\times$
📥 Add Roles and Features Wizard		-		$\times$
Select installation	type	DESTINA rodc20	TION SERV 16.pusat.co	'ER om
Before You Begin	Select the installation type. You can install roles and features on a running physical machine, or on an offline virtual hard disk (VHD).	compute	er or virtu	ıal
Installation Type Server Selection	Role-based or feature-based installation Configure a single server by adding roles, role services, and features.			
Features Confirmation	Remote Desktop Services installation Install required role services for Virtual Desktop Infrastructure (VDI) to create a v or session-based deskton denlowment	rirtual ma	ichine-ba	ised
Results				
	< Previous Next > Inst	IIIe	Cance	I

# Select destination server: rodc2016.pusat.com

Server Manager					-	
Add Koles and Features Wi	Roles and Features Wizard         ect destination server         ore You Begin         Select a server or a virtual hard disk on which to install roles and features.         allation Tupe					
Select destinati	on server			DESTINA rodc20	TION SERV 16.pusat.c	VER
Before You Begin	Select a server or a	virtual hard disk on whic	h to install roles and features.			
Installation Type	<ul> <li>Select a server</li> </ul>	from the server pool				
Server Selection	<ul> <li>Select a virtual</li> </ul>	hard disk				
Server Roles	Server Pool					
Features						_
	Filter:					
	News					
	Name	IP Address	Operating System			
	rodc2016.pusat.co	IP Address	Operating System Microsoft Windows Server	2016 Standard		
	rodc2016.pusat.co	1P Address om 192.168.2.3	Operating System Microsoft Windows Server	2016 Standard		

Server Roles:	Active L	Directory l	Jomain	Service
---------------	----------	-------------	--------	---------

🚘 Server Manager		_		$\times$
📥 Add Roles and Features Wizard		_		$\times$
Select server roles		DESTINATIC rodc2016	ON SERVE	éR m
Before You Begin Installation Type Server Selection Server Roles Features Confirmation Results	Select one or more role Roles Active Director Active Director Active Director Active Director Active Director Device Health DHCP Server Fax Server Fax Server Fax Server Fax Server Fax Server P File and Storag Host Guardian Hyper-V MultiPoint Sen Network Policy Print and Docus Remote Access Remote Deskte Volume Activat Web Server (IS Windows Depl	Add Roles and Features Wizard Add features that are required for Active Directory Domain Services? You cannot install Active Directory Domain Services unless the following role services or features are also installed. [Tools] Group Policy Management A Remote Server Administration Tools A Role Administration Tools A D S and AD LDS Tools Active Directory module for Windows PowerShell AD DS Tools [Tools] Active Directory Administrative Center [Tools] AD DS Snap-Ins and Command-Line Too ] Include management tools (if applicable) Add Features Cancel	Is Cancel	×
		< Previous Next > Install	Cancel	



📥 Server Manager		_		$\times$
🚡 Add Roles and Features Wizard		-		×
Installation progress	S	DESTINA rodc20	TION SERV 116.pusat.c	/ER om
Before You Begin	View installation progress			
Installation Type	Feature installation			
Server Selection				
Server Roles	Configuration required. Installation succeeded on rodc2016.pusat.com.			
Features	Active Directory Domain Services			^
AD DS	Additional steps are required to make this machine a domain controller.			
Confirmation	Promote this server to a domain controller			
Results	Group Policy Management			
	Remote Server Administration Tools			
	AD DS and AD LDS Tools			
	Active Directory module for Windows PowerShell			
	AD DS Tools			
	Active Directory Administrative Center			
	AD DS Snap-Ins and Command-Line Tools			$\sim$
	You can close this wizard without interrupting running tasks. View task pro page again by clicking Notifications in the command bar, and then Task D Export configuration settings	ogress or o etails.	open this	
	< Previous Next > Cl	ose	Cance	4

#### Server manager: Promote this server to a domain controller

🚘 Server Manager		- 🗆 X
🕞 💿 🔹 🕶 Dashb	oard 🔹 🕫 🏹	Manage Tools View Help
<ul> <li>Dashboard</li> <li>Local Server</li> <li>All Servers</li> <li>AD DS</li> <li>File and Storage Services ▷</li> </ul>	Post-deployment Configura TASKS ~ X Configuration required for Active Directory Domain Services at RODC2016 Promote this server to a domain controller Feature installation Configuration required. Installation succeeded on rodc2016, pusat.com. Add Roles and Features Task Details 5 Connect the LEARN MORE Roles: 2   Server groups: 1   Servers total: 1 Task DDS 1 Task Data Output Task Data Output Connect the LEARN MORE	is local server d features rvers to manage rer group is server to cloud services Hide

# Deployment Configuration: add a domain controller to an existing domain, domain: pusat.com, user: PUSAT\administrator

🚘 Server Manager			- 🗆 ×
📥 Active Directory Domain Service	Configuration Wizard		- 🗆 X
Deployment Conf	guration		TARGET SERVER rodc2016.pusat.com
Deployment Configuration Domain Controller Options Additional Options Paths Review Options Prerequisites Check Installation Results	Select the deployment operation    Select the domain controller to an existing doo  Add a new domain to an existing forest  Add a new forest  Specify the domain information for this operation  Domain:	main tion t.com	Select
	< Previous	Next >	Install

# Domain Controller Options:

Domain Name System (DNS) server, Global Catalog (GC), Read only domain controller (RODC)

	Server Manager				- •	_		×
	Active Directory Domain Services	Configuration Wizard				_		×
	Domain Controller	Options				TAR	GET SERVE	R
		Options				rodc201	6.pusat.coi	n
	Deployment Configuration Domain Controller Options RODC Options Additional Options Paths Review Options Prerequisites Check Installation Results	Specify domain controller capabi Domain Name System (DNS) Global Catalog (GC) Read only domain controller Site name: Type the Directory Services Resto Password: Confirm password:	lities and site in server (RODC) Defaul ore Mode (DSRM	formation t-First-Site-Nam I) password	e v			
		More about domain controller of	otions					
			< Previous	Next >	Insta		Cancel	,
	👝 Server Manager					_		×
	Active Directory Domain Services	s Configuration Wizard				-		×
	RODC Options					TAR rodc201	GET SERVE 6.pusat.co	R m
	Deployment Configuration Domain Controller Options RODC Options Additional Options Paths Review Options Prerequisites Check Installation	Delegated administrator account <not provided=""> Accounts that are allowed to rep PUSAT\Allowed RODC Password</not>	icate password: d Replication Gro	s to the RODC		S	Add	
	Results	Accounts that are denied from re	plicating passw	ords to the ROD	с	_		
		BUILTIN\Administrators BUILTIN\Server Operators BUILTIN\Backup Operators If the same account is both allow	ed and denied,	denied takes pre	cedence.	R	Add	]
		More about RODC options						
			< Previous	Next >	Insta	11	Cancel	]
F	<mark>Replicate from</mark> : ac	2016.pusat.co	m					
1	🚖 Server Manager					-		×
	Active Directory Domain Services	Configuration Wizard				-		
	Additional Options				r	TARG odc2016.	ET SERVER pusat.com	^
	Deployment Configuration Domain Controller Options RODC Options Additional Options Paths Preparation Options Review Options Prerequisites Check Installation	Specify Install From Media (IFM) C Install from media Specify additional replication option Replicate from:	options	pusat.com			~	
	Results	More about additional options						
			< Previous	Next >	Install		Cancel	

Server Manager		- 0
📥 Active Directory Domain Service	es Configuration Wizard	- 0
		TARGET SERVE
Paths		rodc2016.pusat.co
Deployment Configuration		
Domain Controller Options	Specify the location of the AD	DS database, log files, and SYSVOL
RODC Options	Database folder:	C:\Windows\NTDS
Additional Options	Log files folder:	C:\Windows\NTDS
Paths Bropparation Options	STSVOL IDIDEI:	C:\WINDOWS\313VOL
Review Options		
Prerequisites Check		
	More about Active Directory p	aths
		Carel
6 H		
Server Manager	c Configuration Wizard	
Active Directory Domain Service	s Configuration wizard	
Preparation Optio	ins	TARGET SERVE
ricpulation optic	115	rodc2016.pusat.co
Deployment Configuration	To install this description to the	
Domain Controller Options	Read-only domain controlle	r, the wizard needs to perform the following operation(s):
RODC Options	head only domain condone	preparation
Additional Options		
Preparation Ontions		
Review Options		
Prerequisites Check		
	More about preparation optio	ns
		< Previous Next > Install Cancel
Server Manager		- 0
Active Directory Domain Service	s Configuration Wizard	>
Poviow Options		TARGET SERVE
Review Options		rodc2016.pusat.com
Deployment Configuration	Review your selections:	
Domain Controller Options	Configure this server as an add	ditional Active Directory domain controller for the domain
RODC Options	Cite New D 6 / 5 - 10	
Additional Options	Site Name: Default-First-Site-N	Name
Paths Bronzection Ontions	Additional Options:	
Review Options	Read-only domain controller	Yes
Prerequisites Check	Global catalog: Yes	
	DNS Server: Yes	
	Update DNS Delegation: No	
	Source DC: ad2016.pusat.com	
		~
	These settings can be exported	to a Windows PowerShell script to automate
	additional installations	View script
	More about installation option	5
		< Previous Next > Install Cancel



#### Installasi RODC berhasil.



#### {50}\_ Cek Server RODC

DNS Manager sudah tereplikasi, RODC2016 sudah join dengan AD2016



#### {51}\_ Schedule Replikasi

Active Directory Sites and Services, RODC2016, NTDS Settings, RODC Conection (SYSVOL), Properties,

General, Change Schedule.. All, Four Time per Hour.



#### {52}\_ Re-join Domain ke pusat.com

Komputer win7cabang, re-join domain ke domain pusat.com

System Properties		23					
Computer Name/Domain Changes		ote		Compu	ter Name/Domain Changes	h Control Panel	Q
You can change the name and the men computer. Changes might affect access <u>More information</u>	ibership of this to network resources.	nputer	oration. All rights res		Welcome to the pusat.com domain		
Computer name: win7cabang Full computer name:	y	's			ОК		2
win7cabang.cabang.com			L L	(			
	More				Windows Security		
Member of Domain: pusat.com		ə	alBox em rating is not availab (R) Core(TM) i7-6700T	ole CPU @ 2	Computer Name/Domain C Enter the name and password of an domain.	hanges account with permission to join th	e
Workgroup:	Cancel		ИВ it Operating System en or Touch Input is a	vailable	Cabang1		. =
0	K Cancel	Apply	0-633-1058 ne support			OK Cance	el
	Computer name, doma	ain, and work	group settings			<u>^</u>	
	Computer name:	win	/cabang			😽 Change se	ettings
	Full computer nam	ie: win.	/cabang.cabang.com				
See also Action Center	Domain:	caba	ang.com				
Windows Update	Windows activation						
Performance Information and Tools	🌇 12 days to activ Product ID: 00426-2	vate. Activate 292-0000007-8	Windows now 35233 Change produ	uct key			-
							.ai

Saat akan login dengan user cabang1 di domain pusat.com maka akan disuruh untuk mengubah password terlebih dahulu.


Ganti User Profile lokasi folder dengan folder lama.

