Build Domain Controller on Azure Tenant

Setup and Configure AD and DNS

In this section we will figure out how **MOBILITYDC** will be installed and configured with the following roles:

- Active Directory Federation Services

- DNS

Some Useful info for the VM and related components.

Cloud Service Name: maqovcs1

Virtual Net Name: maqovvnetmobility

Subnet Name: Subnet-1

Virtual Network Range: 10.1.1.0/24

VM Static IP (DIP): 10.1.1.1

Local Admin: maqov

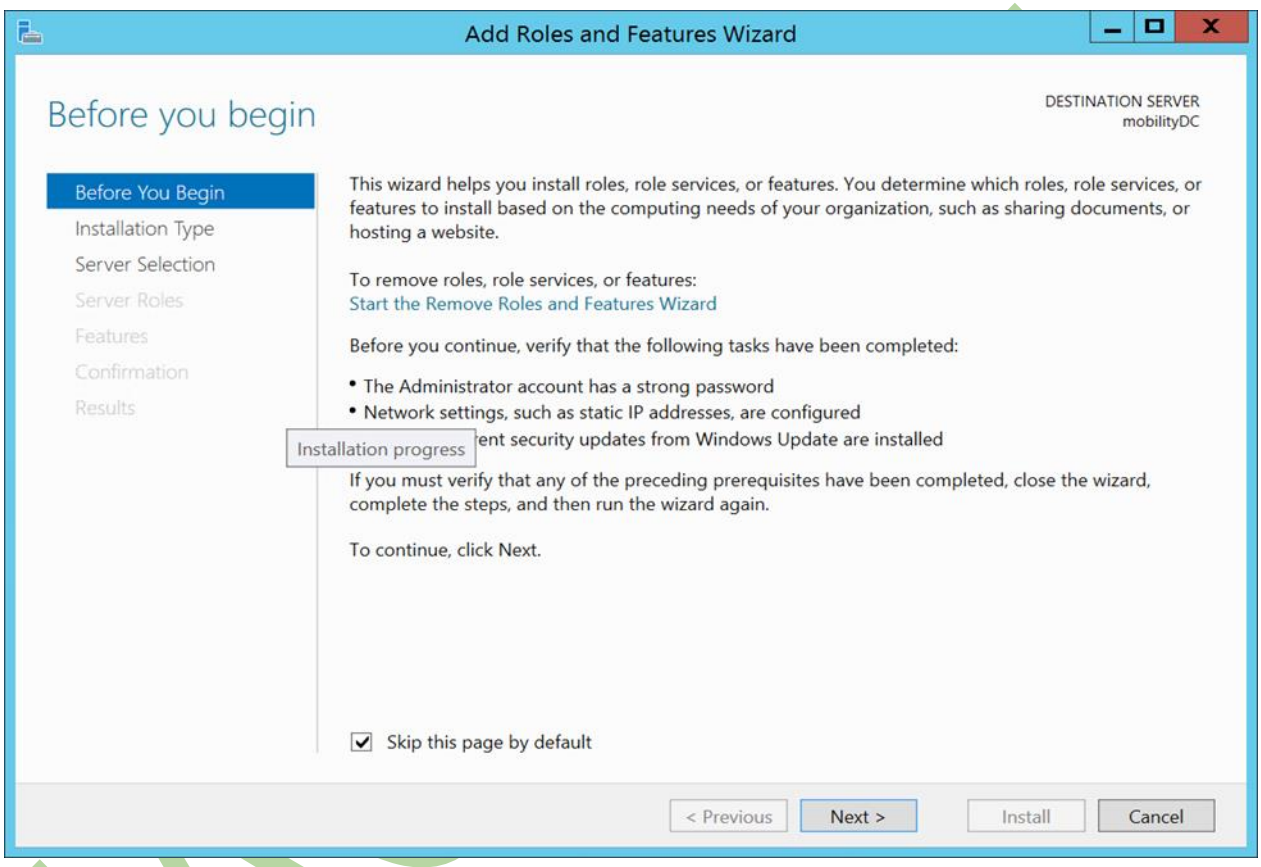
maqov.org

Create Virtual machine "MobilityDC" on Azure

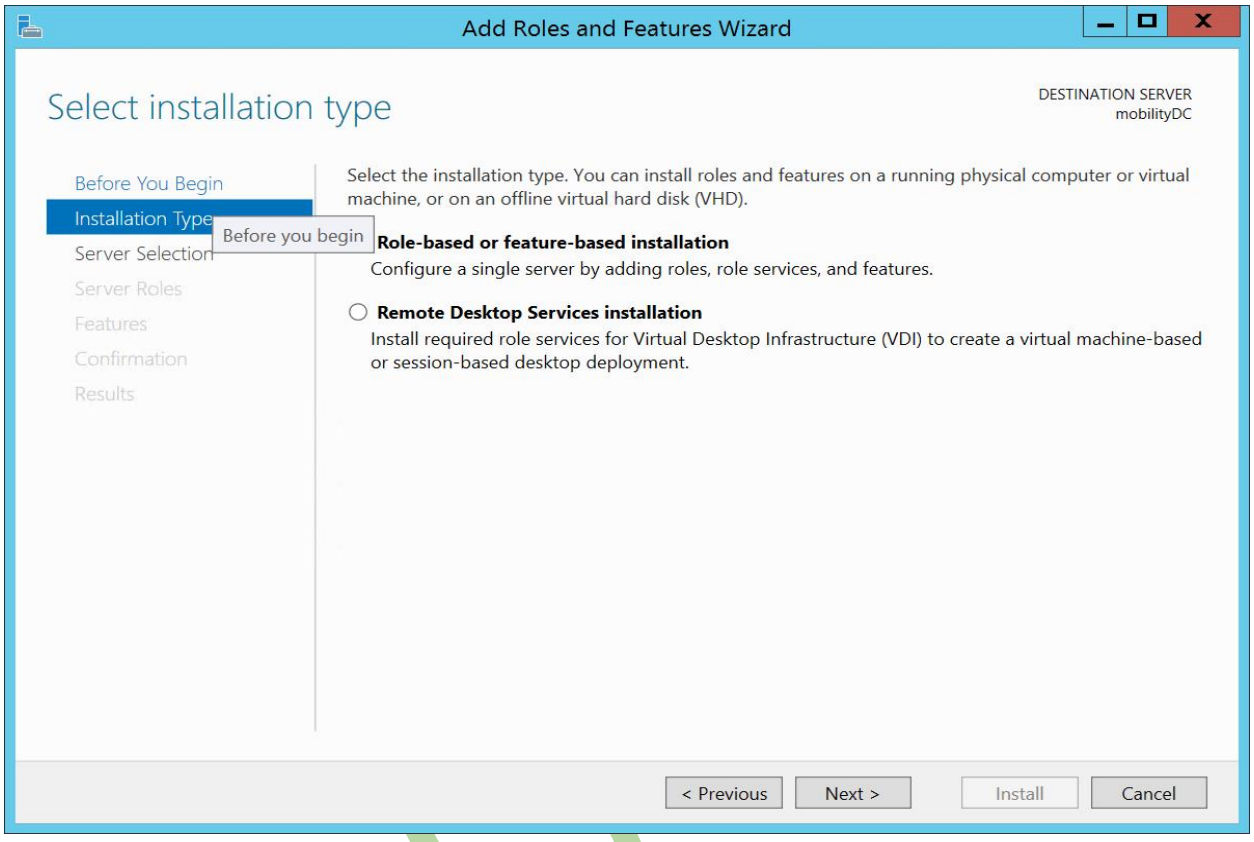
```
Add-AzureAccount

$family="Windows Server 2012 R2 Datacenter"
$image=Get-AzureVMImage | where { $_.ImageFamily -eq $family } | sort PublishedDate -Descending
| select -ExpandProperty ImageName -First 1

$vmname="mobilityDC"
$vmsize="Medium"
$vm1=New-AzureVMConfig -Name $vmname -InstanceSize $vmsize -ImageName $image

$cred=Get-Credential -Message "Type the name and password of the local administrator account."
$vm1 | Add-AzureProvisioningConfig -Windows -AdminUsername $cred.GetNetworkCredential().Username
-Password $cred.GetNetworkCredential().Password


$vm1 | Set-AzureSubnet -SubnetNames "Subnet-1"

$vm1 | Set-AzureStaticVNetIP -IPAddress 10.1.1.1

$disksize=20
$disklabel="Mydiskone"
$lun=0
$hcaching="None"
$vm1 | Add-AzureDataDisk -CreateNew -DiskSizeInGB $disksize -DiskLabel $disklabel -LUN $lun -
HostCaching $hcaching

$svcname="maqovcs1"
$vnetname="maqovvnetmobility"
New-AzureVM -ServiceName $svcname -VMs $vm1 -VNetName $vnetname
```

MobilityDC: Configure Active Directory Domain Services

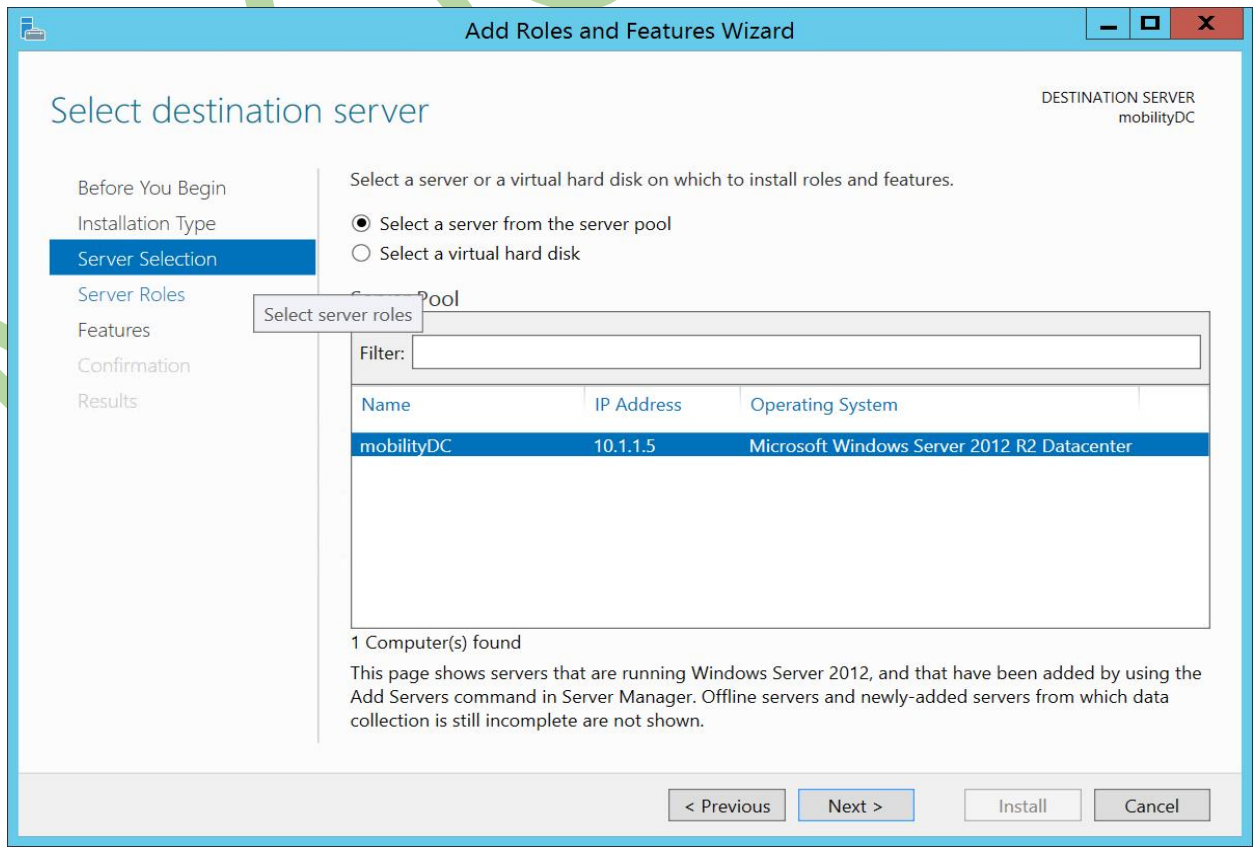
1. Select Virtual Machines
2. Select **MOBILITYDC** and click Connect at the bottom of the screen.
3. Logon to **MOBILITYDC** with **MAQOV** with the password *********
4. Open **Server Manager**
5. Under Manage in the top right of the screen click **Add Roles and Features**
6. In Before You Begin click **Next**



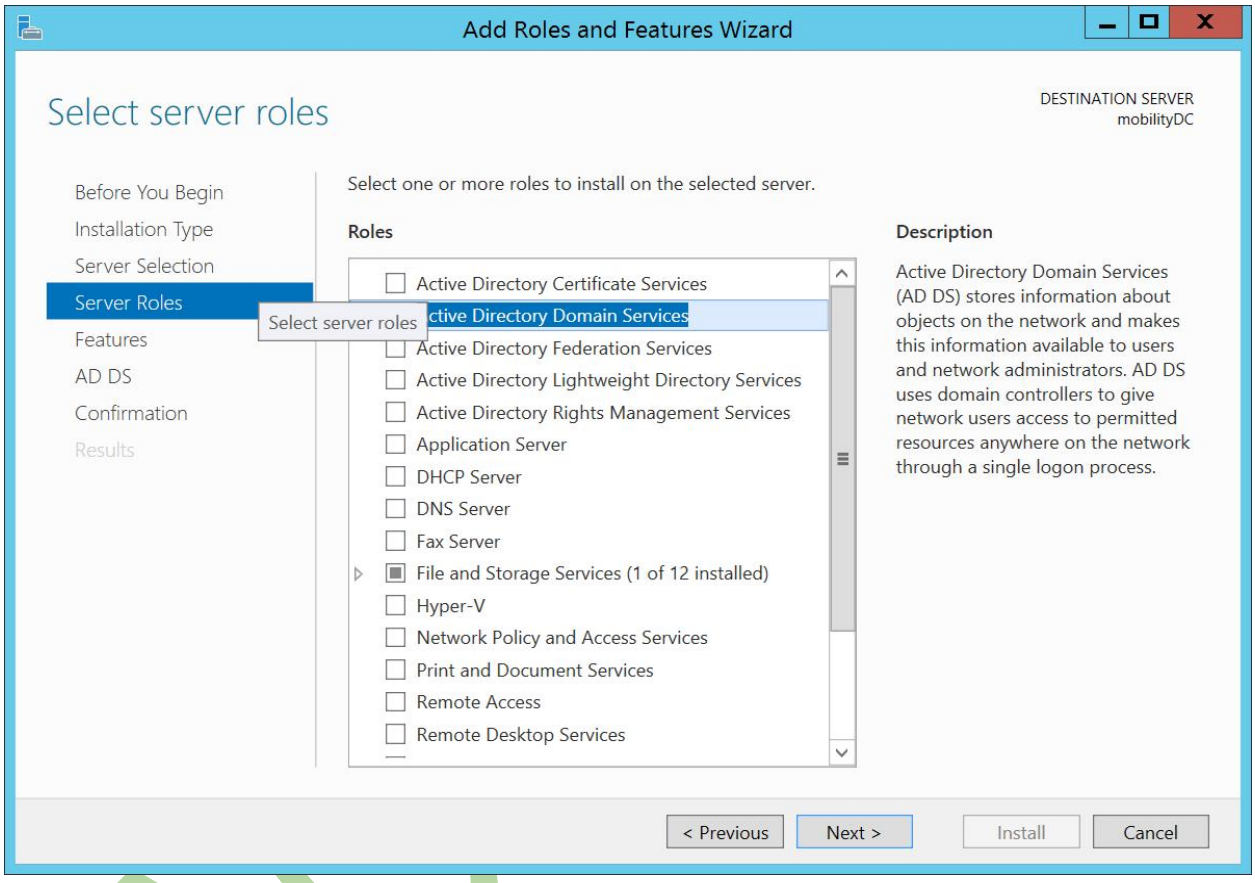
7. In Installation Type click Role-based or feature-based installation and click **Next**



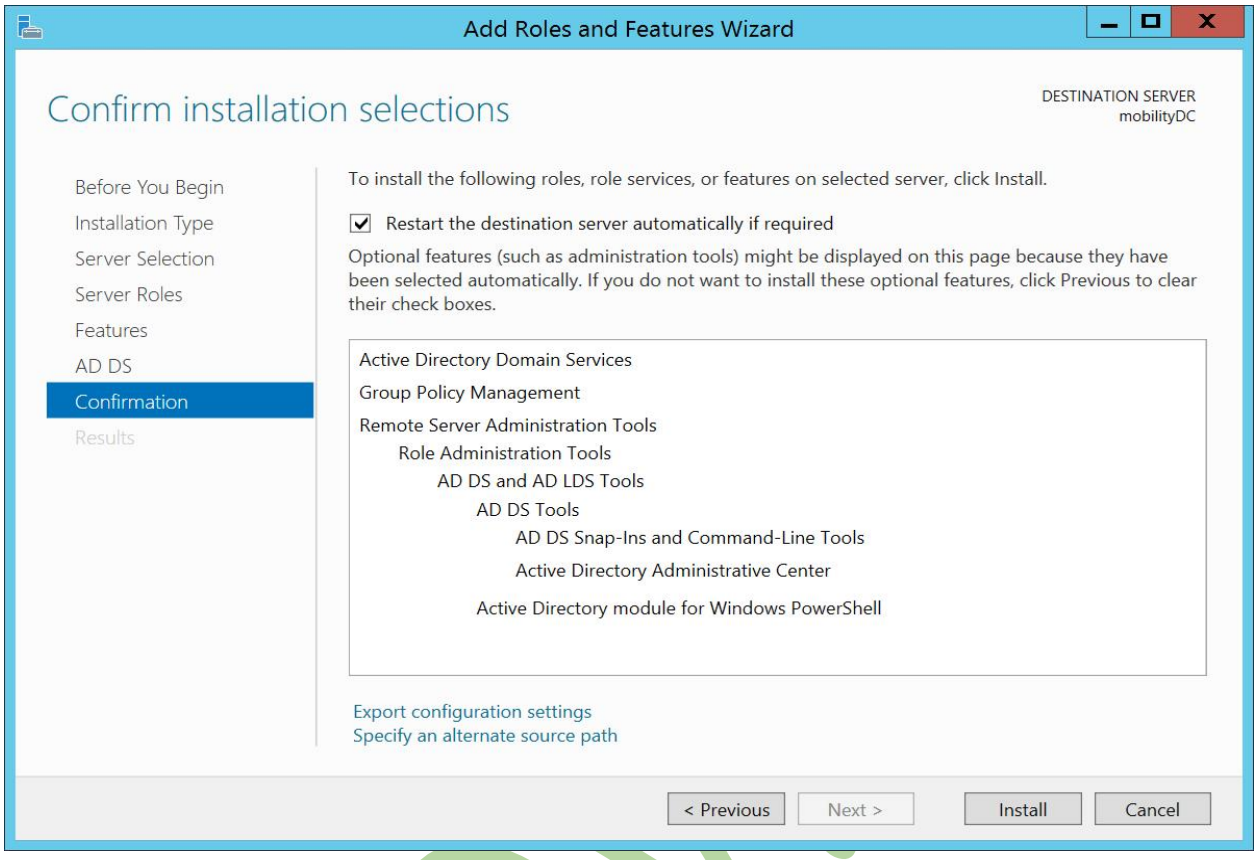
8. In Server Selection make sure **MOBILITYDC** is selected and click **Next**



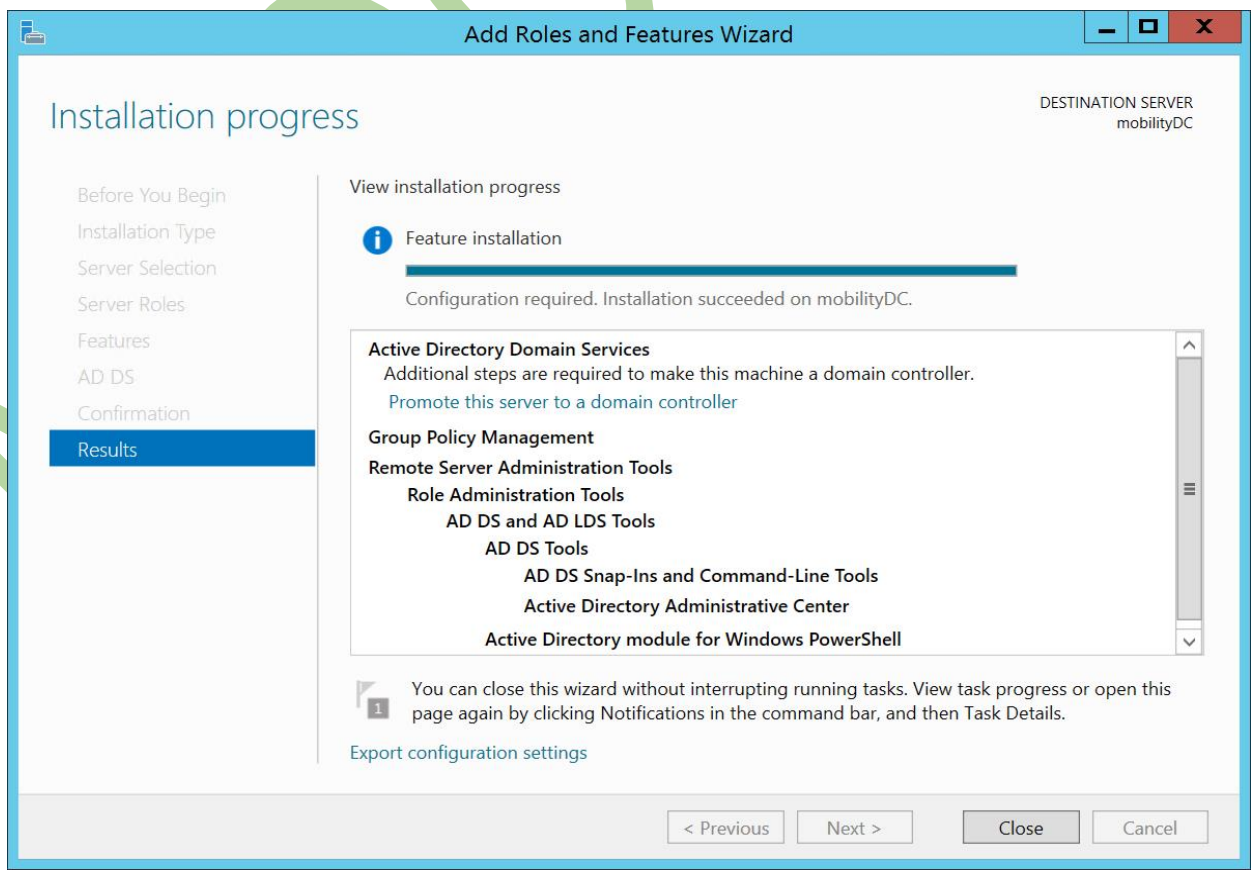
9. In Server Roles click **Active Directory Domain Services**



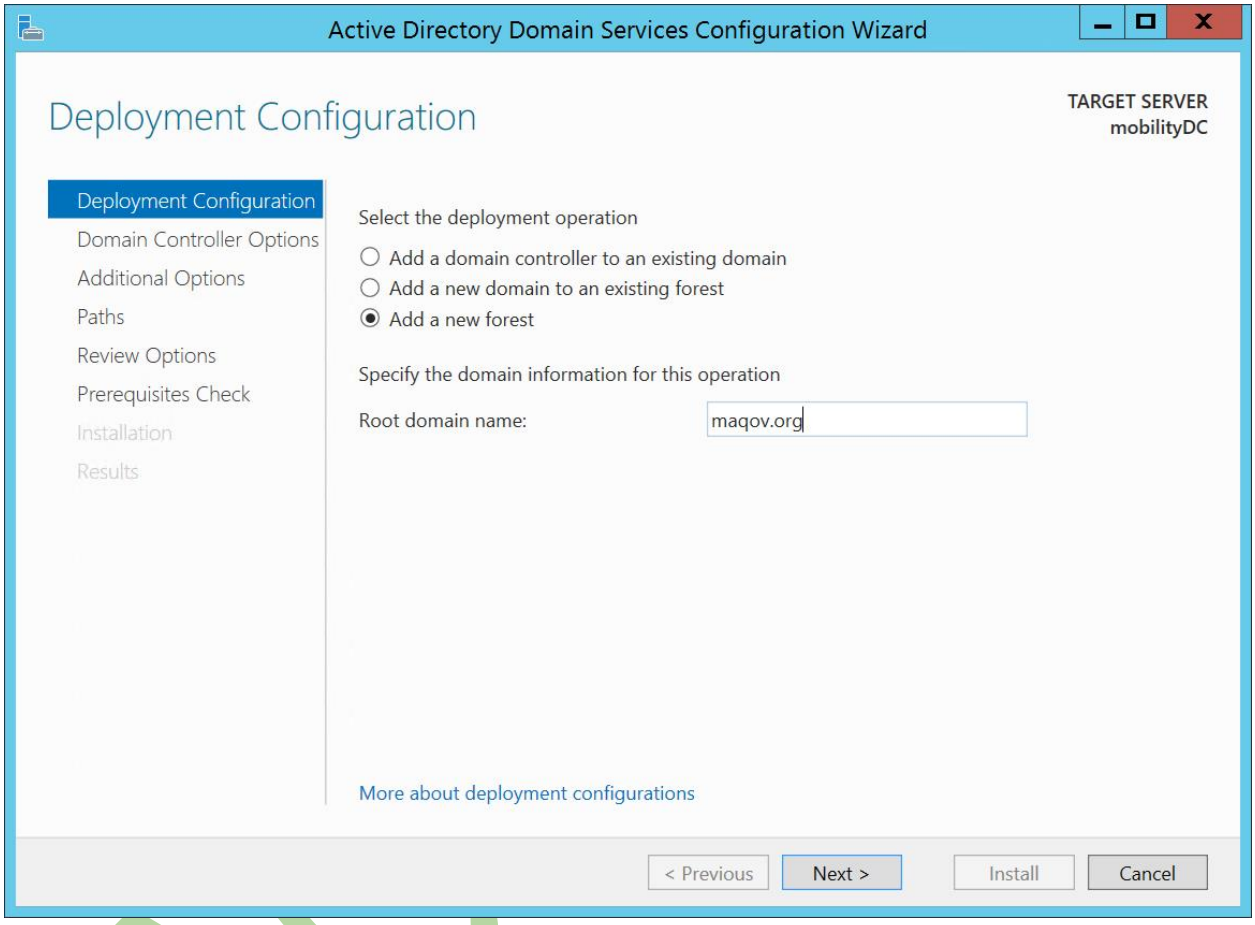
10. When the Add Roles and Features for Active Directory Domain Services Window appears click **Add Features** Select **Next**
11. In the **Active Directory Domain Services** window click **Next**
12. In the Confirmation windows click **Install**



13. Wait till the Feature installation has finished and click Promote this server to a domain controller in the wizard window.



14. **Promote to a domain controller**
15. In the **Deployment Configuration** step click Add new Forest and type "**maqov.org**" in the Root Domain name field. Select **Next**



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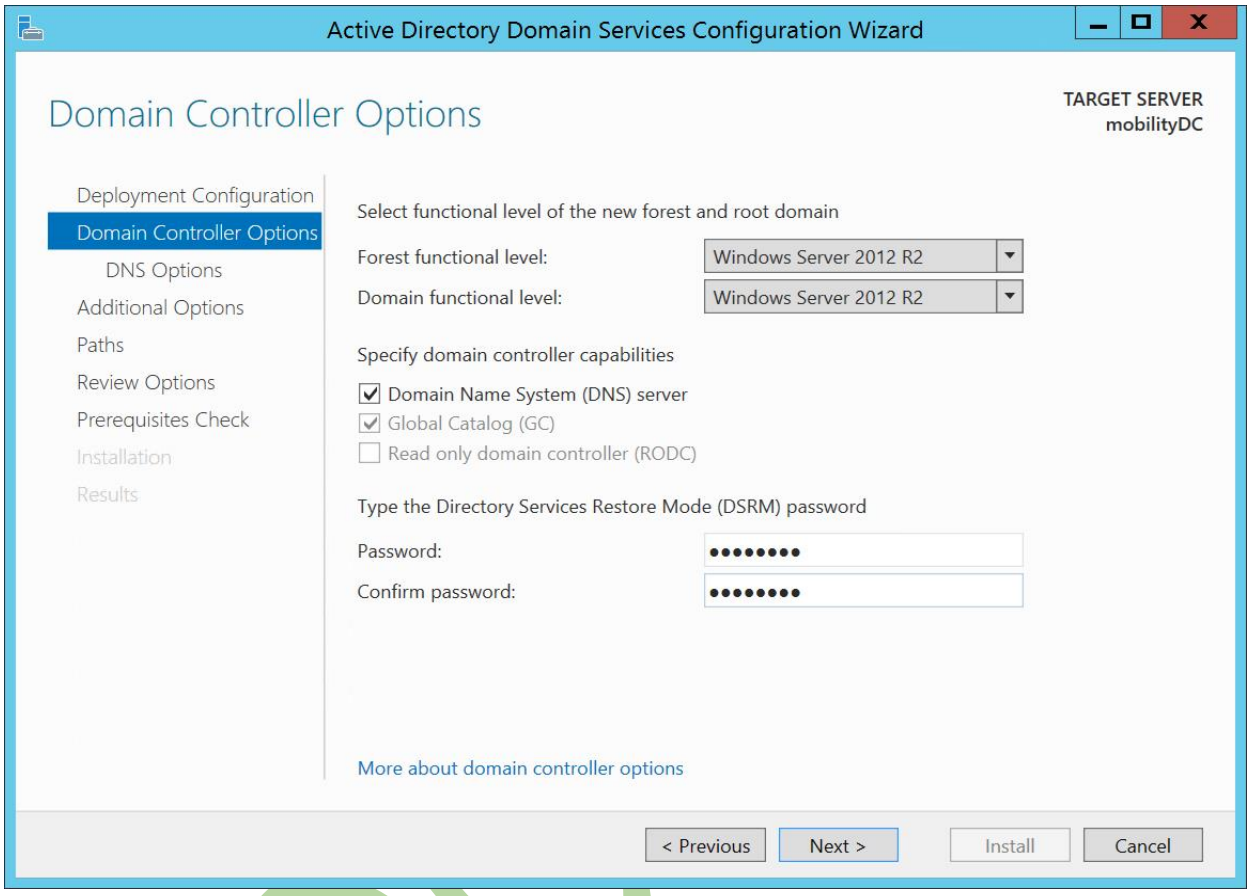
16. In the **Domain Controller Options** step type the password ******** and confirm the password.Leave all other field as default and click **Next**.



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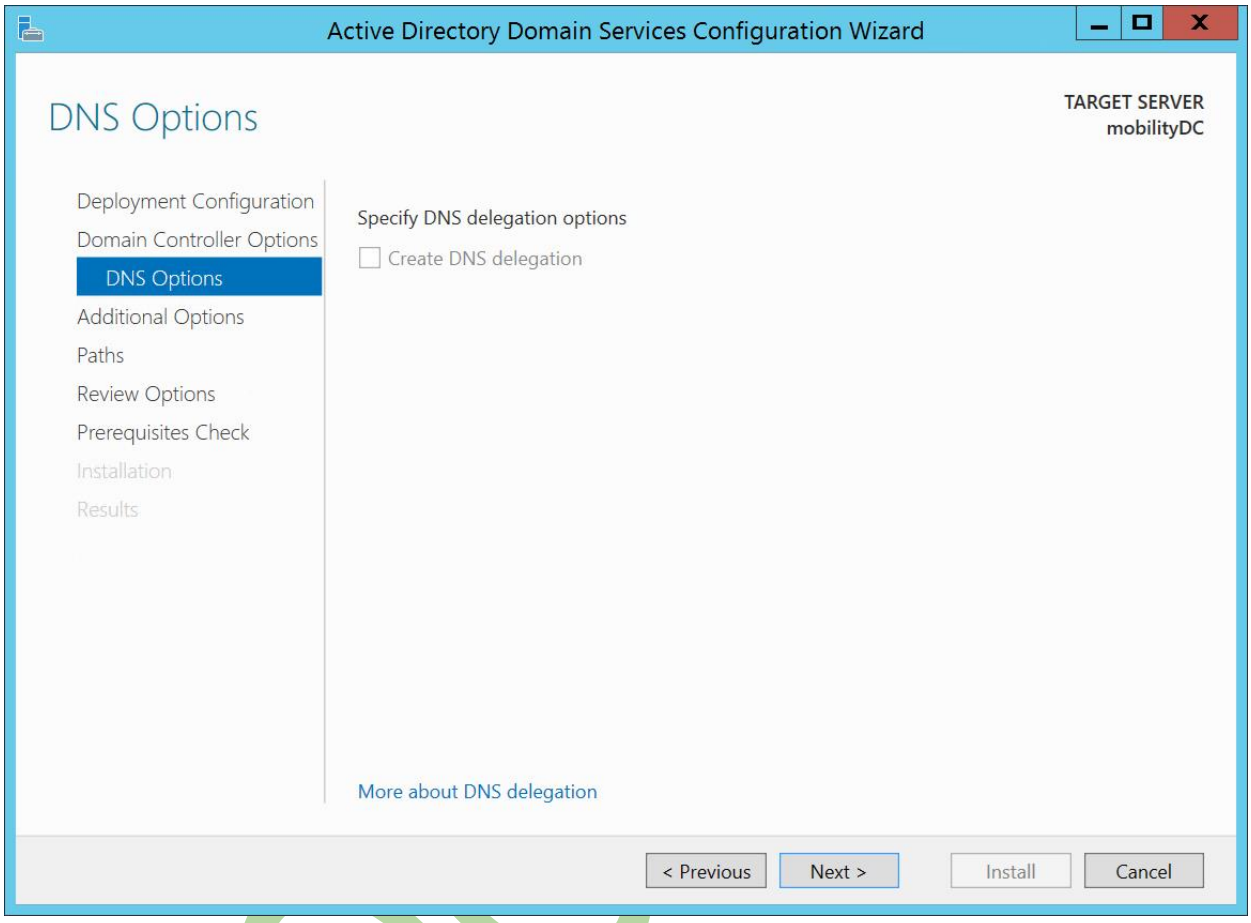
17. In the **DNS Options** step notice the warning about the delegation for the DNS server. We will configure this later.



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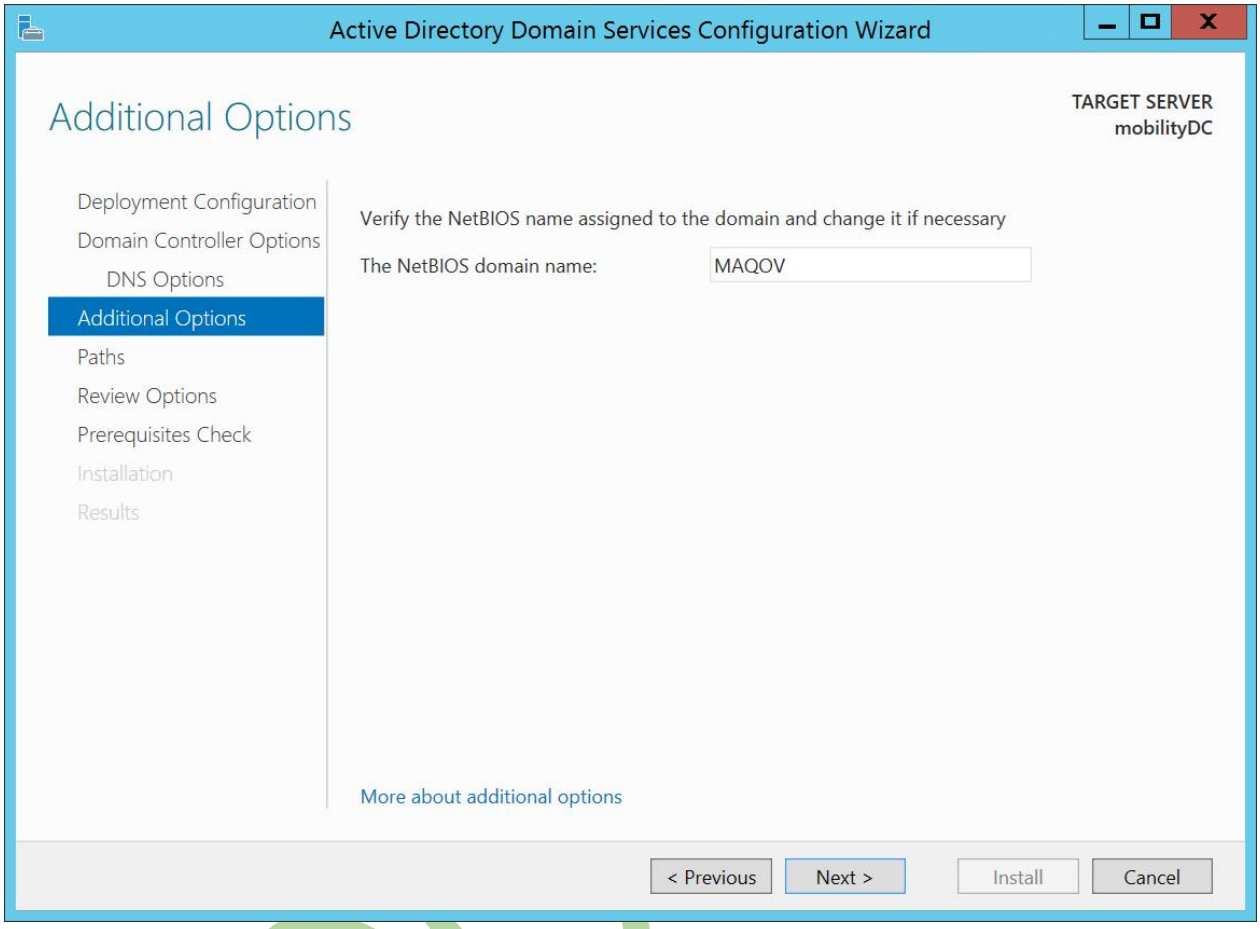
18. In the **Additional Options** step leave the default NetBIOS domain name **MAQOV** and click **Next**.



19. In the Paths step leave the default paths and click **Next**.

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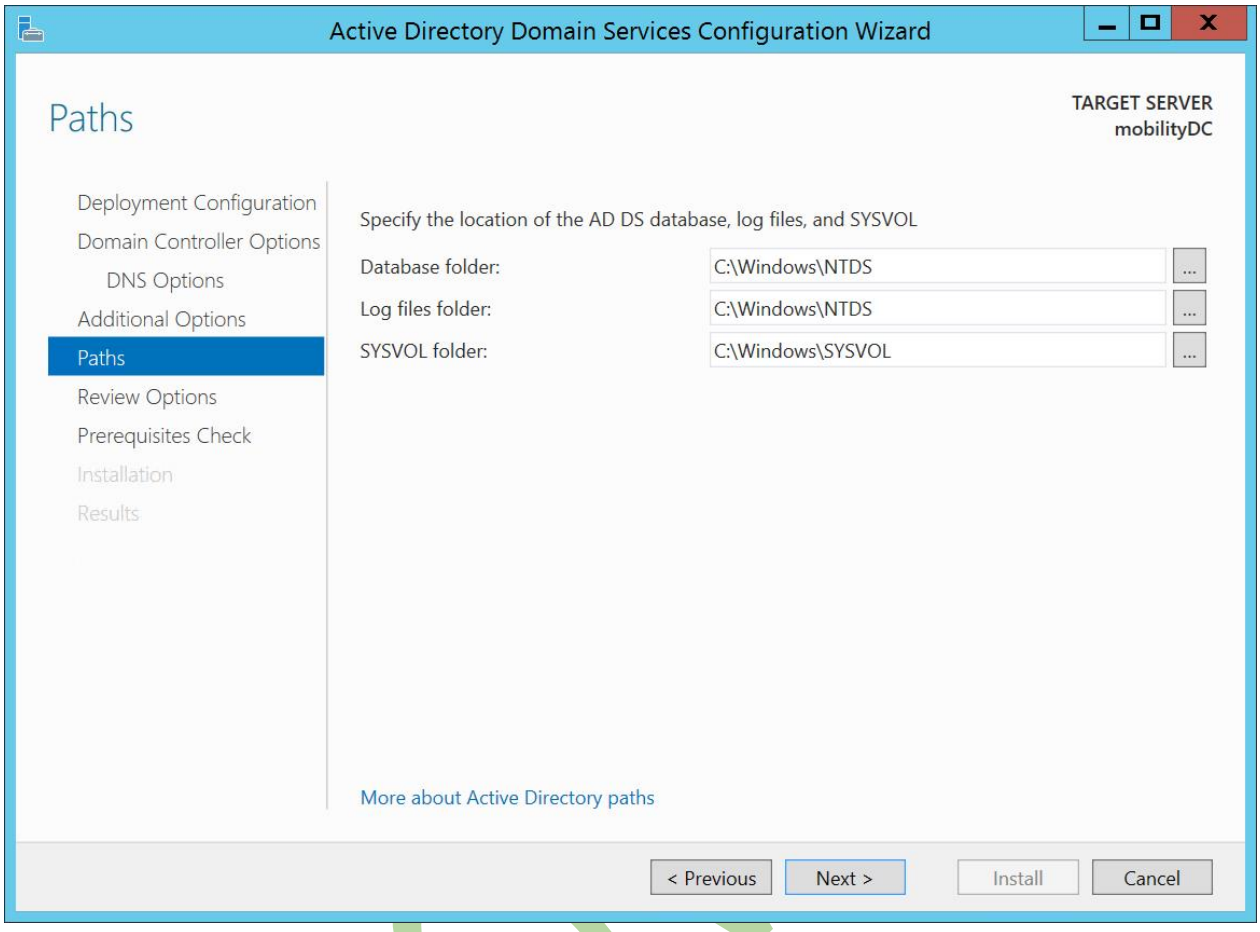

20. In the Review Options field review the options and click **Next**.
After a successful Prerequisite check in the Installation step click **Install**.

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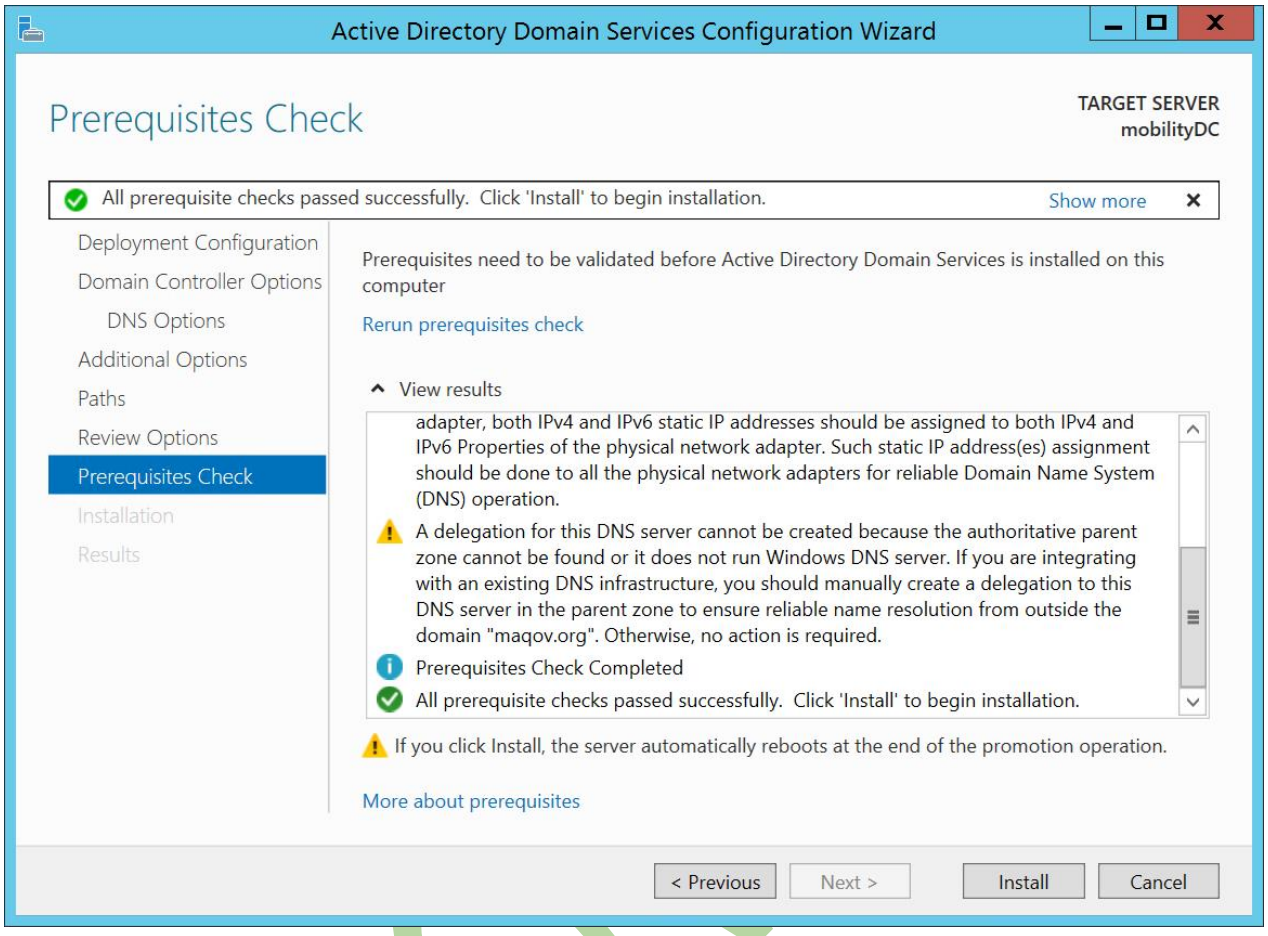

21. After the installation finishes the server will **reboot**.

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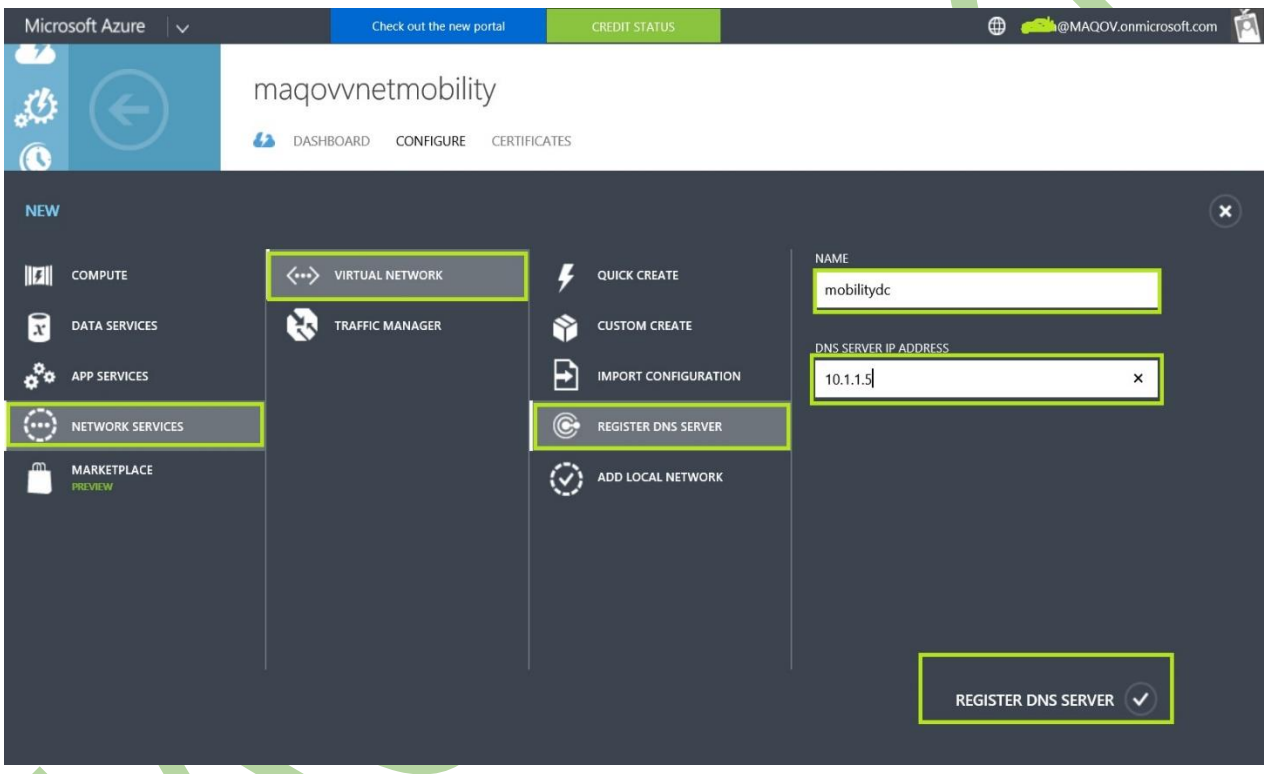
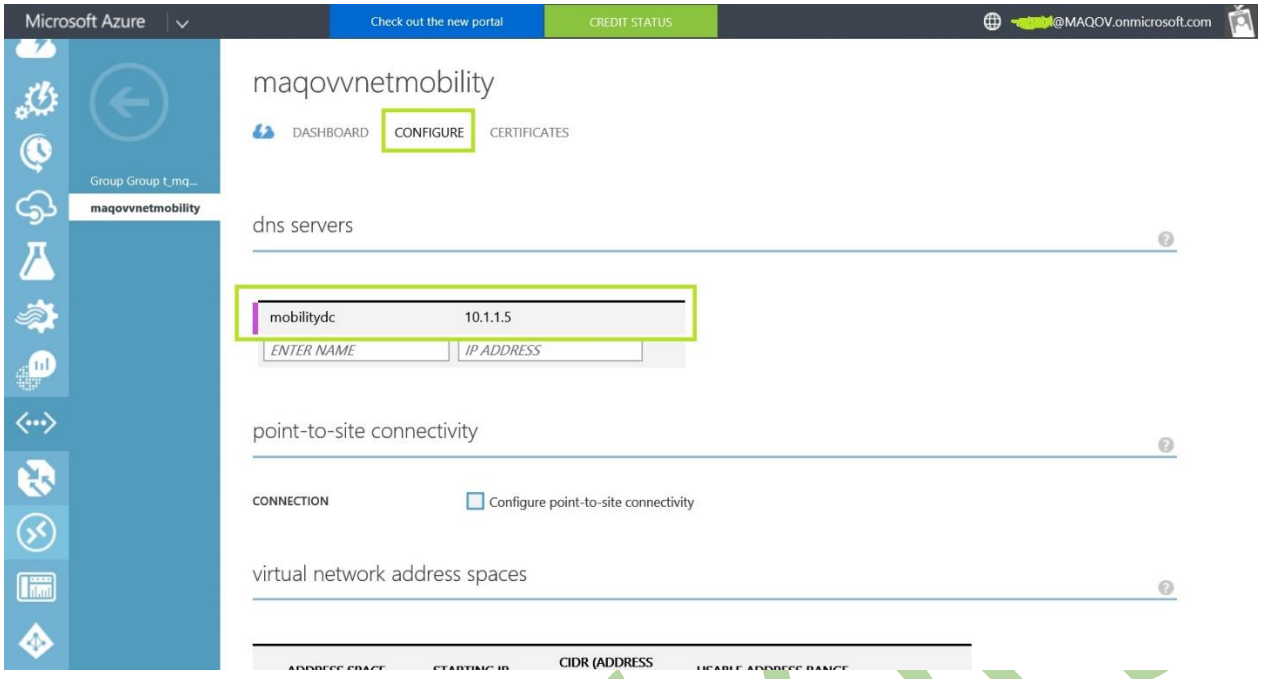
DNS - Configure MobilityDC as DNS for Virtual Network

This section will outline how to configure MobilityDC as the DNS server for the virtual network created in Azure.

1. Make sure you are logged on to the management portal of manage.windowsazure.com.
2. Select **Networks**
3. Select **DNS Servers**
4. Select **REGISTER DNS SERVER**.
5. Under name type **MobilityDC**
6. Under **IP address** type **10.1.1.5**
7. Click **register DNS Server**



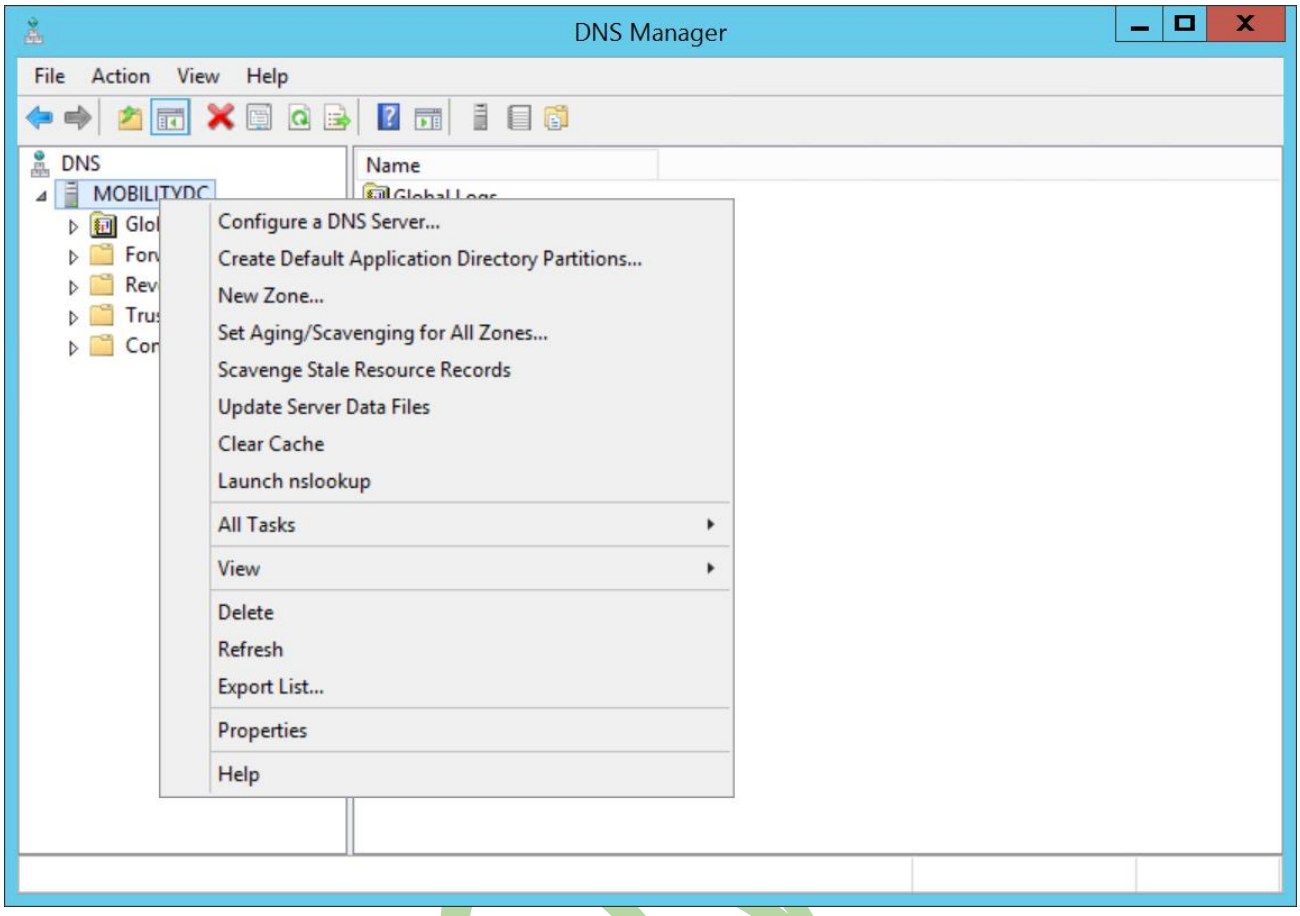
8. Select **VIRTUAL NETWORKS**
9. Select **Maqovvnetmobility**.
10. Select **Configure**
11. Under dns servers in the ENTER NAME select the name of the domain controller "**MobilityDC**" Azure will recognize the DNS server name and you can click it.
12. Select **SAVE**
13. Read the message and click **Yes**

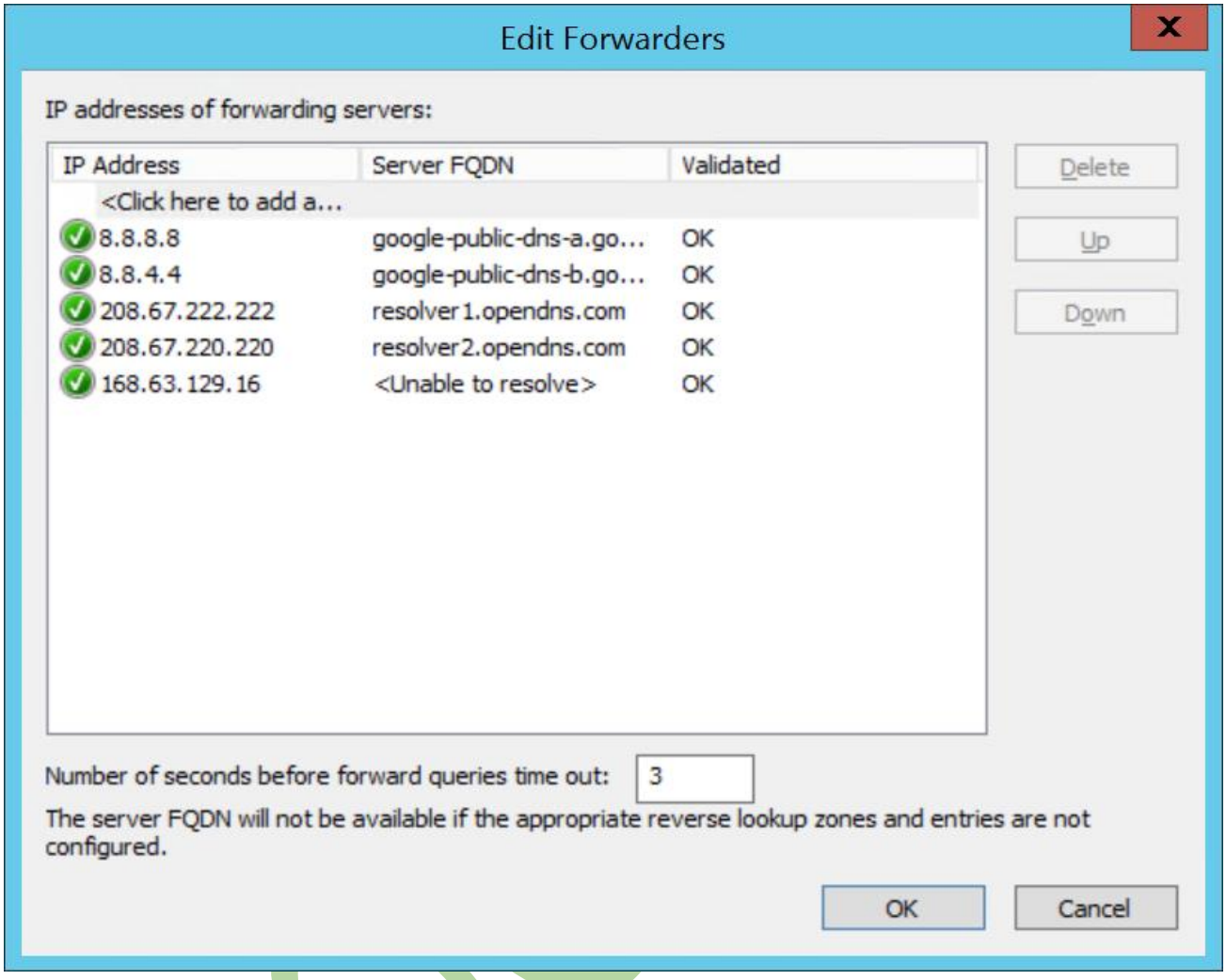


DNS - Configure MobilityDC with DNS Forwarders

1. Select **Virtual Machines** .
2. Select "**MobilityDC**" and click **Connect** at the bottom of the screen.
3. Logon to **MobilityDC** with "**MAQOV**" with the password *******
4. Open **Server Manager**
5. Under **Tools** in the top right of the screen click **DNS**.
6. In DNS Manager select "**MAQOV.org**" and right click to select **Properties**.
7. Select the **Forwarders** tab.
8. Click **Edit**.

MAQOV.com


DNS Manager
File
Action
View
Help
DNS
MOBILITYDC
Name
Configure a DNS Server...
Create Default Application Directory Partitions...
New Zone...
Set Aging/Scavenging for All Zones...
Scavenge Stale Resource Records
Update Server Data Files
Clear Cache
Launch nslookup
All Tasks
View
Delete
Refresh
Export List...
Properties
Help

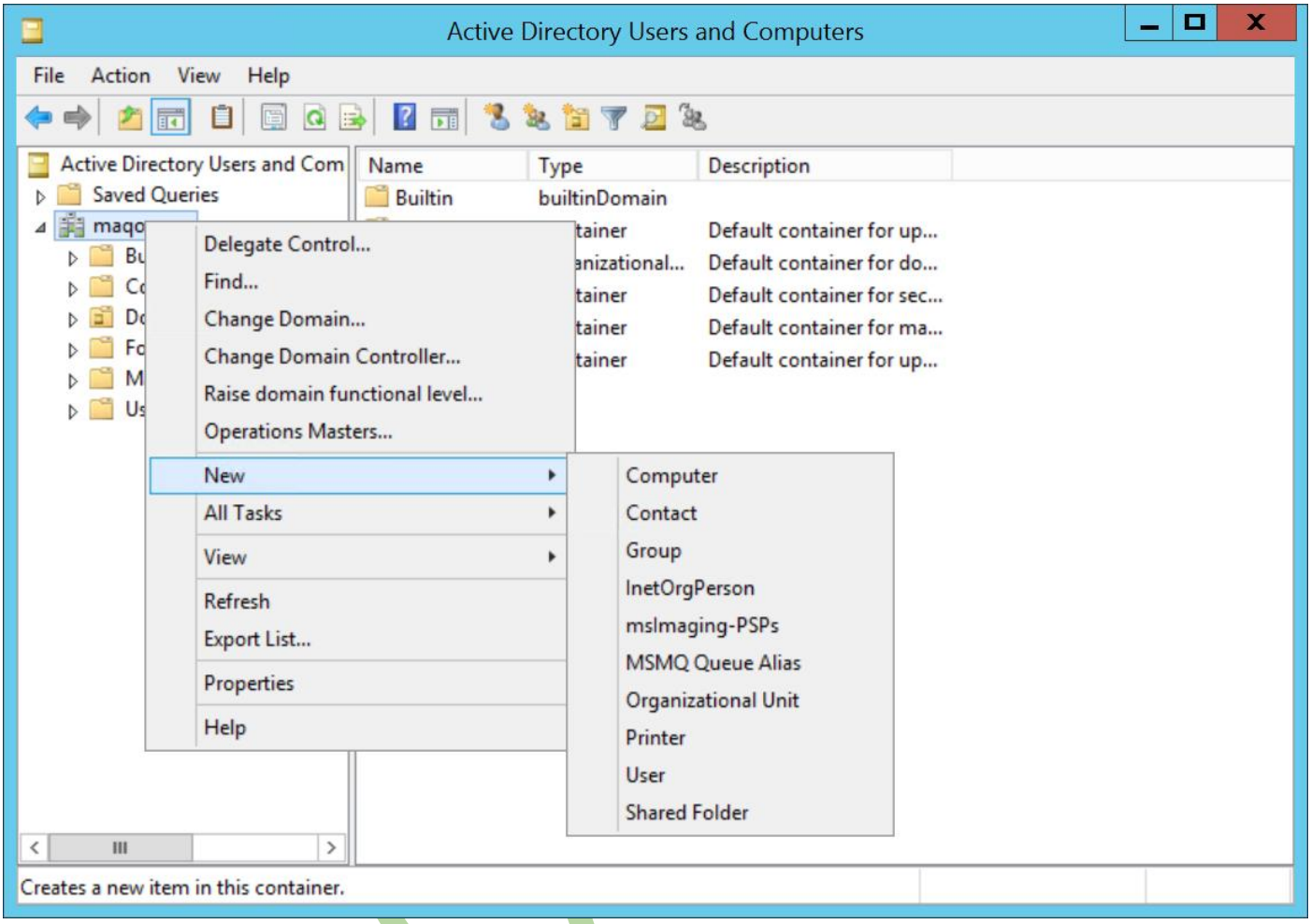


9. Enter the IP address(es) of public name servers. E.g. the 8.8.OpenDNS nameservers (208.67.222.222 (resolver1.opendns.com), 208.67.220.220 (resolver2.opendns.com) 8.8.4.4 (google public dns) , 8.8.8.8 (google public dns)
10. Click **OK**.
11. Click **OK**.

AD - MobilityDC: Create Organizational Unit Hierarchy

1. Open **Active Directory Users and Computers**
2. Expand the
3. Right click the domain name, select **New** and select **Organizational Unit** Type **Mobility** and click **OK**
4. Right click the **Mobility** Organizational Unit, select **New** and select **Organizational Unit** Type **Users** and click **OK**
5. Right click the **Mobility** Organizational Unit, select **New** and select **Organizational Unit** Type **Groups**
6. Right click the **Mobility** Organizational Unit, select **New** and select **Organizational Unit** Type **Service Accounts** and click **OK**

7. Right click the **Mobility** Organizational Unit, select **New** and select **Organizational Unit** Type **Admins** and click **OK**



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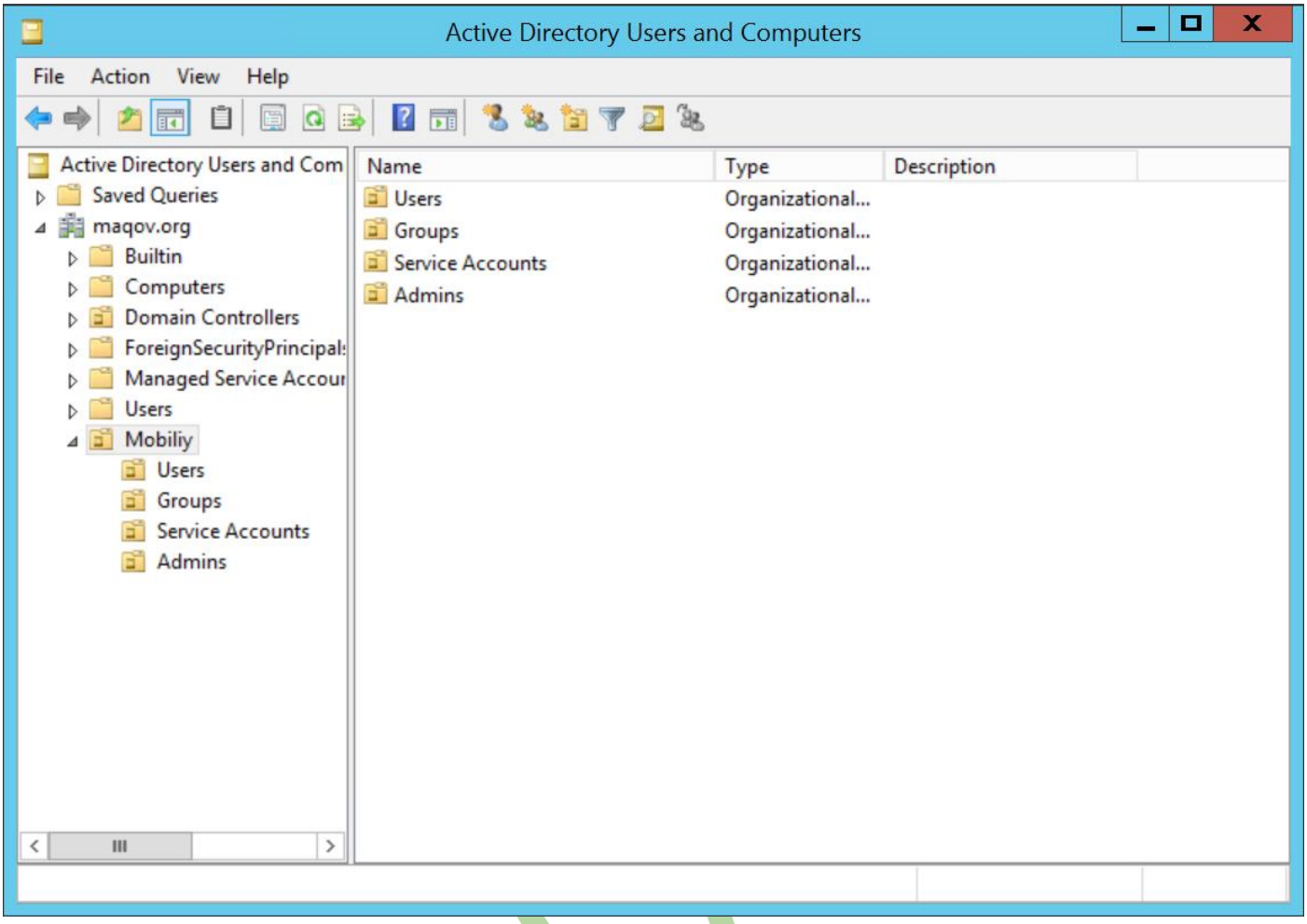

AD - MobilityDC: Users and Groups

Create an Intune Admin Account

1. Open **Active Directory Users and Computers**
2. Right click in the OU created earlier and select **Create new user.** Use the following values for the new user:
    a. First name: **Intune**
    b. Last name: **Admin**
    c. User logon name: **IntuneAdmin@maqov.org**
3. Click **next**
4. For the **Password:** use ************
5. Confirm the password.
6. Unselect **User must change password at the next logon.**
7. Select **Password never expires.**

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8. Click **Next.**

Create standard test users.

1. Open **Active Directory Users and Computers**
2. Richt click in the OU named **maqov\Users** and select **Create new user.** Use the following values for the new user:
    a. First name: **Test**
    b. Last name: **User1**
    c. User logonname: **TestUser1@maqov.org**
3. Click **Next**
4. For the **Password:** use: *******
5. Confirm the password
6. Unselect **User must change password at the next logon**
7. Select **Password never expires**
8. Click **Next**

Create additional Test Users

Repeat step 1 – step 8 for a **TestUser2, TestUser3** and **TestUser4**.

Create Test Groups

1. Open **Active Directory Users and Computers**
2. Right click in the OU created earlier and select **new GROUP**
3. Name the Group **TestGroupUser** and click **OK**
4. Repeat the steps and create the following groups **TestGroupAdmins, Marketing.**

MAQOV.org