

Login)nge#agrownther "

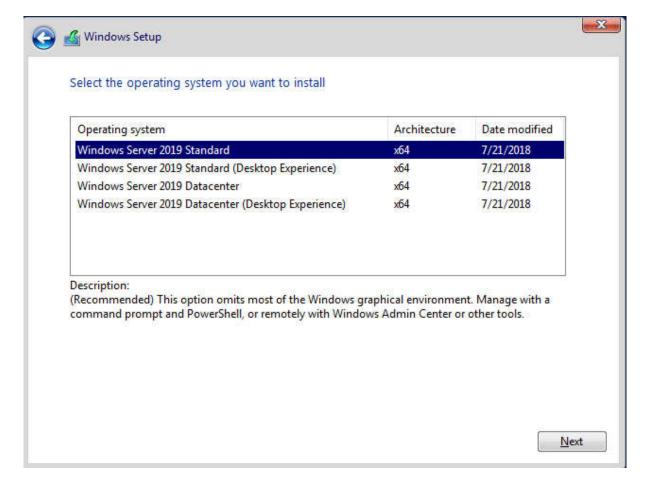
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I have recently started using windows server core version not only to save space it is also use very low memory to run my domain controllers.

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To explore Server 2019 further, we will try to run Active Directory services with Server 2019 Core edition. For the Installation of Server 2019 Core check out this link (select the version shown in the below figure).

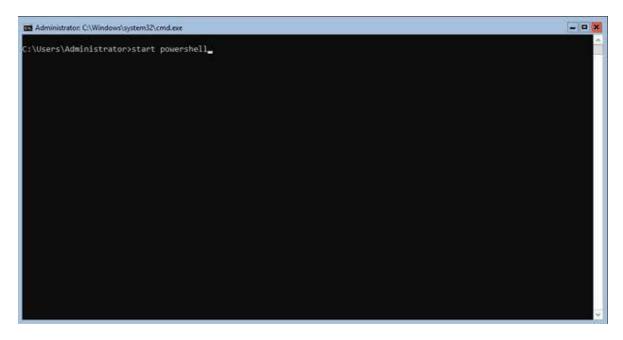


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To install Active Directory, we need to set our Server as per the re Contribute C Ask Question AD.

- Static IP
- Date and Time

This will make sure that everything is set as per the recommendation. Once your server is ready, open the command prompt and type start PowerShell



Then, you need to run the *sconfig command*. This gives you the system details.

```
Disabling Remote Desktop...
        Server Configuration
1) Domain/Workgroup: Workgroup: WORKGROUP
2) Computer Name: WIN-59QM0T03RML
3) Add Local Administrator
4) Configure Remote Management Enabled
5) Windows Update Settings: DownloadOnly
5) Download and Install Updates
7) Remote Desktop: Disabled
) Network Settings
 ) Date and Time
l0) Telemetry settings
1) Log Off User
 2) Restart Server
nter number to select an option:
```

The next step will be to set the static IP for the system.

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By opening PowerShell, type the following commands.

Contribute Ask Question

Get-NetAdapter

This will give the name of the adapter which we will use as the interface alias.

paddress = "10.0.64.2"

\$dnsaddress = "127.0.0.1"

New-NetIPAddress -InterfaceAlias Ethernet -IPAddress -AddressFamily IPv4 -PrefixLength 24

```
C:\Users\Administrator>
C:\Users\Administrator> New-NetIPAddress -InterfaceAlias Ethernet -IPAddress Sipaddress -AddressFamily IPv4 -PrefixLength 24
```

Update DNS

Set-DnsClientServerAddress -InterfaceAlias Ethernet -ServerAddresses \$dnsaddress

```
[tmad]: PS C:\Users\Administrator\Documents> Set-DnsClientServerAddress
```

Once done, restart the server.

Now, let us set the time zone. For that, type the following commands in PowerShell.

Get-timezone

Set-TimeZone -Id "Eastern Standard Time"

```
[tmad]: PS C:\Users\Administrator\Documents> get-timezone
                                  : Pacific Standard Time
: (UTC-08:00) Pacific Time (US & Canada)
DisplayName
                                  : Pacific Standard Time
: Pacific Daylight Time
 laseUtcOffset
                                   -08:00:00
 upportsDaylightSavingTime : True
[tmad]: PS C:\Users\Administrator\Documents> Set-TimeZone -Id"Eastern Standard Time"
[tmad]: PS C:\Users\Administrator\Documents> Set-TimeZone
[tmad]: PS C:\Users\Administrator\Documents> get-timezone
                                  : Eastern Standard Time
DisplayName
DaylightName
                                  : (UTC-05:00) Eastern Time (US & Canada)StandardName
: Eastern Daylight Time
                                                                                                                          : Eastern Standard Time
  seutcoffset
                                   : -05:00:00
  pportsDaylightSavingTime : True
```

We can do the installation in two ways here.

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• Windows Admin Center (this will help you to install roles and Contribute Ask Question

Using Windows Admin Center

For Windows Admin Center, we need to set up and add a server (Follow Link).

Once the server is connected to Windows Admin Center, you need to connect the server.



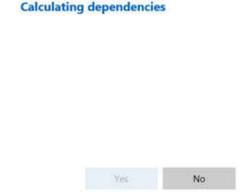
Once the server is connected, you will find the overview of the system utilization page.



On the left side tools, you have to select Roles & features. Now you can select whichever role you need to install and click Install.

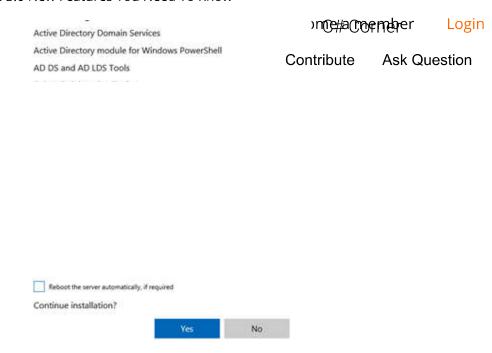
This will start checking dependencies

Install Roles and Features

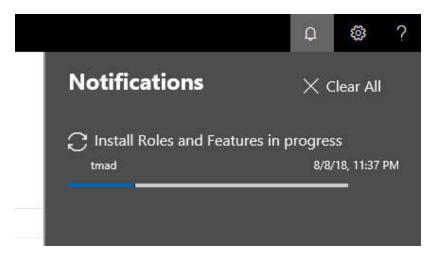


It will give you a list of the roles you are going to install.





You will find a notification window with a progress update there.



Using PowerShell

PowerShell Command to start creating Domain Controller

Get-WindowsFeature AD-Domain-Service | Install-WindowsFeature

```
C:\Users\Administrator>
C:\Users\Administrator> Get-WindowsFeature AD-Domain-Service | Install-WindowsFeature
```

Import-Module ADDSDeplyoment

Install-ADDSForest

```
C:\Users\Administrator>
C:\Users\Administrator> Get-WindowsFeature AD-Domain-Service | Install-WindowsFeature
```



This will ask you for the Domain Name and SafeMode password. Make sure you write this down in a safe place. It will be very useful in case of disaster recovery.

You can select Y or A as an answer to the question.

While installation is going on you will see some warning.

```
findows PowerShell opporation. All rights reserved
                                               NoChangeNeeded ()
              get server will be configured as a domain controller and restarted when this operation is complete, want to continue with this operation?

[A] Yes to All [N] No [L] No to All [S] Suspend [?] Help (default is "Y"); y
Windows Server 2019 domain controllers have a default for the security setting named "Allow crypt associatible with Windows NT 4.0" that prevents weaker cryptography algorithms when establishing sessions.
           re information about this setting, see Knowledge Base article 942564
//go.microsoft.com/fwlink/?LinkId=104751).
  8 A 8 C C B 0 1 1 7 # 8 B
```

Once everything is done the server will reboot automatically.

Once a server is ready we will create a new Admin user which helps admin to do day to day work.

New-ADUser –Name "Helpdesk" – GivenName Help –Surname Desk –SamAccountName Helpdesk UserPrincipalName Helpdesk@teammicro.dom

To verify the user details:

Get-ADUser Helpdesk

C#Corn

.NET Core 3.0 New Features You Need To Know

```
Windows PowerShell
Copyright (C) Microsoft Corporation. All rights reserved.

PS C:\Users\Administrator> New-ADUser - Name "Helpdesk" - GivenName Help - Surname Desk

[palkinne Helpdesk@teammicro.dom
PS C:\Users\Administrator> Get-ADUser

Ask Question
```

```
Get-ADUser : Error pansing query: '?' Error Message: 'syntax error' at position: '1'.

At line:1 char:1

Get-ADUser

+ CategoryInfo

+ FullyqualifiedErrorid : ActiveDirectoryCmdlet:Microsoft.ActiveDirectory.Management.ADFilterParsingException,Microsoft.ActiveDirectory.Management.Commands.GetADUser

PS C:\Users\Administrator> Get-ADUser Helpdesk

DistinguishedName : CN-Helpdesk,CN-Users,DC-teammicro,DC-dom
Enabled : False
GivenName : Help
Name : Helpdesk
ObjectClass : user
ObjectClass : user
ObjectGUIO : bbb7158e-beb1-46c1-baf4-94261283d357
SamAccountName : Helpdesk
SID : S-1-S-21-3721937744-1341734537-3773984513-1183
Surname : Desk
UserPrincipalName : Helpdesk@teammicro.dom
```

You will find the user is not active yet. Before enabling the user, set the password for that user.

Command to set password:

Set-ADAccountPassword 'CN=Helpdesk,CN=users,DC=Teammicro,DC=Dom' -Reset -NewPassword (ConvertTo-SecureString -AsPlainText "Test@123" -Force)

```
PS C:\Users\Administrator> Set-ADAccountPassword 'CN-Helpdesk,CN-users,DC-Teammicro,DC-Dom' -Reset -NewPassword (Convert
To-SecureString -AsplainText "Test@123" -Force)
PS C:\Users\Administrator> _
```

Enable the AD user

Enable-ADAccount -Identity Helpdesk

```
PS C:\Users\Administrator> Enable-ADAccount -Identity Helpdesk
PS C:\Users\Administrator> _
```

Add the user to Domain Admins group

Add-AdGroupMember 'Domain Admins' Helpdesk

```
PS C:\Users\Administrator> Add-ADGroupMember 'Domain Admins' Helpdesk
PS C:\Users\Administrator> _
```

Now it will configure over Active Directory and be ready for use.



We have covered installation of Active Directory on server 2019 core.

I hope this will help you and save you time when you create your own AD services.

Feel free to ask any questions.

Thank you for reading.

Next Recommended Article

Step By Step Installation Of Windows Server 2019 Standard

Windows Server 2019 Preview Build 17692 Available for IT personnel to explore. Today we will install Windows Server 2019 Standard on Hyper-V. As Microsoft has only issued this for insider preview only will use system requirements as per windows server 2016.

Active Directory Installation Of Active Directory On Windows Server Server

Windows Server 2019 Core



Krunal Barot 10P 1000

Microsoft Certified Server Administrator with 12+ years of experience as Infrastructure and Server Administrator. Experience with virtualization, Backup, and disaster system. Hand-on experience working with a different p... Read more

https://www.c-sharpcorner.com/members/krunal-barot2

833 222.2k



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Type your comment here and press Enter Key (Minimum 10 cha. Contribute

Ask Question

0



Hi, the command Import-Module ADDSDeplyoment give me a error, impossibile to find a module...its' normal?

Francesco Baldassarri

Oct 29, 2019

1874 2 0

Reply



Try Get-WindowsFeature AD-Domain-Service | Install-WindowsFeature -name AD-Domain-Services -IncludeManagementTools

Krunal Barot

Oct 30, 2019

833 1.5k 222.2k



Appreciate the article and time time it took to write it up. One bit of feedback. The steps appear to be missing: Get-WindowsFeature AD-Domain-Service | Install-WindowsFeature -IncludeManagementTools. When I tried to import the ad module it was unable to find it without including the -IncludeManagmentTools

David Smith

Feb 23, 2019

1871 5 0

1 Reply



Thank you for pointing out the error.

Krunal Barot

Oct 30, 2019

833 1.5k 222.2k

0



Thanks for the tutorial! Quick question, why use powershell to set IP and Time zone instead of sconfig?

Rob Taylor-Shaw

Jan 02, 2019

1874 2 0

1 Reply



for basic system setting like System name, IP, Domain join, Date and time setting you can always use Sconfig. here I am using core server as its better to start using command or powershell. its easier that way as well. appreciate your question.

Krunal Barot

Jan 03, 2019

833 1.5k 222.2k

0



Thanks for sharing

Hadshana Kamalanathan

Aug 16, 2018

140 14.3k 374.8k

Reply

2



Thank you...

Krunal Barot

Aug 19, 2018

833 1.5k 222.2k

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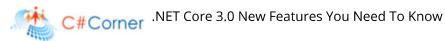
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