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INFINITE FLEXIBILITY
(/)

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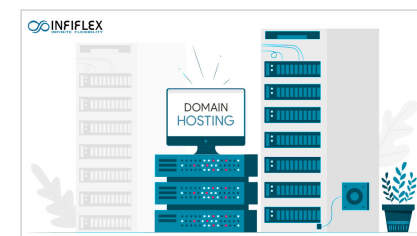
Blog

Blog   Like   Follow ()   Follow (undefined)   FOLLOW >

How to Setup Active Directory in Windows Server?

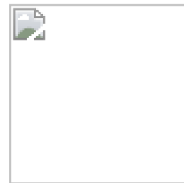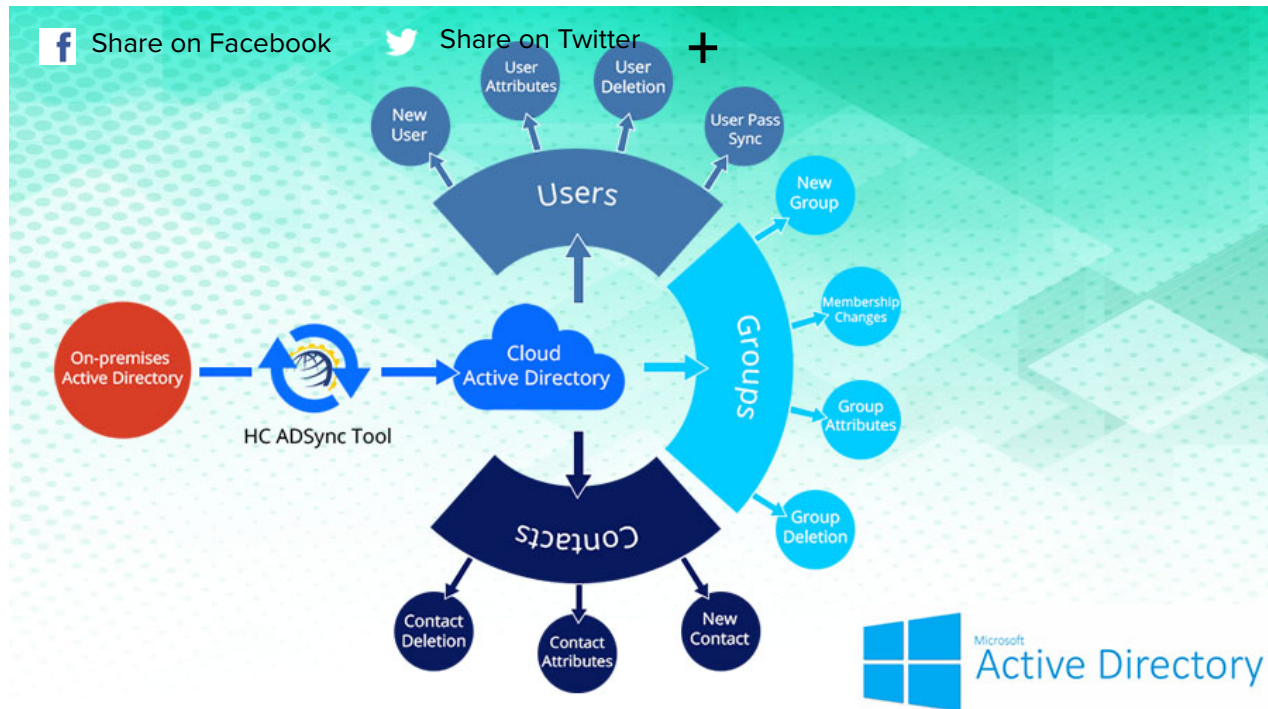Share on Facebook   Share on Twitter   +

Scrabbl

(/attention---
net4india-
shutting-down)

**BLOG (/CMSUTILS.ACTION?
FETCHTOPIC=&TOPIC=BLOG)**   ⬆ ()

Attention !!
Net4India shutting
down (/attention---

net4india-shutting-
down)

Views : 6511 |

(/exporting-data-
backup-of-office-
365-mailbox-in-
pst-file-format)

Exporting Data
Backup of Office 365
Mailbox in PST File
Format (/exporting-
data-backup-of-
office-365-mailbox-
in-pst-file-format)↥ ()

Views : 10285 |

(/author/5727950116749312)

Scrabbl

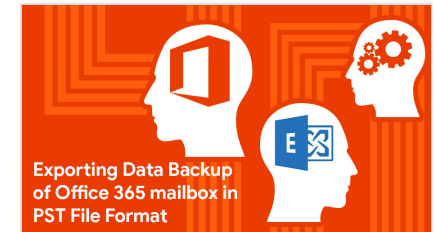**BY SHREYA BHUNIA
(/AUTHOR/5727950116749312)**

- Create a virtual machine instance under Compute Engine for Windows Server.
- Open the remote desktop for Windows using RDP
- Goto Start - Server Manager - Roles - Add Roles And Feature

SEE ALSO:

**How to Install Python 3.6 in Cent OS on GCP (/how-to-install-
python-3-6-in-cent-os-on-gcp)**

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(/q-a-and-polls-
features-in-google-
meet)

**BLOG (/CMSUTILS.ACTION?
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Q&A and Polls
Features in Google
Meet (/q-a-and-
polls-features-in-
google-meet)

Views : 8585 |
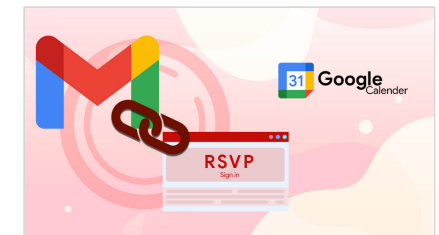
- Then it opens the add roles and features wizard. Click on next to proceed.

Scrabbl

(/sign-in-to-rsvp-
by-hyperlinks-in-
google-calendar-
email-invitation)

- Then in next window keep the default and click next

Sign in to RSVP By Hyperlinks in Google Calendar Email Invitation (/sign-in-to-rsvp-by-hyperlinks-in-google-calendar-email-invitation)

Views : 7327 |
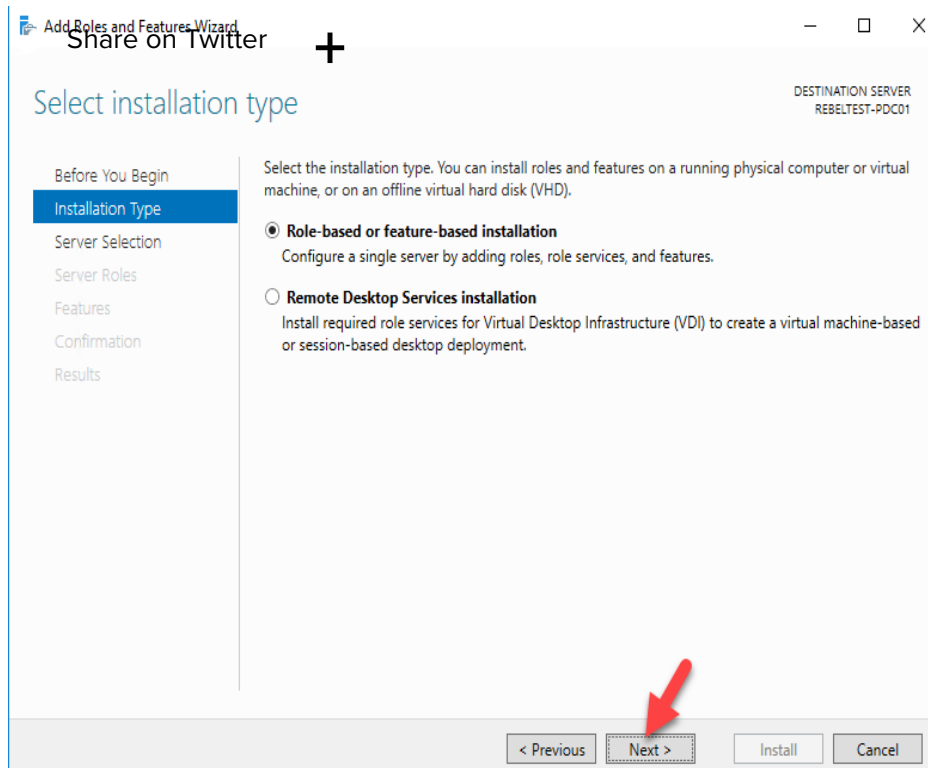
- Since it's going to be local server, in next window keep the default selection.

Scrabbl
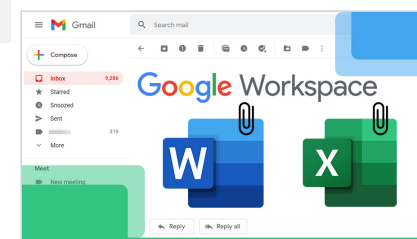
(/easy-access-to-office-attachments-in-google-workspace)

⬆ ()

Easy Access to Office Attachments in

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- In next window from the roles put tick box for active directory domain services. Then it will prompt to show you what are the associated features for the role. Click on add features to add those. Then click next to continue.

Scrabbl

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Add Roles and Features Wizard — ☐ ✕

Select server roles

DESTINATION SERVER
REBELTEST-PDC01

Before You Begin
Installation Type
Server Selection
Server Roles
Features
Confirmation
Results

Select one or more roles to install on the selected server.

Roles

☐ Active Directory Certificate Services
☑ Active Directory Domain Services
☐ Active Directory Federation Services
☐ Active Directory Lightweight Directory Services
☐ Active Directory Rights Management Services
☐ Device Health Attestation
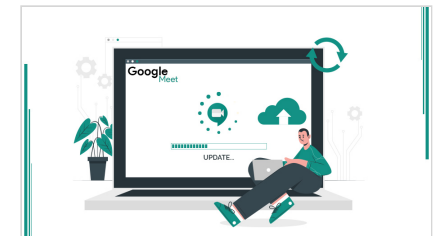☐ DHCP Server
☐ DNS Server
☐ Fax Server
▣ File and Storage Services (1 of 12 installed)
☐ Host Guardian Service
☐ Hyper-V
☐ MultiPoint Services
☐ Network Controller
☐ Network Policy and Access Services
☐ Print and Document Services
☐ Remote Access
☐ Remote Desktop Services
☐ Volume Activation Services
☐ Web Server (IIS)

Description

Active Directory Domain Services (AD DS) stores information about objects on the network and makes this information available to users and network administrators. AD DS uses domain controllers to give network users access to permitted resources anywhere on the network through a single logon process.

< Previous | Next > | Install | Cancel

(/s-mime-encryption-secure-multipurpose-internet-mail-extensions)

BLOG (/CMSUTILS.ACTION? FETCHTOPIC=&TOPIC=BLOG)

S MIME Encryption Secure Multipurpose Internet Mail Extensions (/s-mime-encryption-secure-multipurpose-internet-mail-extensions)

Views : 8806 |

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⬆ ()

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Add Roles and Features Wizard — □ ✕

Select server rol

DESTINATION SERVER
REBELTEST-PDC01

Add Roles and Features Wizard ✕

Add features that are required for Active Directory Domain Services?

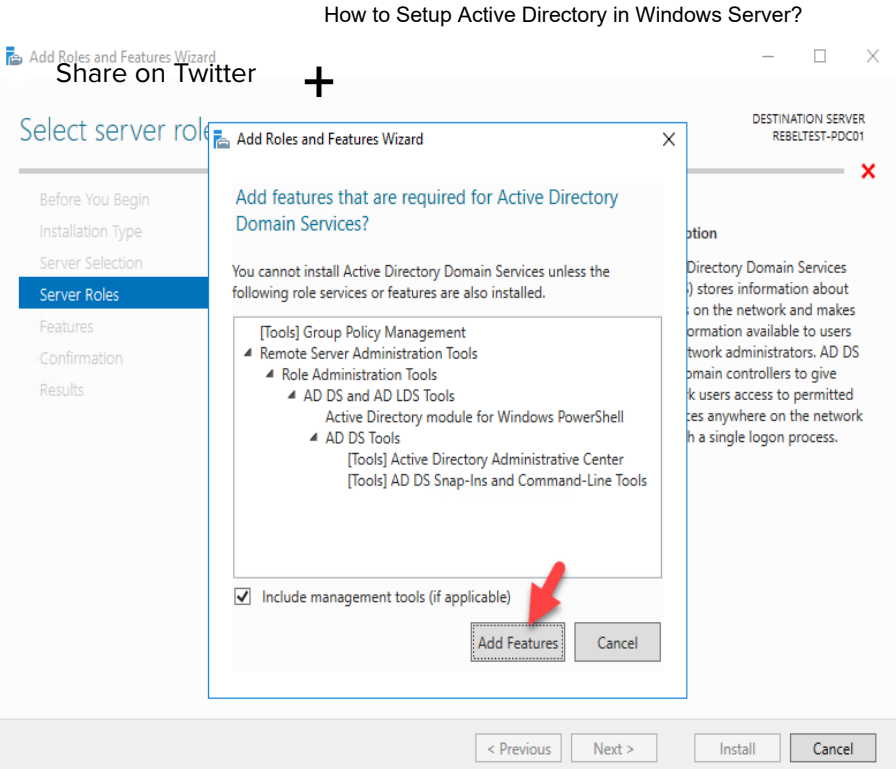You cannot install Active Directory Domain Services unless the following role services or features are also installed.

Before You Begin
Installation Type
Server Selection
Server Roles
Features
Confirmation
Results

[Tools] 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
       [Tools] Active Directory Administrative Center
       [Tools] AD DS Snap-Ins and Command-Line Tools

☑ Include management tools (if applicable)

Add Features   Cancel

< Previous   Next >   Install   Cancel

Directory Domain Services
) stores information about
 on the network and makes
ormation available to users
twork administrators. AD DS
omain controllers to give
k users access to permitted
es anywhere on the network
h a single logon process.

ption

✕

Scrabbl

(/execute-projects-successfully-with-microsoft-project)

**BLOG (/CMSUTILS.ACTION?
FETCHTOPIC=&TOPIC=BLOG)**

Execute Projects Successfully with Microsoft Project (/execute-projects-successfully-with-microsoft-project)
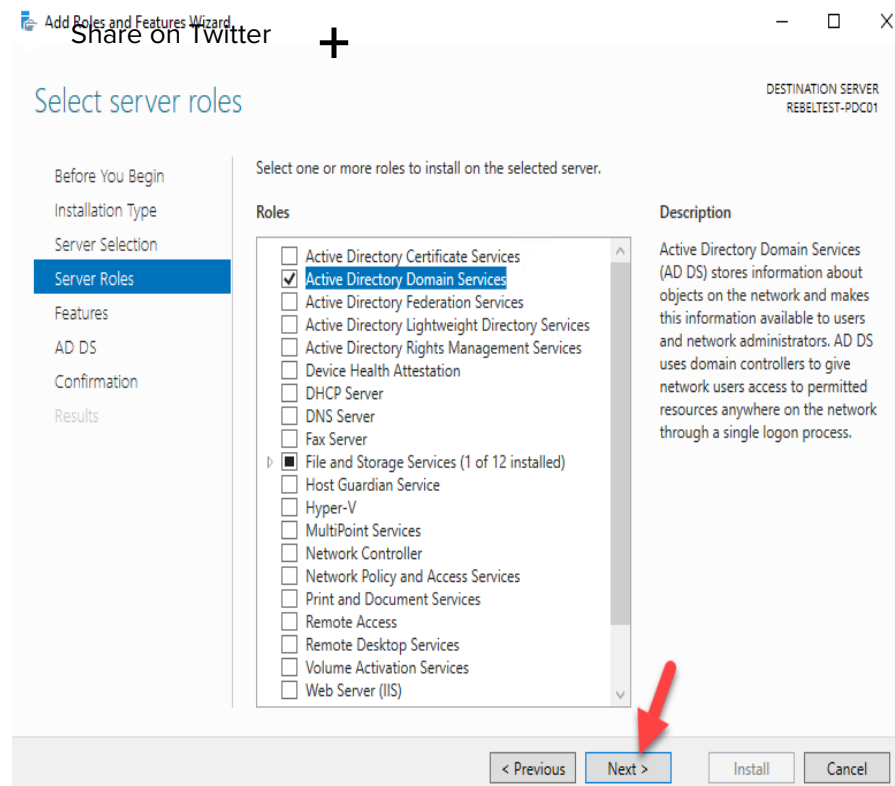
Views : 3145 |

(/visualize-data-

Add Roles and Features Wizard   – □ ✕

Select server roles

DESTINATION SERVER
REBELTEST-PDC01

Before You Begin
Installation Type
Server Selection
Server Roles
Features
AD DS
Confirmation
Results

Select one or more roles to install on the selected server.

Roles

- ☐ Active Directory Certificate Services
- ☑ Active Directory Domain Services
- ☐ Active Directory Federation Services
- ☐ Active Directory Lightweight Directory Services
- ☐ Active Directory Rights Management Services
- ☐ Device Health Attestation
- ☐ DHCP Server
- ☐ DNS Server
- ☐ Fax Server
- ☐ File and Storage Services (1 of 12 installed)
- ☐ Host Guardian Service
- ☐ Hyper-V
- ☐ MultiPoint Services
- ☐ Network Controller
- ☐ Network Policy and Access Services
- ☐ Print and Document Services
- ☐ Remote Access
- ☐ Remote Desktop Services
- ☐ Volume Activation Services
- ☐ Web Server (IIS)

Description

Active Directory Domain Services (AD DS) stores information about objects on the network and makes this information available to users and network administrators. AD DS uses domain controllers to give network users access to permitted resources anywhere on the network through a single logon process.

< Previous   Next >   Install   Cancel

- The features page, keep it default and click on next to proceed

Scrabbl

BLOG (/CMSUTILS.ACTION? FETCHTOPIC=&TOPIC=BLOG)

Tips to Ensure the Prevention of Spoofing, Phishing and Spam in Google Workspace (/tips-to-ensure-the-prevention-of-spoofing-phishing-and-spam-in-google-workspace)
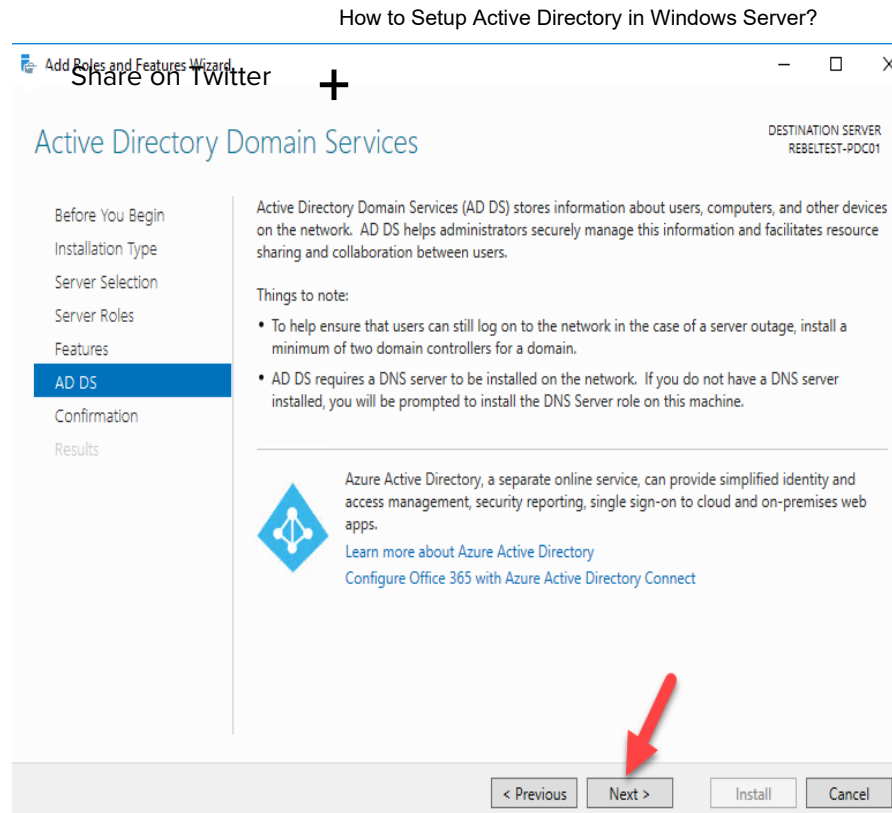
Views : 10472 |
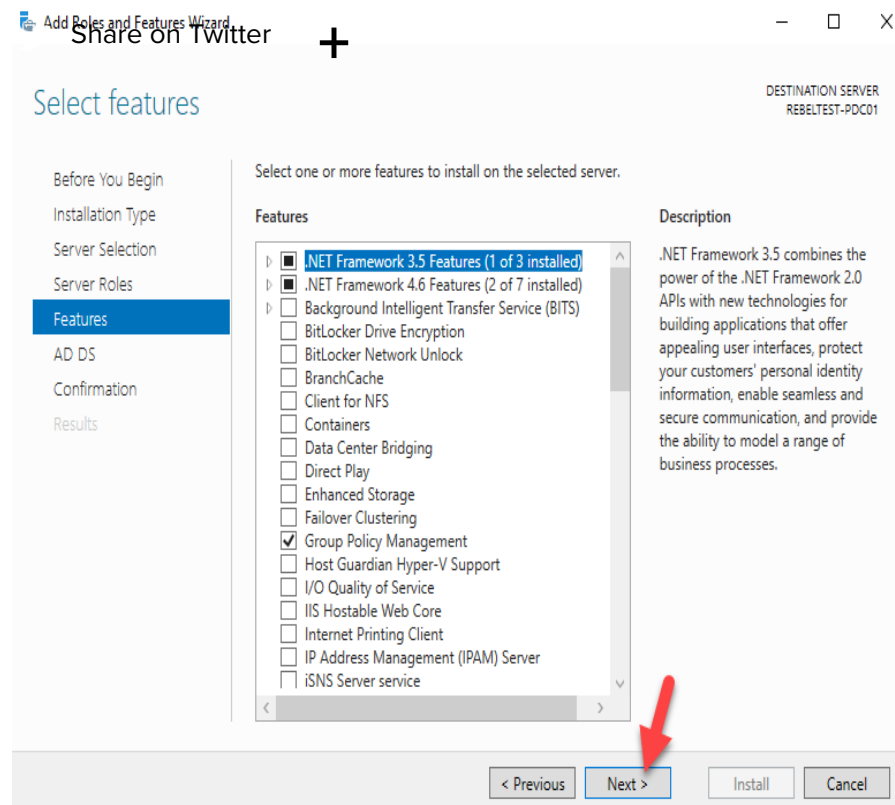
- In next windows it gives brief description about AD DS service. Click next to proceed.

Scrabbl

Add Roles and Features Wizard

— □ ✕

Active Directory Domain Services

DESTINATION SERVER
REBELTEST-PDC01

Before You Begin
Installation Type
Server Selection
Server Roles
Features
AD DS
Confirmation
Results

Active Directory Domain Services (AD DS) stores information about users, computers, and other devices on the network. AD DS helps administrators securely manage this information and facilitates resource sharing and collaboration between users.

Things to note:

• To help ensure that users can still log on to the network in the case of a server outage, install a minimum of two domain controllers for a domain.

• AD DS requires a DNS server to be installed on the network. If you do not have a DNS server installed, you will be prompted to install the DNS Server role on this machine.

Azure Active Directory, a separate online service, can provide simplified identity and access management, security reporting, single sign-on to cloud and on-premises web apps.

Learn more about Azure Active Directory

Configure Office 365 with Azure Active Directory Connect

[< Previous] [Next >] [Install] [Cancel]

- Then it will give the confirmation about install, click on install to start the role installation process.
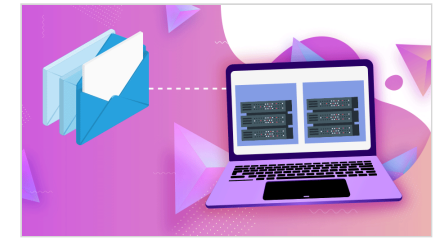
Scrabbl

(/setting-up-
connector-based-
delivery-of-emails-
from-microsoft-
365-using-mx-
records)

Setting up
"Connector Based"
Delivery of Emails
from Microsoft 365
Using MX Records
(/setting-up-
connector-based-
delivery-of-emails-
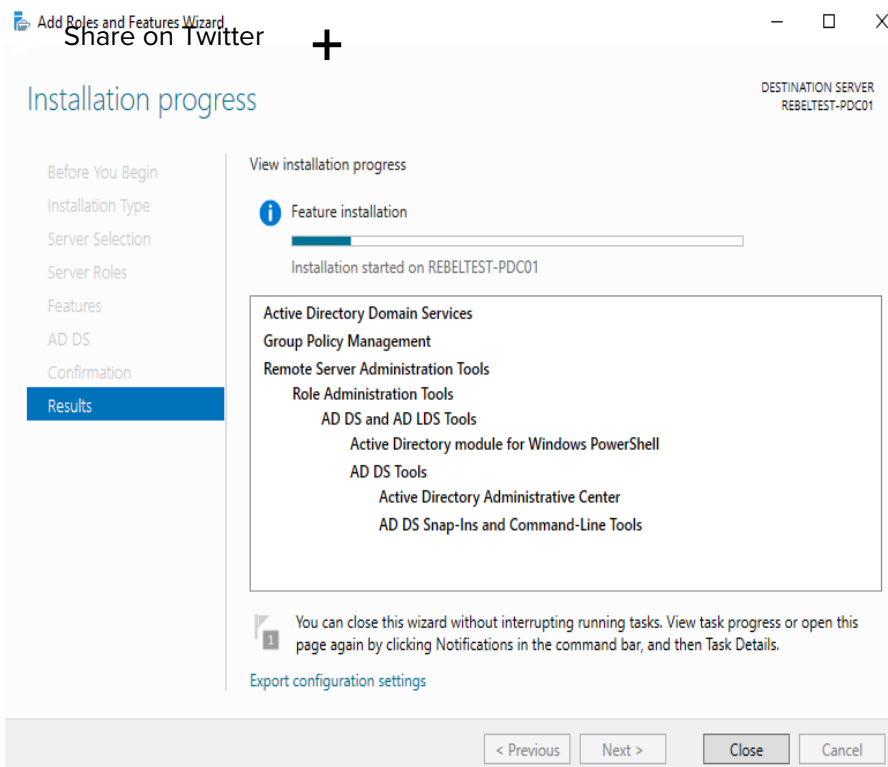from-microsoft-365-
using-mx-records) ⬆ ()

Views : 20162 |

↪

Add Roles and Features Wizard

— □ ✕

Confirm installation selections

DESTINATION SERVER
REBELTEST-PDC01

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 Install.

☐ Restart the destination server automatically if required

Optional features (such as administration tools) might be displayed on this page because they have been selected automatically. If you do not want to install these optional features, click Previous to clear 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

Export configuration settings
Specify an alternate source path

< Previous   Next >   Install   Cancel

- Once done, it will start the installation process

Scrabbl

⬆ ()

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- After you install Active directory, you need to promote the instance to Domain Controller.
- Before starting to promote the instance to the Domain controller set a password for a Administrator by going to - Server Manager - Tools - Computer Management - Local Users and Groups - Users - Administrator - Set Password

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⬆ ()

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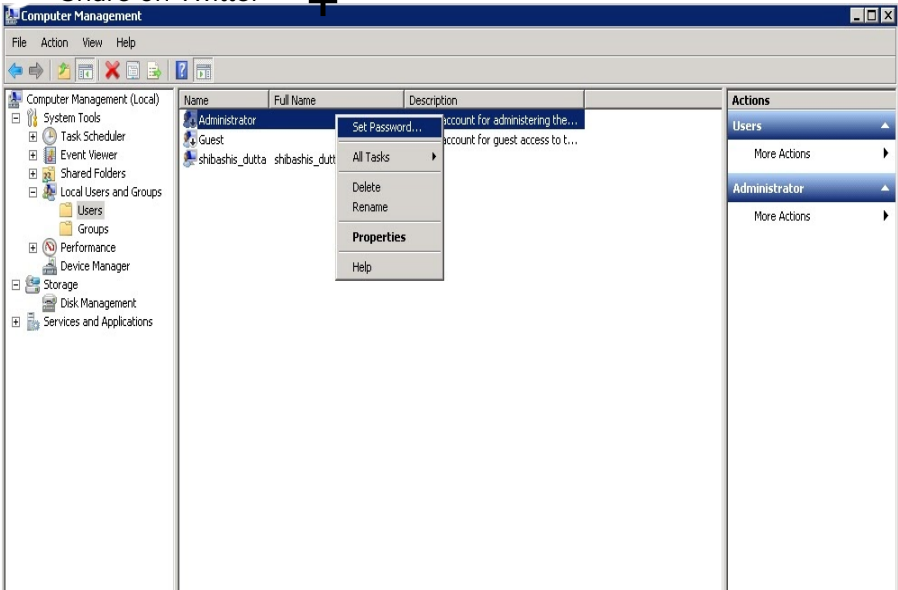
- After changing the Administrative password, click on option promote this server to a domain controller.

Scrabbl

↑ ()

- Share on Twitter
+
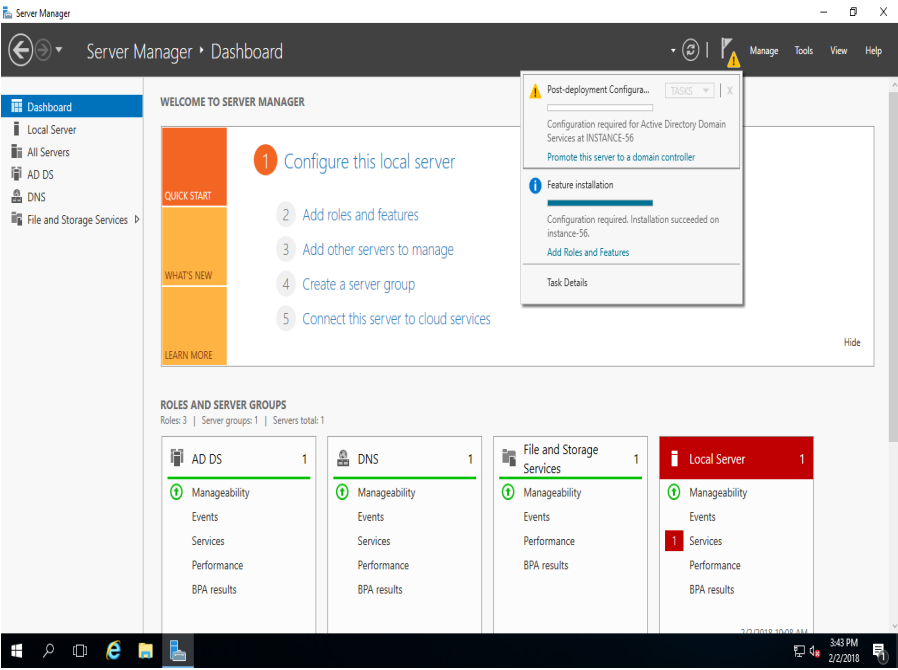
Then it will open the active directory configuration wizard. Click on add a new forest. But if you adding this to existing domain you can choose relevant option. Type FQDN for the domain. Then click next.
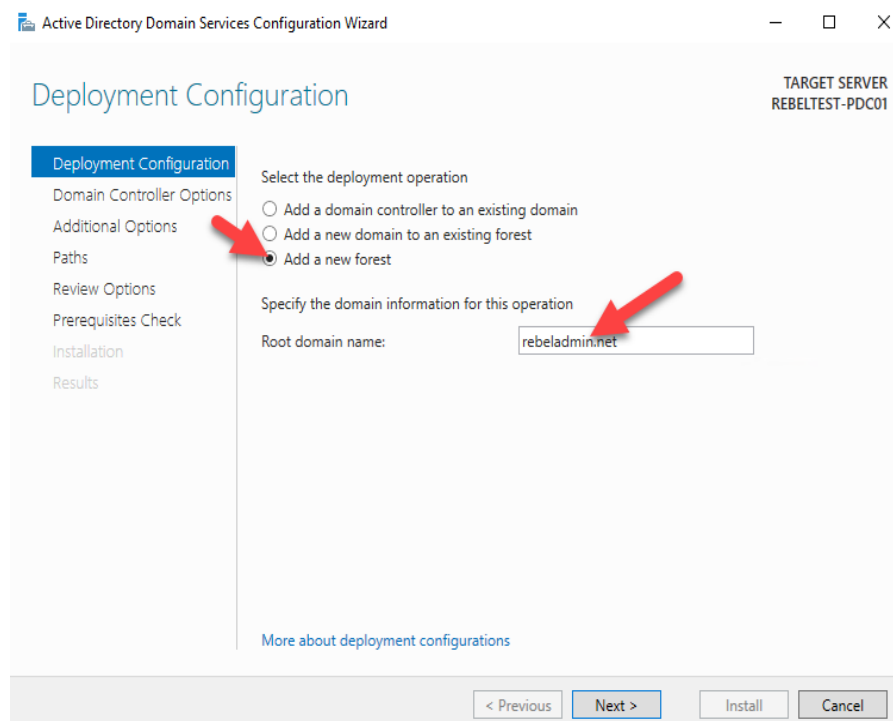
- In next page you can select the domain and forest functional levels. I am going to set it up with latest. Then type a password for DSRM. Then click next

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↑ ()

- For the DNS options, this going to be the first DNS server in new forest. So no need any modifications. Click next to proceed.

Scrabbl

⬆ ()
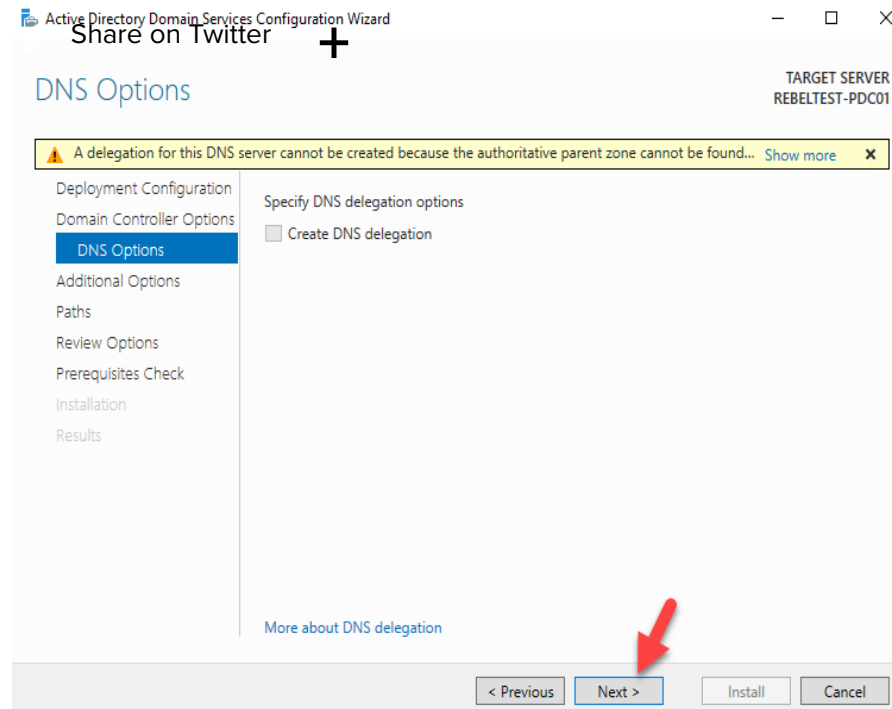
- For the NETBIOS name keep the default and click next

Scrabbl

↑ ()

- Next page is to define the NTDS, SYSVOL and LOG file folders. You can keep default or define different path for these. In demo I will be keeping default. Once changes are done, click next to continue

Scrabbl

↑ ()

Active Directory Domain Services Configuration Wizard   —   □   ×

Paths   TARGET SERVER
                                                               REBELTEST-PDC01

Deployment Configuration   Specify the location of the AD DS database, log files, and SYSVOL
Domain Controller Options
    DNS Options   Database folder: C:\Windows\NTDS   ...
Additional Options   Log files folder: C:\Windows\NTDS   ...
Paths   SYSVOL folder: C:\Windows\SYSVOL   ...
Review Options
Prerequisites Check
Installation
Results

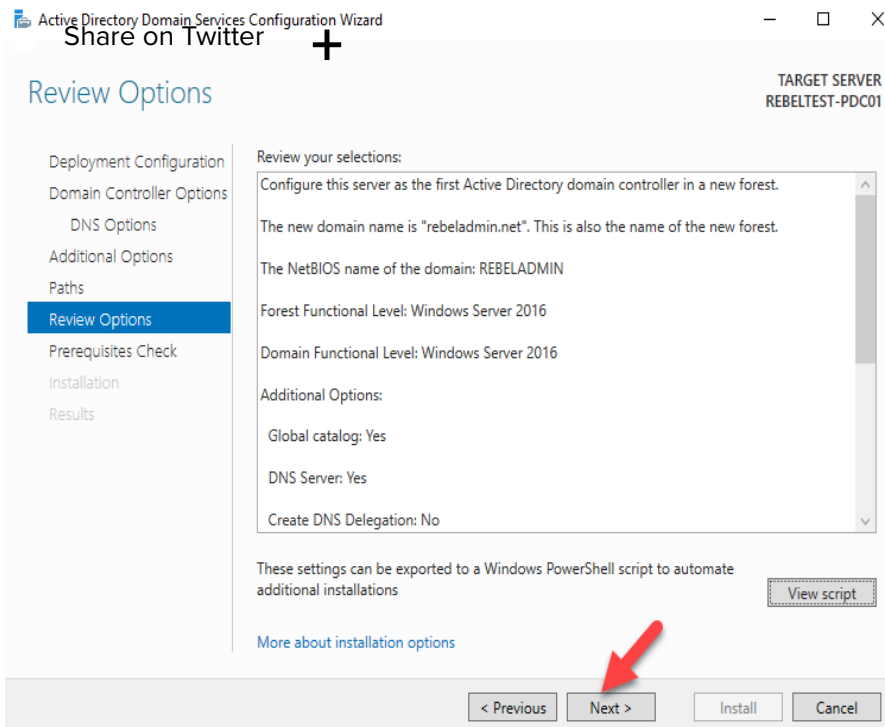More about Active Directory paths

                                        < Previous   Next >   Install   Cancel

- Next page will give option to review the configuration changes. If everything okay you can click next to proceed or otherwise can go back and change the settings.
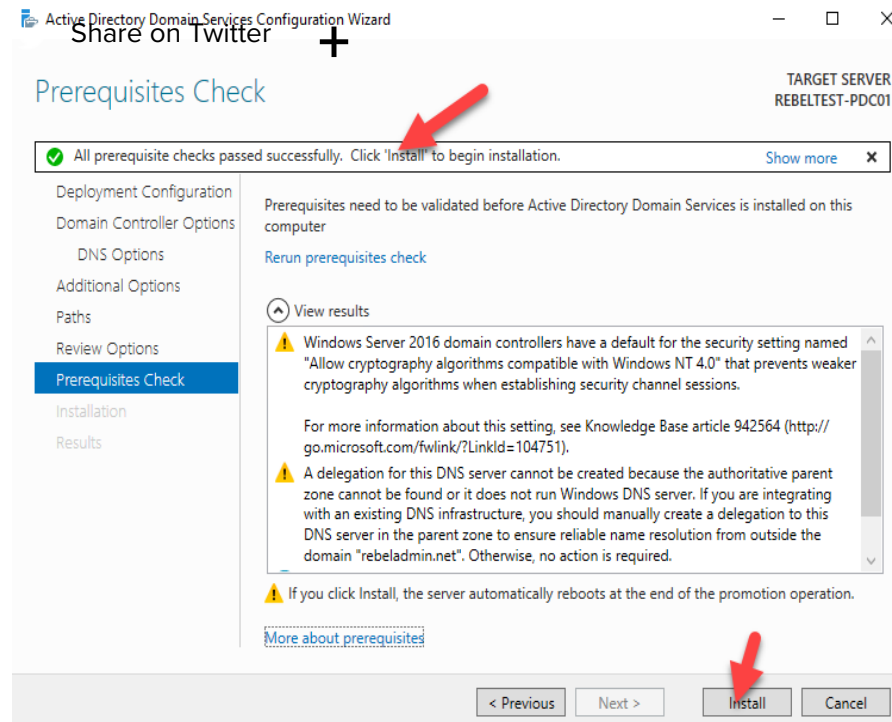
Scrabbl

⬆ ()

- In next windows it will do prerequisite check. If it's all good it will enable option to install. Click on install to begin installation process.
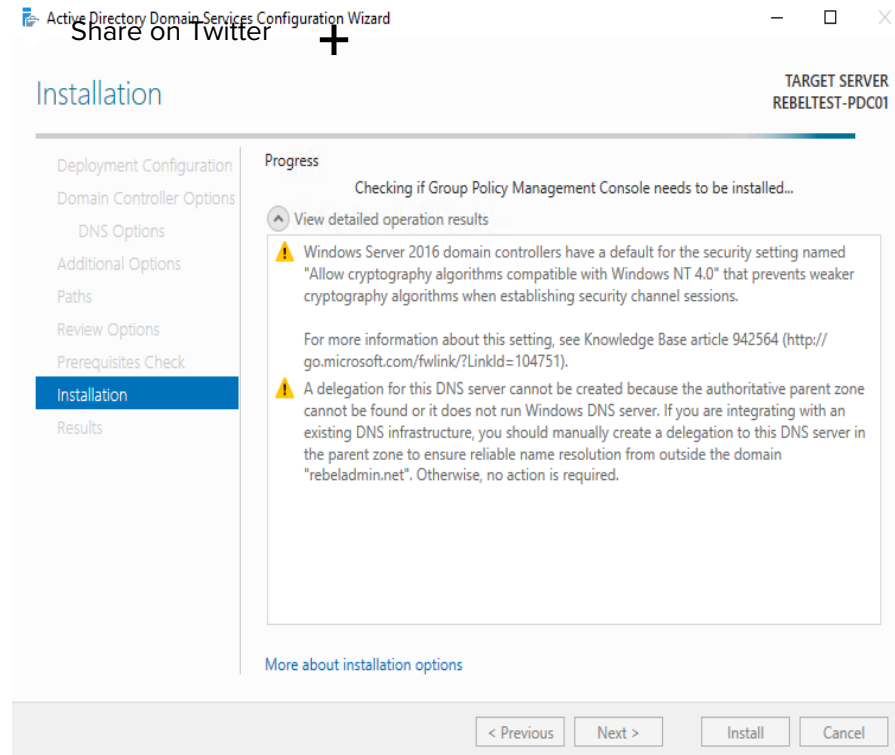
Scrabbl

↑ ()

- Then it will start the installation process.

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- After the installation of Active Directory the Windows server will shut down Automatically.

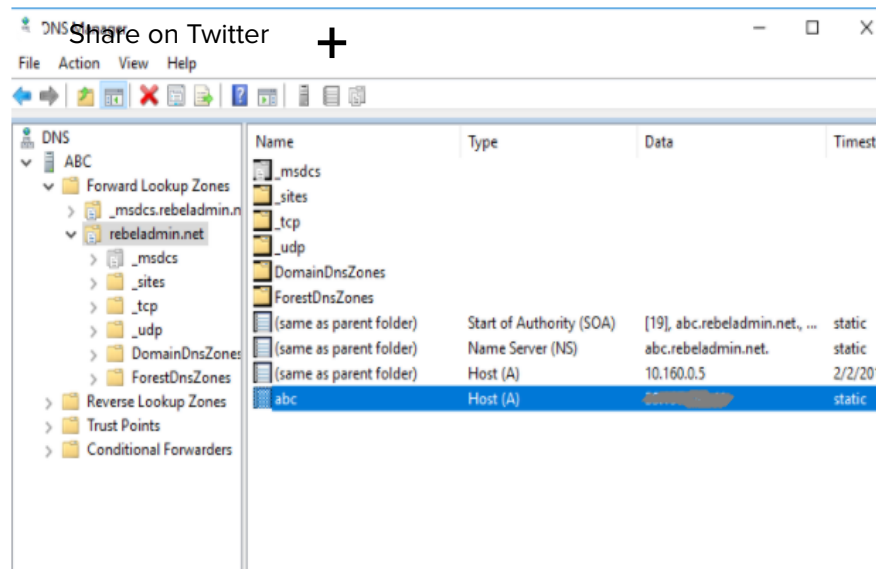# Connecting Local Computer With Remote Computer Using Active Directory

↑ ()

- Goto Start - Type DNS - the DNS Manager gets opened.
  Expand DNS - Instance Name(ex. ABCt) - Forward Lookup
  Zones - rebeladmin.net

- Edit Host(A) - abc - right click - properties (provide the external
  ip of the instance) and save
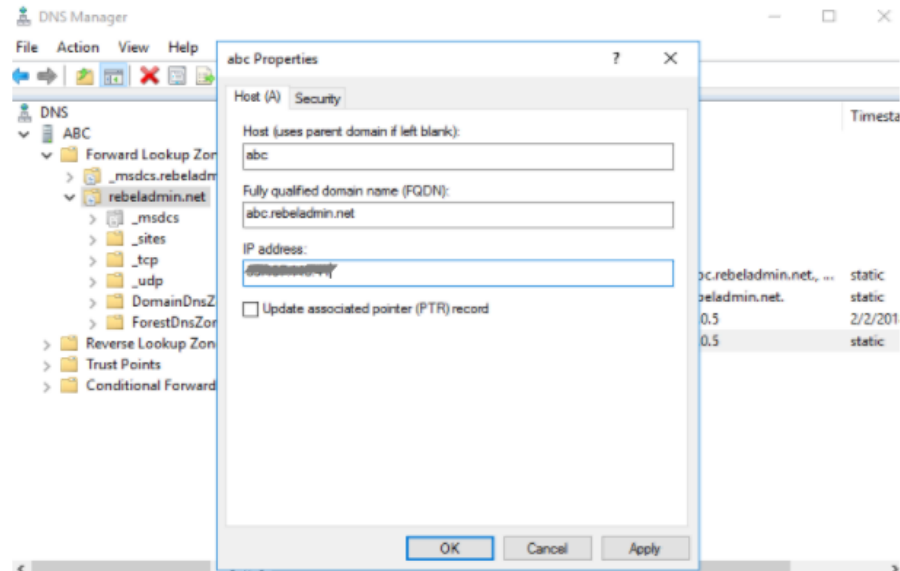
- After editing it will look like this

↑ ()

- Now in Local Computer Add ip (external) address of instance in IPv4 of local machine (the machine that needs to be connected to the server machine using active directory)
  - Open Networking and Sharing Center
  - Right click the network connected with the computer.
  - Goto Properties -> Internet Protocol Version 4 (TCP/IPv4)
  - Select - Use the following DNS server addresses.
    - Enter external ip address of instance(server machine) in Preferred DNS server
    - Enter Google DNS address i.e. 8.8.8.8 in Alternate DNS server

⬆ ()

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Internet Protocol Version 4 (TCP/IPv4) Properties   ✕

General   Alternative Configuration

You can get IP settings assigned automatically if your network supports
this capability. Otherwise, you need to ask your network administrator
for the appropriate IP settings.

◉ Obtain an IP address automatically

○ Use the following IP address:

IP address: [.   .   .   ]

Subnet mask: [.   .   .   ]

Default gateway: [.   .   .   ]

○ Obtain DNS server address automatically

◉ Use the following DNS server addresses:

Preferred DNS server: [▓▓▓▓▓▓▓▓▓▓▓▓]

Alternative DNS server: [8 . 8 . 8 . 8]

☐ Validate settings upon exit   [Advanced...]

                              [OK]   [Cancel]

- Click on OK

- Goto Computer Properties - Change settings - Select Domain
  and type your Domain (ex- rebeladmin.net)

⬆ ()

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Computer Name/Domain Changes   ✕   mote

You can change the name and the membership of this   compute
computer. Changes might affect access to network resources.

Computer name: ary's

DESKTOP-KR8P8KV

Full computer name:
DESKTOP-KR8P8KV

                                          More...   rk ID...

Member of
  ⦿ Domain: nge...
       rebeladmin.net
  ◯ Workgroup:
       WORKGROUP

                    OK   Cancel
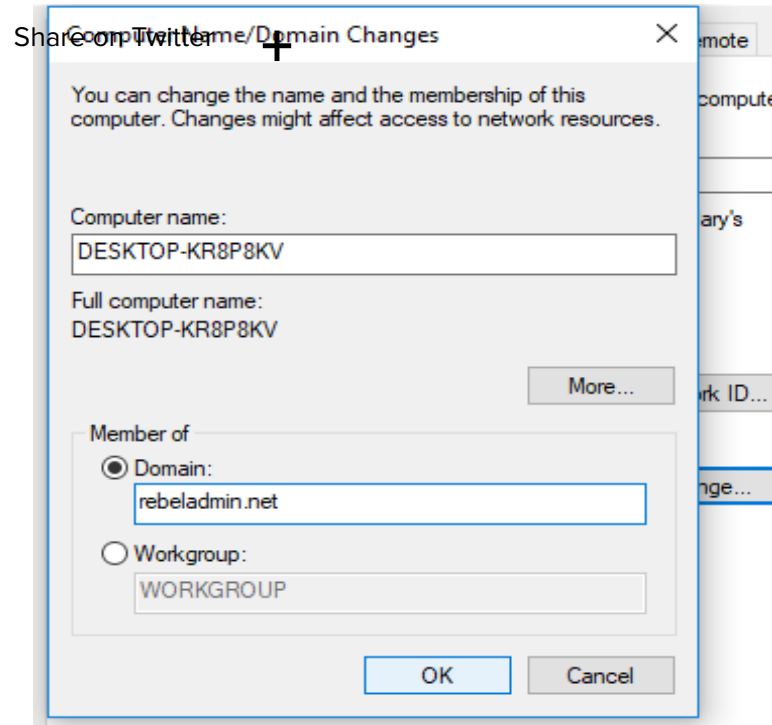
- Click OK. Now it will ask for a username and password. Enter the user created in server machine belonging to Domain Admin group.
- After entering username and password, it will prompt to restart the machine. After restarting, switch user, give username, password and login.

SEE ALSO:
How to Setup a NGINX Load Balancer and Assign Weight to Particular Server (/how-to-setup-a-nginx-load-balancer-and-assign-weight-to-particular-server)
Success Story: Kiran Automobiles Pvt Ltd. (/success-story-kiran-automobiles-pvt-ltd)
Quick View on Catch All Workaround for Office 365 (/quick-view-on-catch-all-workaround-for-office-365)

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