

Power shell to install DC and ADC

Import-Module ActiveDirectory

Add-WindowsFeature RSAT-AD-PowerShell

get-windowsfeature

```
> get-windowsfeature
```

Display Name	Name	Install State
[] Active Directory Certificate Services	AD-Certificate	Available
[] Certification Authority	ADCS-Cert-Authority	Available
[] Certificate Enrollment Policy Web Service	ADCS-Enroll-Web-Pol	Available
[] Certificate Enrollment Web Service	ADCS-Enroll-Web-Svc	Available
[] Certification Authority Web Enrollment	ADCS-Web-Enrollment	Available
[] Network Device Enrollment Service	ADCS-Device-Enrollment	Available
[] Online Responder	ADCS-Online-Cert	Available
[] Active Directory Domain Services	AD-Domain-Services	Available
[] Active Directory Federation Services	ADFS-Federation	Available
[] Active Directory Lightweight Directory Services	ADLDS	Available
[] Active Directory Rights Management Services	ADRMS	Available
[] Active Directory Rights Management Server	ADRMS-Server	Available
[] Identity Federation Support	ADRMS-Identity	Available

install-windowsfeature AD-Domain-Services

```
PS C:\Users\genadmin> install-windowsfeature AD-Domain-Services
```

63%
[oo]

Success	Restart Needed	Exit Code	Feature Result
True	No	Success	{Active Directory Domain Services, Active ...

Import-Module ADDSDeployment

Install-ADDSForest

- CreateDnsDelegation:\$false `
- DatabasePath "C:\Windows\NTDS" `
- DomainMode "Win2016" `
- DomainName "DOT.com" `
- DomainNetbiosName "DOT" `
- ForestMode "Win2016" `
- InstallDns:\$true `
- LogPath "C:\Windows\NTDS" `
- NoRebootOnCompletion:\$false `
- SysvolPath "C:\Windows\SYVOL" `
- Force:\$true

```

> Install-ADDSForest

cmdlet Install-ADDSForest at command pipeline position 1
Supply values for the following parameters:
DomainName: OnCompletion:$false
SafeModeAdministratorPassword: *****
Confirm SafeModeAdministratorPassword: *****
Input and confirm input for SafeModeAdministratorPassword do not match. Please try again.
SafeModeAdministratorPassword: *****
Confirm SafeModeAdministratorPassword: *****

The target server will be configured as a domain controller and restarted when this operation is complete.
Do you want to continue with this operation?
[Y] Yes [A] Yes to All [N] No [L] No to All [S] Suspend [?] Help (default is "Y"): y
WARNING: Windows Server 2016 domain controllers have a default for the security setting named "Allow cryptography
algorithms compatible with Windows NT 4.0" that prevents weaker cryptography algorithms when establishing security
channel sessions.

For more information about this setting, see Knowledge Base article 942564
(http://go.microsoft.com/fwlink/?LinkId=104751).

-----
Message
-----
Verification of prerequisites for Domain Controller promotion failed. The domain DNS name "OnCompletion:$false ``" ha...

PS C:\Users\genadmin> -CreateDnsDelegation:$false `
>> -DatabasePath "C:\Windows\NTDS"
>> -DomainMode "win2016"
>> -DomainName "DOT.com"
>> -DomainNetbiosName "DOT"
>> -ForestMode "win2016"
>> -InstallDns:$true
>> -LogPath "C:\Windows\NTDS"
>> -NoReboot


```

View basic information about your computer

Windows edition

Windows Server 2016 Datacenter

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System

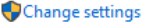
Processor: Intel(R) Xeon(R) CPU E5-2673 v4 @ 2.30GHz 2.29 GHz

Installed memory (RAM): 8.00 GB

System type: 64-bit Operating System, x64-based processor

Pen and Touch: No Pen or Touch Input is available for this Display

Computer name, domain, and workgroup settings

Computer name: fctest1 

Full computer name: fctest1.DOT.com

Computer description:

Domain: DOT.com

Add-WindowsFeature AD-Domain-Services

```

PS C:\> Add-WindowsFeature AD-Domain-Services

Success Restart Needed Exit Code      Feature Result
-----
True      No                Success      {Active Directory Domain Services, Active ...

```

```

Install-ADDSDomainController -CreateDnsDelegation:$false -DatabasePath 'C:\Windows\NTDS' -
DomainName 'DOT.com' -InstallDns:$true -LogPath 'C:\Windows\NTDS' -NoGlobalCatalog:$false -
SiteName 'Default-First-Site-Name' -SysvolPath 'C:\Windows\SYSVOL' -NoRebootOnCompletion:$true -
Force:$true

```

```

PS C:\> Install-ADDSDomainController -CreateDnsDelegation:$false -DatabasePath '
C:\Windows\NTDS' -DomainName 'mikefrobbins.com' -InstallDns:$true -LogPath 'C:\W
indows\NTDS' -NoGlobalCatalog:$false -SiteName 'Default-First-Site-Name' -Sysvol
Path 'C:\Windows\SYSVOL' -NoRebootOnCompletion:$true -Force:$true
SafeModeAdministratorPassword: *****
Confirm SafeModeAdministratorPassword: *****
WARNING: Windows Server 2012 domain controllers have a default for the security
setting named "Allow cryptography algorithms compatible with Windows NT 4.0"
that prevents weaker cryptography algorithms when establishing security channel
sessions.

For more information about this setting, see Knowledge Base article 942564
(http://go.microsoft.com/fwlink/?LinkId=104751).

WARNING: A delegation for this DNS server cannot be created because the
authoritative parent zone cannot be found or it does not run Windows DNS
server. If you are integrating with an existing DNS infrastructure, you should
manually create a delegation to this DNS server in the parent zone to ensure
reliable name resolution from outside the domain "mikefrobbins.com". Otherwise,
no action is required.

WARNING: Windows Server 2012 domain controllers have a default for the security
setting named "Allow cryptography algorithms compatible with Windows NT 4.0"
that prevents weaker cryptography algorithms when establishing security channel
sessions.

For more information about this setting, see Knowledge Base article 942564
(http://go.microsoft.com/fwlink/?LinkId=104751).

WARNING: A delegation for this DNS server cannot be created because the
authoritative parent zone cannot be found or it does not run Windows DNS
server. If you are integrating with an existing DNS infrastructure, you should
manually create a delegation to this DNS server in the parent zone to ensure
reliable name resolution from outside the domain "mikefrobbins.com". Otherwise,
no action is required.

Message                Context                RebootRequired        Status
-----
You must restart... DCPromo.General.2        True                   Success

```

<https://docs.microsoft.com/en-us/powershell/module/addsdeployment/install-addsdomain?view=win10-ps>

[https://docs.microsoft.com/en-us/powershell/module/addsdeployment/install-addsdomaincontroller?view=win10-ps`](https://docs.microsoft.com/en-us/powershell/module/addsdeployment/install-addsdomaincontroller?view=win10-ps)