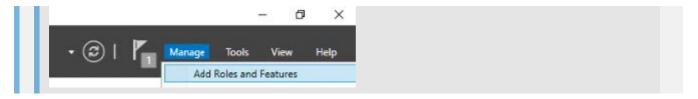
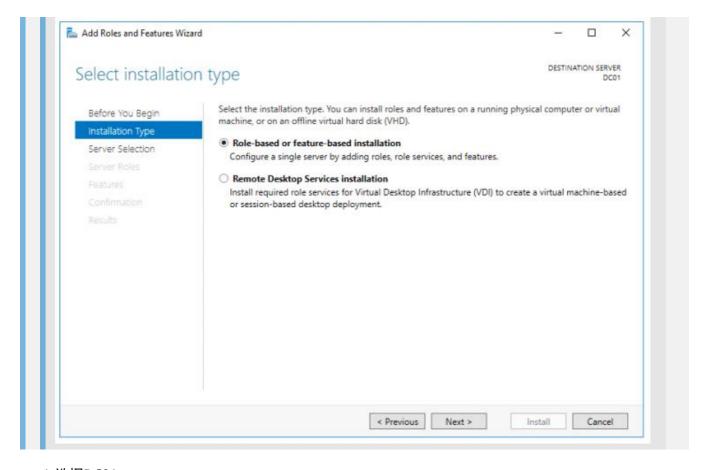
Root-Child Domain Setup

Root Domain

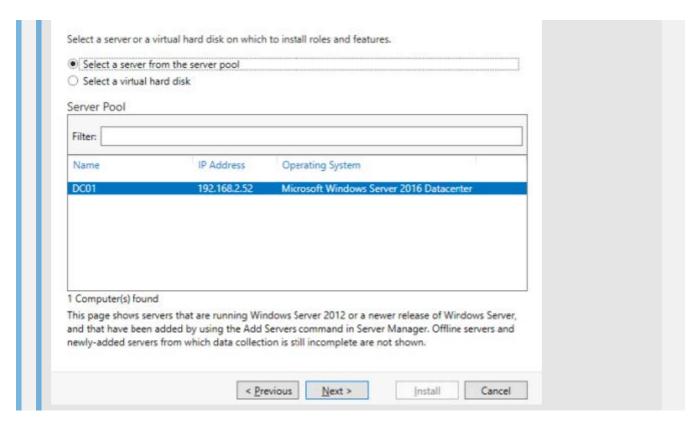
- 1. 部署4台VM: DC01;EX01;DC02;EX02
- 2. 登录DC01, 打开Server Manager, 右上角选择Add Roles and Features



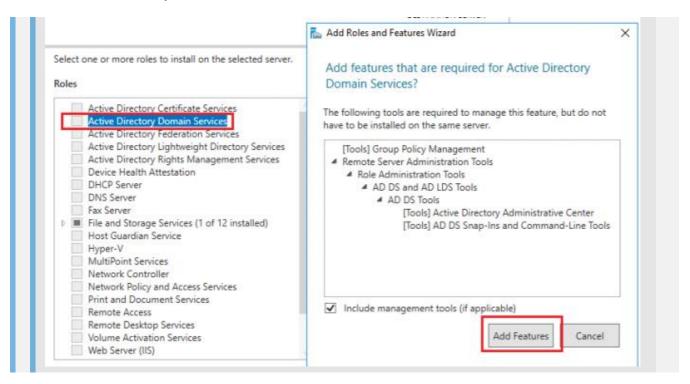
3. 选择Role-based or feature-based installation



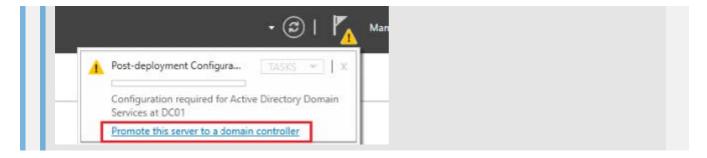
4. 选择DC01



5. 添加Active Directory Domain Services



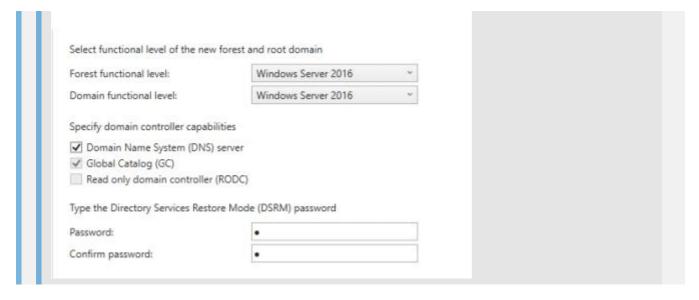
- 6. 全部默认下一步进行安装
- 7. 在Server Manager中点击右上角,Promote this server to a domain controller



8. 选择add a new forest并填入父域名,下一步



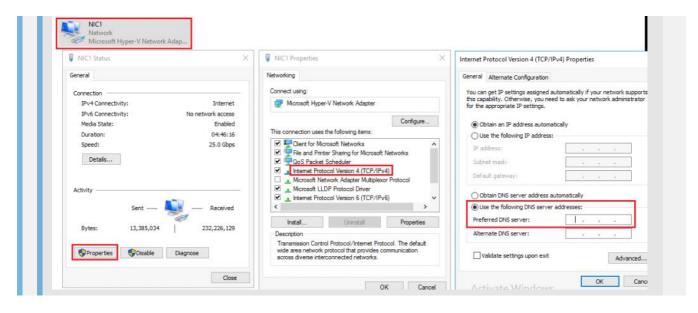
9. 创建DSRM密码,下一步



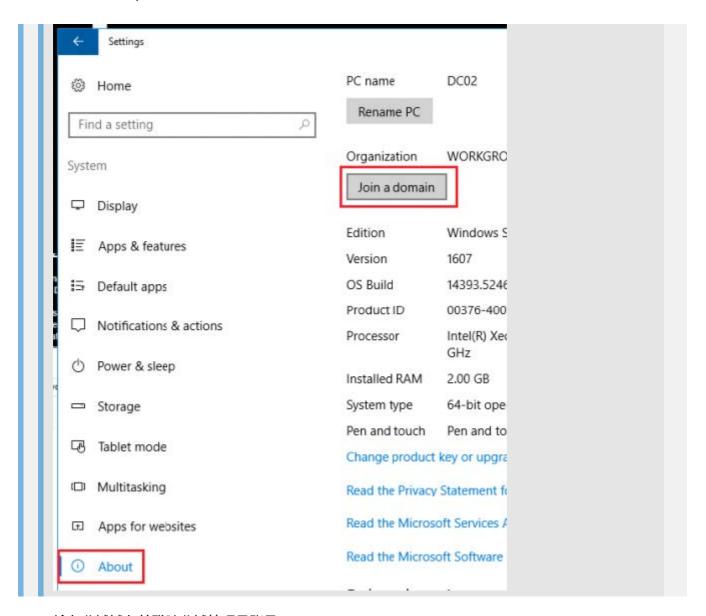
- 10. 全部默认下一步进行安装
- 11. 等待AD进行配置,使用新创建的域重新登录DC01

Child Domain

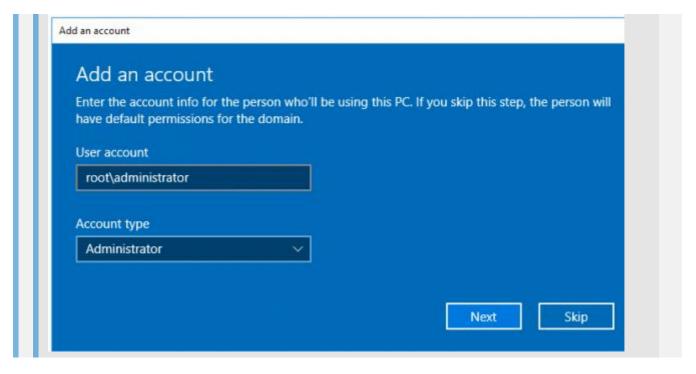
- 1. 登录准备部署子域的DC02
- 2. 打开网卡设置,双击打开,选择Properties,选择IPV4,将DC01的IP地址填入DNS服务器,IP地址网关等填写本机默认



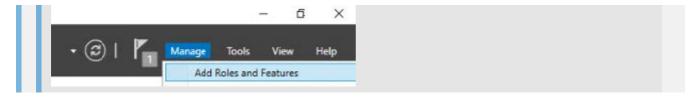
3. 打开设置,导航至System -> About -> Join a domain



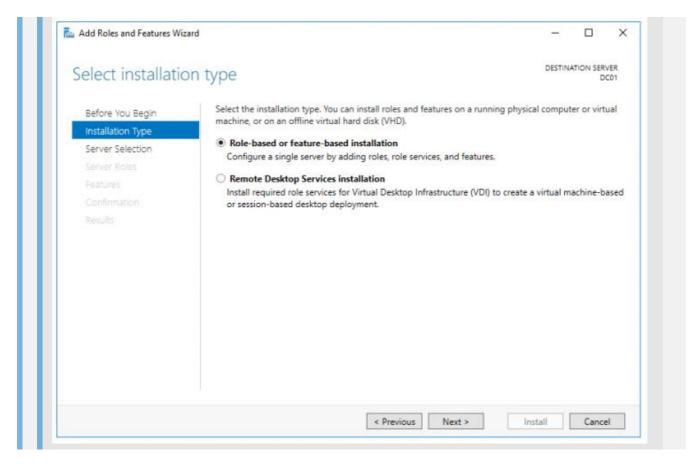
- 4. 输入父域域名并登陆父域管理员账号
- 5. 在本机上添加父域管理员账号并重启电脑完成加父域



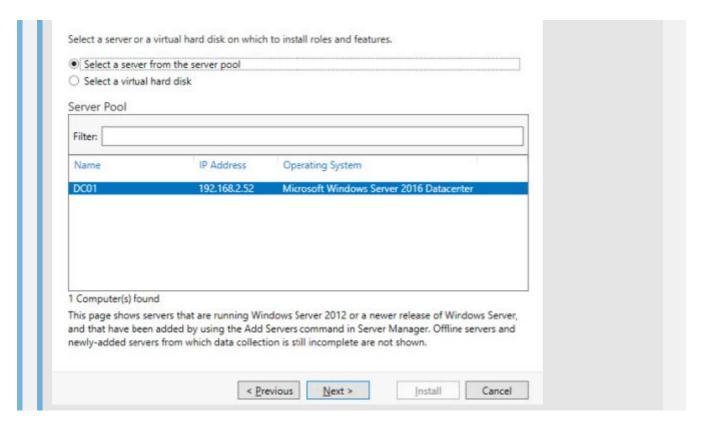
7. 打开Server Manager,右上角选择Add Roles and Features



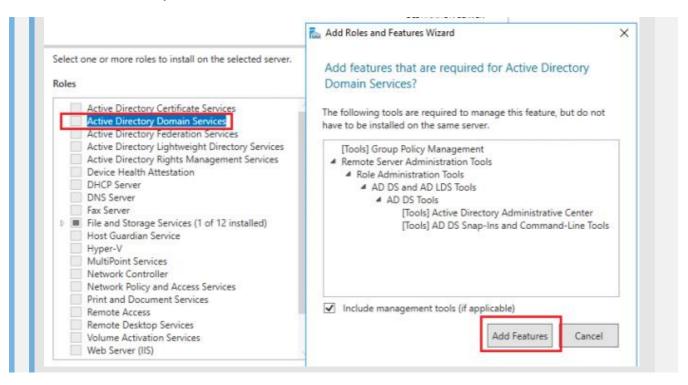
8. 选择Role-based or feature-based installation



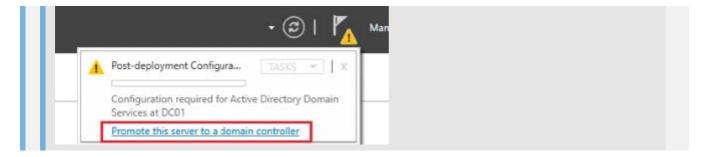
9. 选择DC01



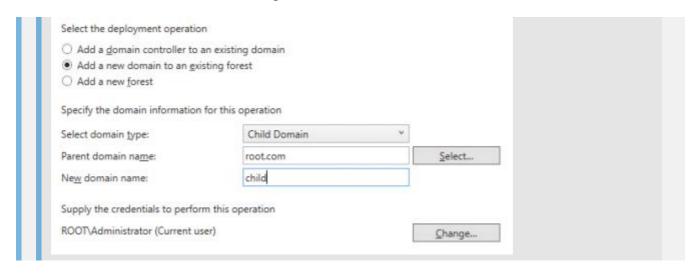
10. 添加Active Directory Domain Services



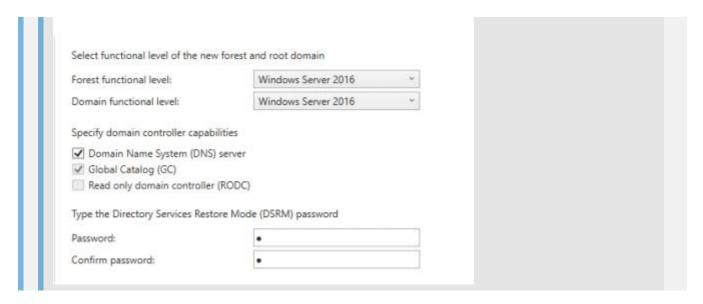
- 11. 全部默认下一步进行安装
- 12. 在Server Manager中点击右上角, Promote this server to a domain controller



13. 选择add a new domain to an existing forest,选择child domain,填入子域域名



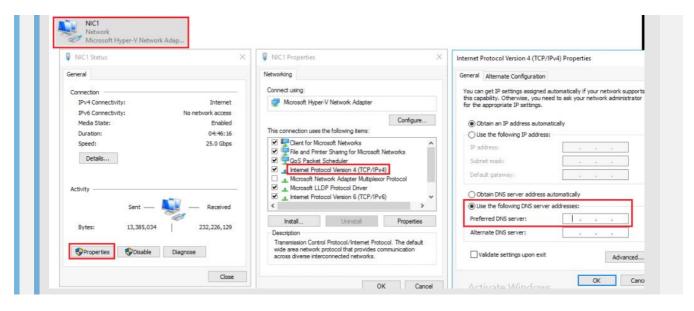
14. 创建DSRM密码,下一步



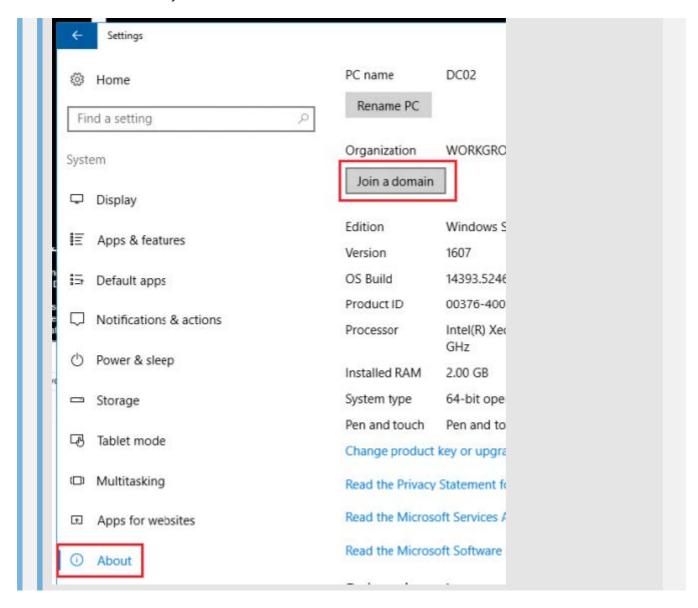
15. 全部默认下一步进行安装

Join Domain

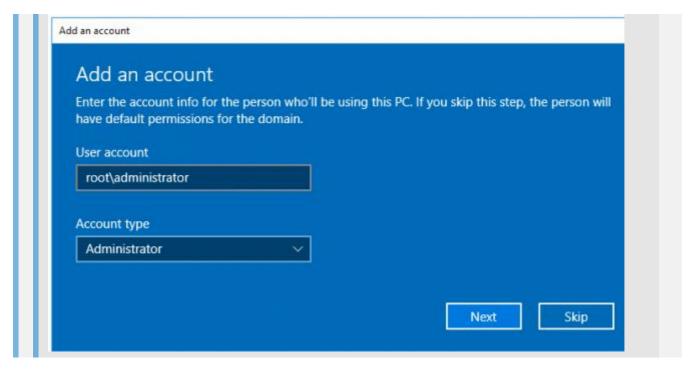
- 1. 登陆EX01
- 2. 打开网卡设置,双击打开,选择Properties,选择IPV4,将DC01的IP地址填入DNS服务器,IP地址网关等填写本机默认



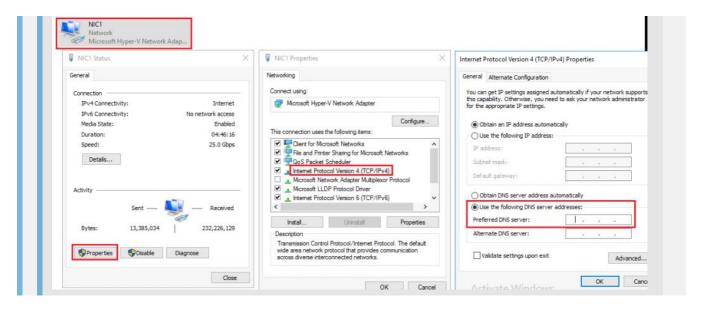
3. 打开设置, 导航至System -> About -> Join a domain



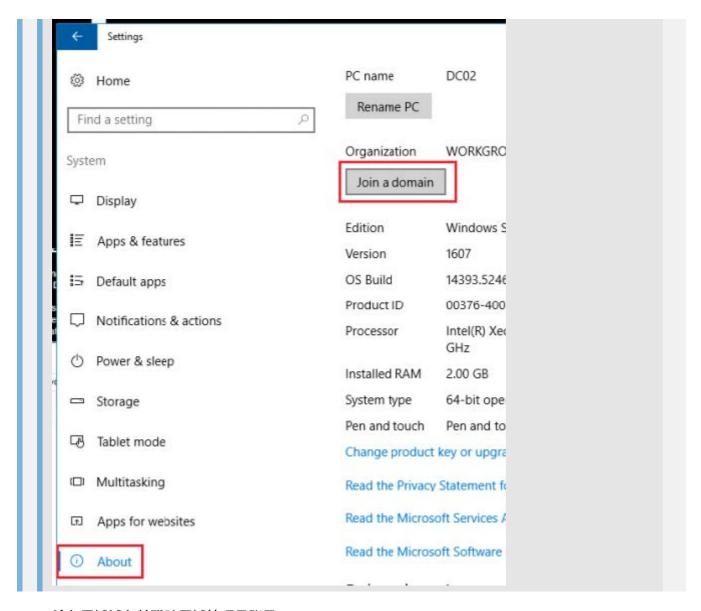
- 4. 输入父域域名并登陆父域管理员账号
- 5. 在本机上添加父域管理员账号并重启电脑完成加父域



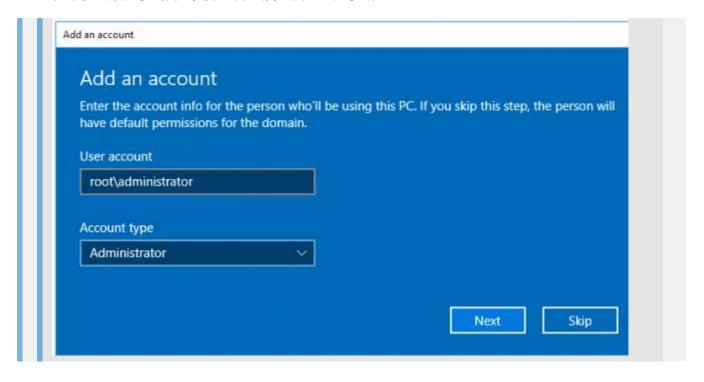
- 6. 登陆EX02
- 7. 打开网卡设置,双击打开,选择Properties,选择IPV4,将DC02的IP地址填入DNS服务器,IP地址网关等填写本机默认



8. 打开设置,导航至System -> About -> Join a domain



- 9. 输入子域域名并登陆子域管理员账号
- 10. 在本机上添加子域管理员账号并重启电脑完成加子域



- 1. 登陆全部服务器
- 2. 下载并安装NET4.8

https://download.visualstudio.microsoft.com/download/pr/014120d7-d689-4305-befd-3cb711108212/0fd66638cde16859462a6243a4629a50/ndp48-x86-x64-allos-enu.exe

- 3. 下载并安装VC++ 2013
- https://aka.ms/highdpimfc2013x64enu
 - 4. 下载并安装IIS URL Rewrite Module
- https://www.iis.net/downloads/microsoft/url-rewrite
 - 5. 下载并安装Microsoft Unified Communications Managed API 4.0, Core Runtime 64-bit
- https://www.microsoft.com/download/details.aspx?id=34992
 - 6. EX服务器使用PowerShell运行以下命令

Install-WindowsFeature NET-Framework-45-Features, Server-Media-Foundation, RPC-over-HTTP-proxy, RSAT-Clustering, RSAT-Clustering-CmdInterface, RSAT-Clustering-Mgmt, RSAT-Clustering-PowerShell, WAS-Process-Model, Web-Asp-Net45, Web-Basic-Auth, Web-Client-Auth, Web-Digest-Auth, Web-Dir-Browsing, Web-Dyn-Compression, Web-Http-Errors, Web-Http-Logging, Web-Http-Redirect, Web-Http-Tracing, Web-ISAPI-Ext, Web-ISAPI-Filter, Web-Lgcy-Mgmt-Console, Web-Metabase, Web-Mgmt-Console, Web-Mgmt-Service, Web-Net-Ext45, Web-Request-Monitor, Web-Server, Web-Stat-Compression, Web-Static-Content, Web-Windows-Auth, Web-WMI, Windows-Identity-Foundation, RSAT-ADDS

- 7. 在所有服务器上下载Exchange镜像,并用PowerShell挂载
- Mount-DiskImage -ImagePath C:\ExchangeServer2016-x64-CU23.ISO

Installation

- 1. 在主DC上运行prepare ad
- E:\Setup.exe /IAcceptExchangeServerLicenseTerms_DiagnosticDataON /PrepareAD /OrganizationName:"TestOrg"
 - 2. 在主DC上运行prepare schema
- E:\Setup.exe /IAcceptExchangeServerLicenseTerms_DiagnosticDataON /PrepareSchema
 - 3. 在主DC上运行prepare 主domain
- E:\Setup.exe /IAcceptExchangeServerLicenseTerms_DiagnosticDataON /PrepareDomain:root.com
 - 4. 在主DC上打开ADUC,找到以下的组并将子域admin添加为成员,添加后需要重新logon生效
- Enterprise Admins; Schema Admins; Organization Management
 - 5. 在子DC上运行prepare 子domain

E:\Setup.exe /IAcceptExchangeServerLicenseTerms_DiagnosticDataON /PrepareDomain:child.root.com

- 6. 重启所有服务器
- 7. 打开父域的ADUC,找到Enterprise Admins; Organization Management; Schema Admins组,添加子域管理员为成员



8. 根据各自Ex服务器所属的域,指定对应DC进行安装

E:\Setup.exe /IAcceptExchangeServerLicenseTerms_DiagnosticDataON /mode:Install /role:Mailbox /DomainController:DCxx