N2WS Backup & Recovery

Quick Start Guide for Azure

V4.2.0

Contents

1 Introduction

N2WS Backup & Recovery is a powerful tool that's essentially "plug-and-play". It takes about 20 minutes to set up the basic N2WS configuration. The *Quick Start Guide for Azure* will walk you through the core steps to get N2WS up and running on the Azure cloud as a virtual machine with N2WS installed on it.

Before installing N2WS on Azure, review the basic N2WS installation in the *N2WS Backup & Recovery Quick Start Guide*.

A quick word about passwords before we get going. N2WS strongly recommends that you create a strong password for the server. Make sure no one can access it or guess it. Change passwords regularly. N2WS enforces the following password rules:

- Minimum length of 8 characters.
- Not a common word or phrase.
- Not numeric characters only.

After meeting the Requirements, you can install Azure on N2WS with the following procedures:

1. Create a Custom Role on Azure
2. Deploy N2WS VM on Azure
3. Configure N2WS on Azure with the Configuration Wizard
4. Set permissions on the N2WS instance for access to other targets in Azure

1.1 Requirements

Before continuing, check that you have met the following requirements:

1. You already have an Azure account and access to the Azure portal.
2. You can access the Azure Marketplace and create virtual machines.

2 Create Custom Role and Permissions on Azure

To view a video on creating a custom role, see https://youtu.be/ZtU_O2aMKY4

Note: For complete information on setting permissions, see section 7, "Using Azure with N2WS", in the *N2WS Backup & Recovery Quick Start Guide 4.1.0*.

1. In Microsoft Azure, select **Subscriptions**.
2. Select your subscription and then select **Access control**.
3. In the **+ Add** menu, select **Add custom role**.
4. In the **Basics** tab, type the name for your custom role In the **Custom role name** box.
5. In the Baseline permissions section, select **Start from JSON**.
6. Download and extract the JSON files in the `minimal_azure_iam_permissions_for_411.zip` file at https://support.n2ws.com/portal/en/kb/articles/minimal-azure-permissions-roles-for-n2ws-operations

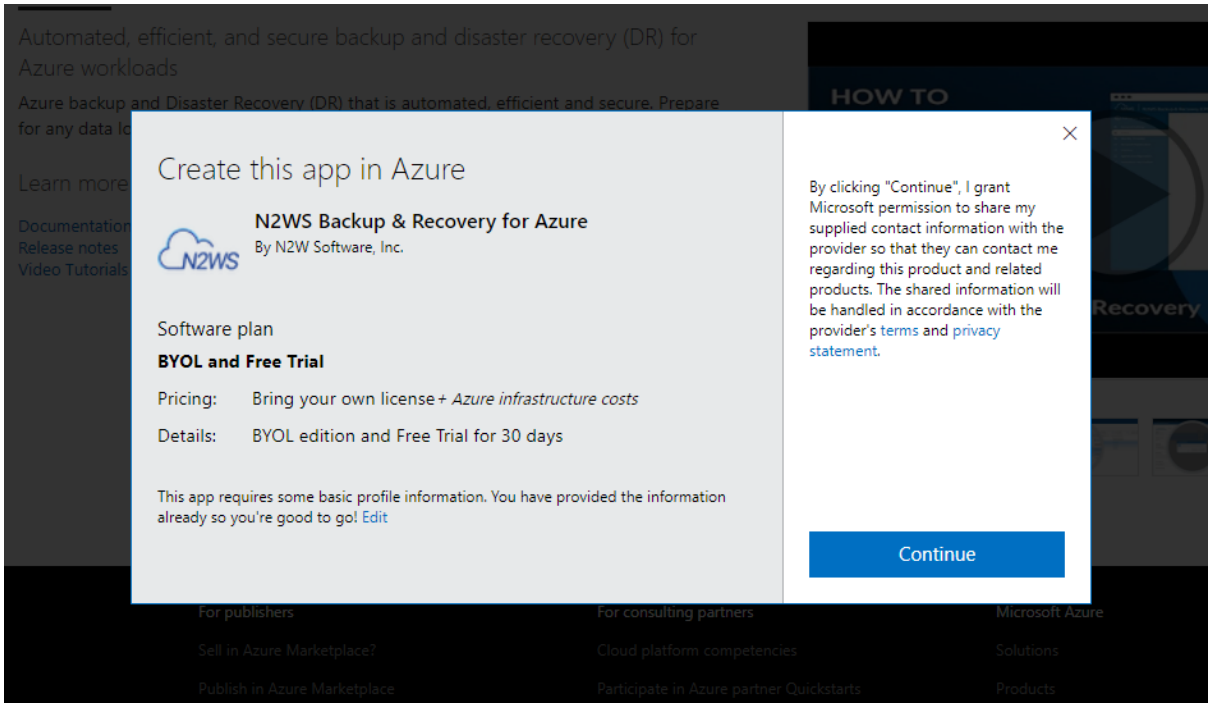
   Note: You will be able to edit the file or change the configuration before selecting the **Review + create** button.
7. In the **Select a file** box, select the downloaded JSON file relevant for your N2WS license.
8. Select **Next**.
9. In the **Permissions** tab, select **Next**.
10. In the **Assignable scopes** tab, select **Assignable scope**.
11. In the **Type** list of the **Add assignable scopes** section, select **Subscription**.
12. From the subscription list in the right-hand column, select your subscription and then select **Select**.
13. In the Assignable scopes page, select **Next**. The JSON tab opens with your custom role file.
14. Review and edit the JSON file as necessary, and then select **Next**.
15. In the **Review + create** tab, perform a final review, and then select **Create**.
16. When the custom role is successfully created, select **OK**. It may take a few minutes to display the new role everywhere.

3 Deploy N2WS Server on Azure

To view a video of the N2WS deployment on Azure, see https://www.youtube.com/watch?v=VWzyWTSpy_g

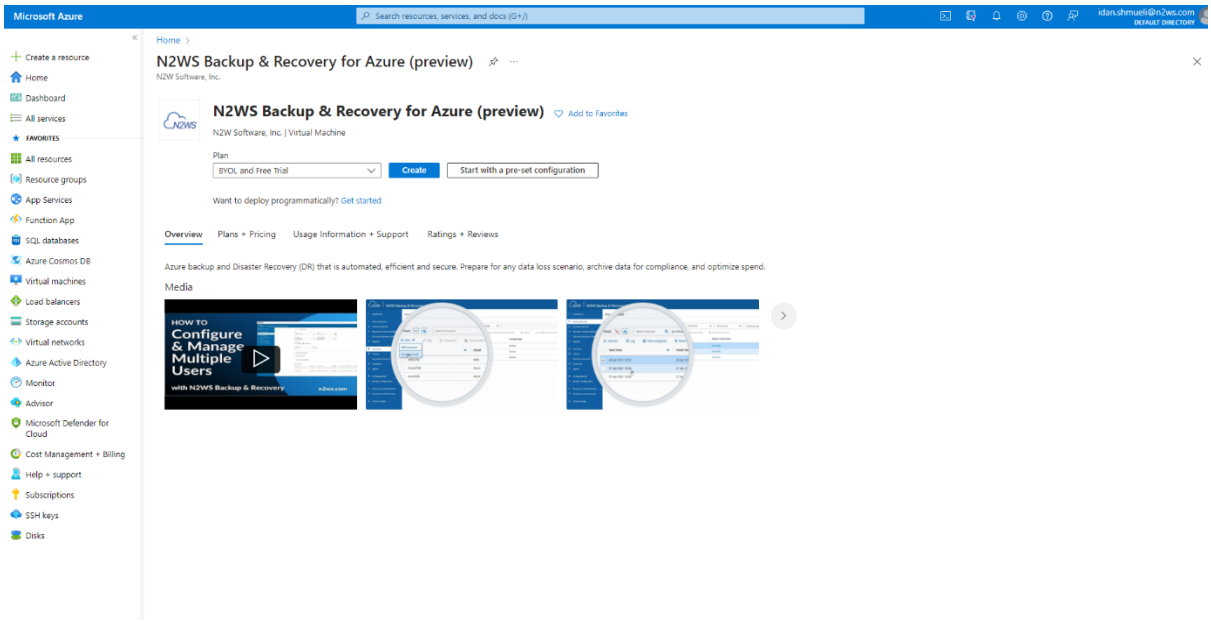
1. In Microsoft Azure Marketplace for Apps, select **Consulting Services**.
2. In the **Products** list, select **N2WS Backup & Recovery for Azure**.
3. Select **Get it Now**.

4. In the **Create this app in Azure** window for **BYOL and Free Trial**, select **Continue.**

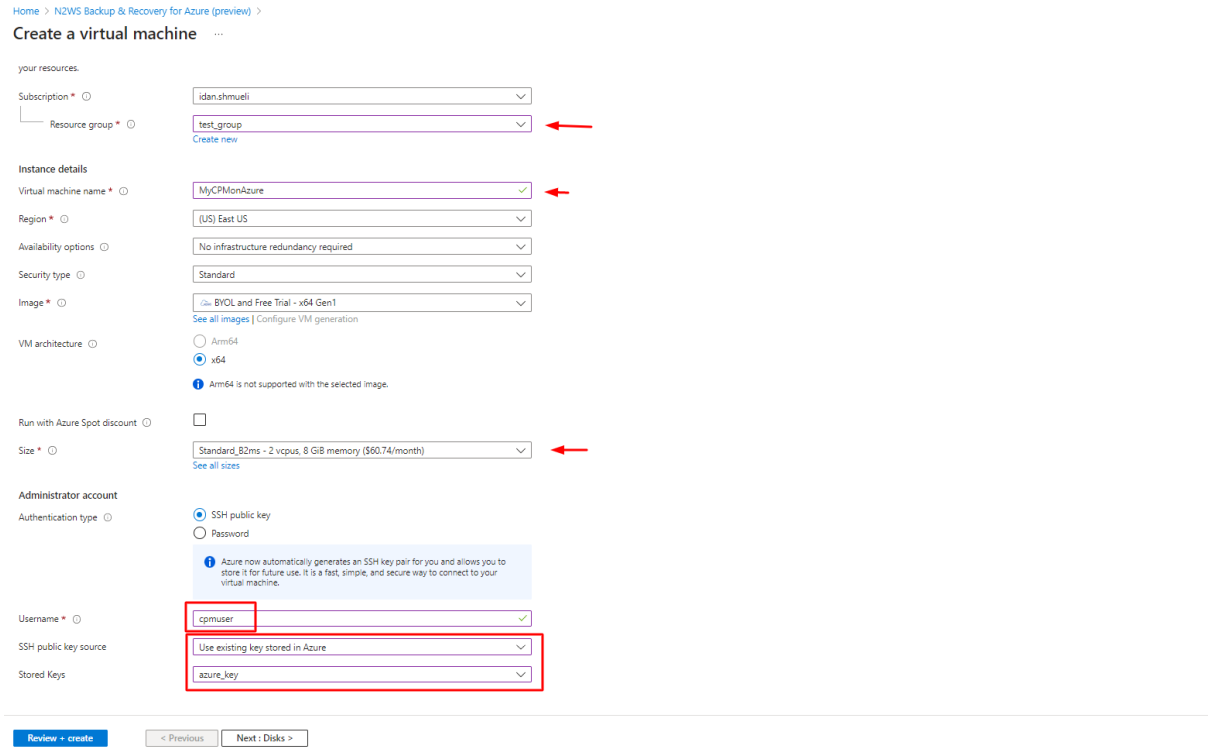


The ‘Taking you to N2WS Backup & Recovery for Azure to complete this process’ message opens.

5. In the **N2WS Backup & Recovery for Azure (preview)** page, select **BYOL and Free Trial** in the **Plan** list to start with a pre-set configuration; and then select **Create.**



6. In the **Create a virtual machine Basics** page, select the already defined username in the **Subscription** list.

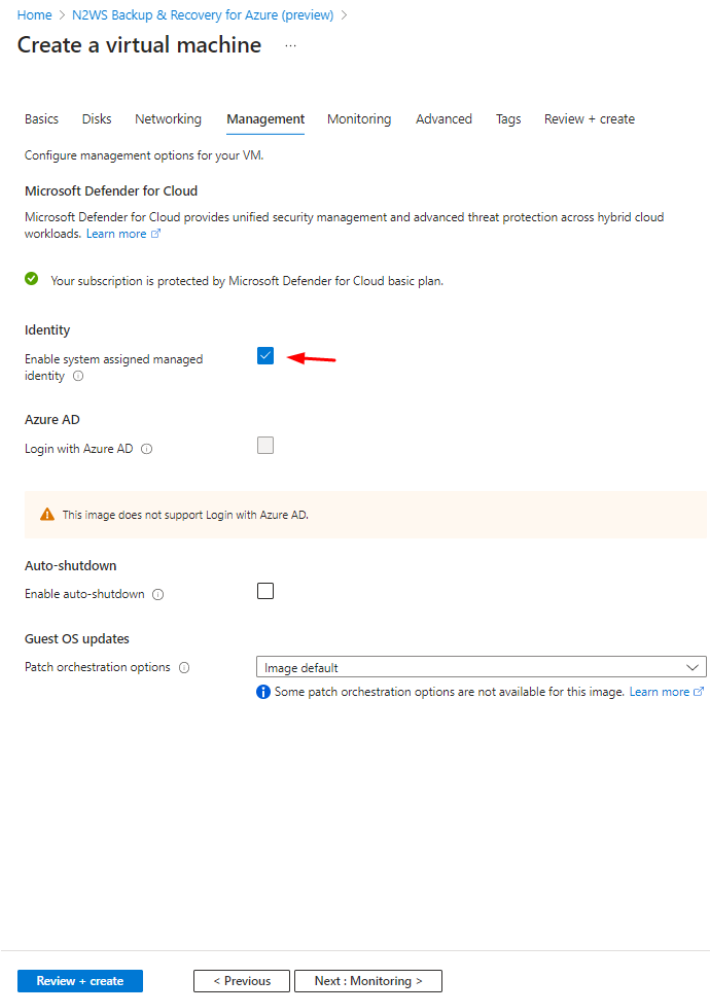


7. In the **Resource Group** list, select the resource group where you want to deploy the machine.

8. In the Instance details section:

a. Type the **Virtual machine name**.
b. Select the **Region** where to deploy the machine.

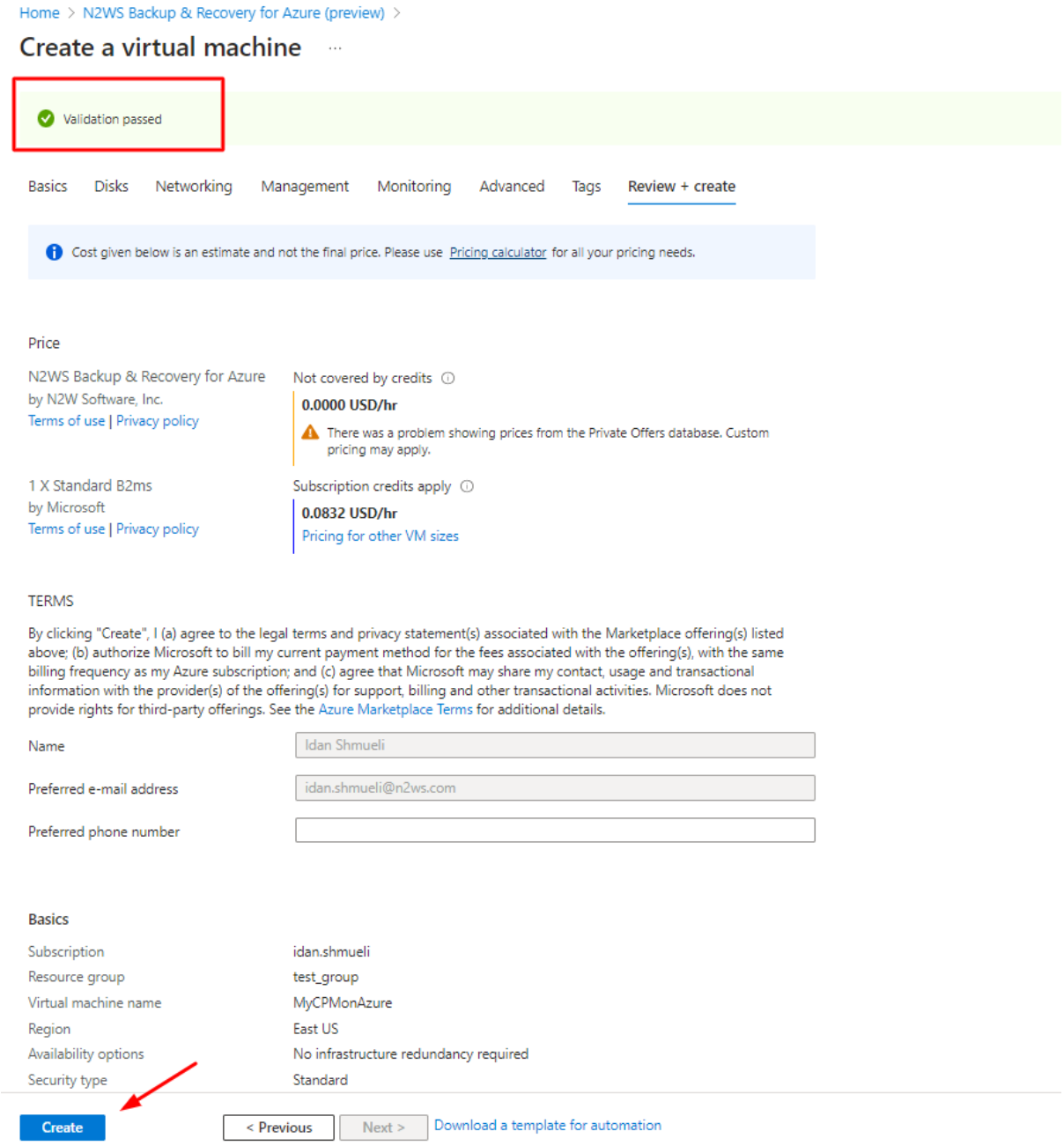
9. Select the proper **Size** of the virtual machine. Two virtual CPUs and 8 GB RAM are the minimum required for a small company.
10. In the **Username** list, you can enter the Azure username, but it will be best to use '**cpmuser'** as the **username**.
11. In the **SSH public key source** list, select **Use existing key stored in Azure** or you can create a new key.
12. In the **Stored Keys** list, select **azure_key**, and then select **Next:Disks**.
13. In the **Disks** tab, select **Review + create**, and then select **Next:Networking**.
14. In the **Networking** tab, select **Delete public IP and NIC when VM is deleted**, and then select **Next:Management**.
15. In the **Management** tab **Identity** section, you can select **Enable system assigned managed identity** or use a user-based identity later, and then select **Next:Monitoring**.



16. In the **Monitoring** tab, select **Next:Advanced**.
17. In the **Advanced** tab **User data** section, select **Enable user data**, and then select **Next** for **Tags**, if necessary.

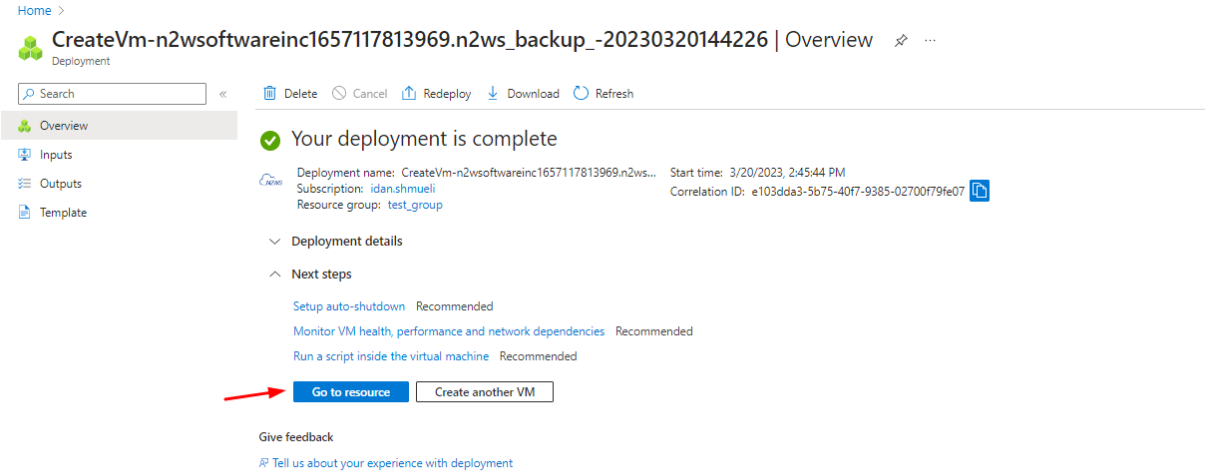
18. Select **Next:Review + create**.

19. At the bottom of the **Review + create** tab, select **Create** to start the process.



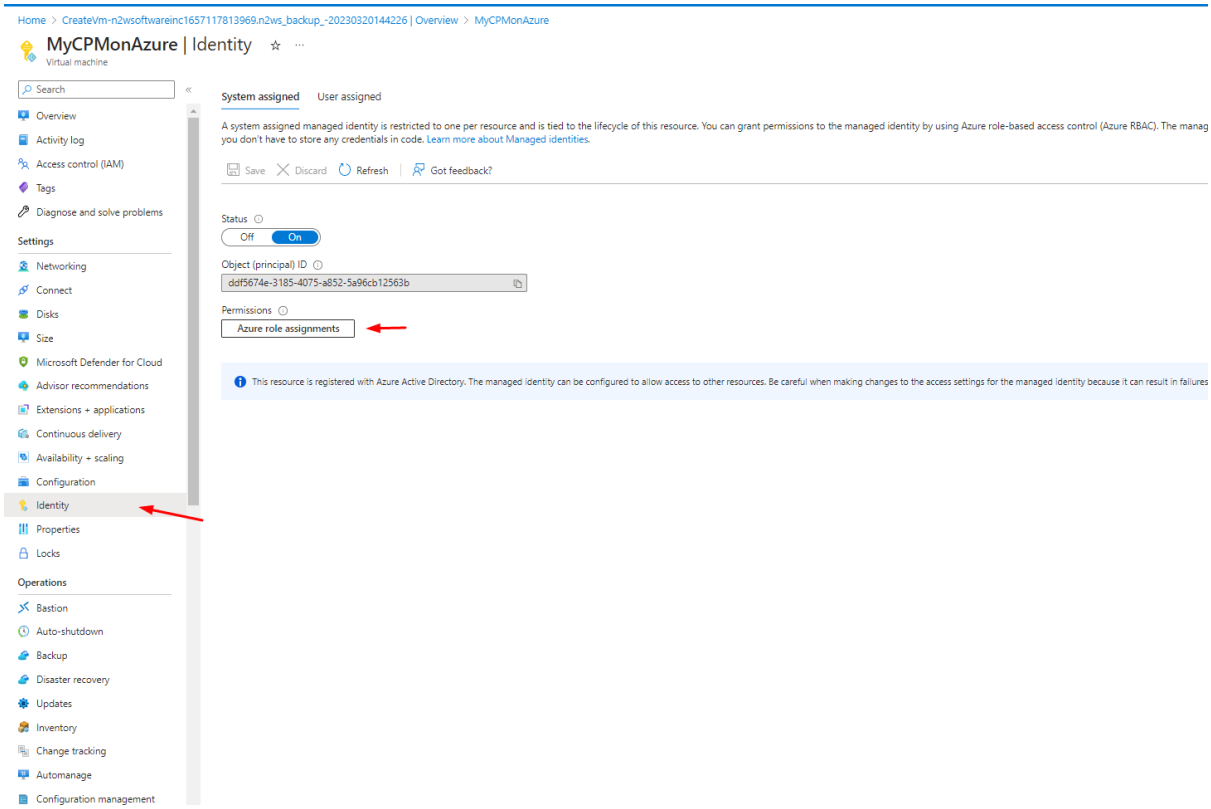
Deployment stage messages appear in the upper right corner followed by 'Deployment is in progress' details.

20. When the deployment is complete, select **Go to resource**.



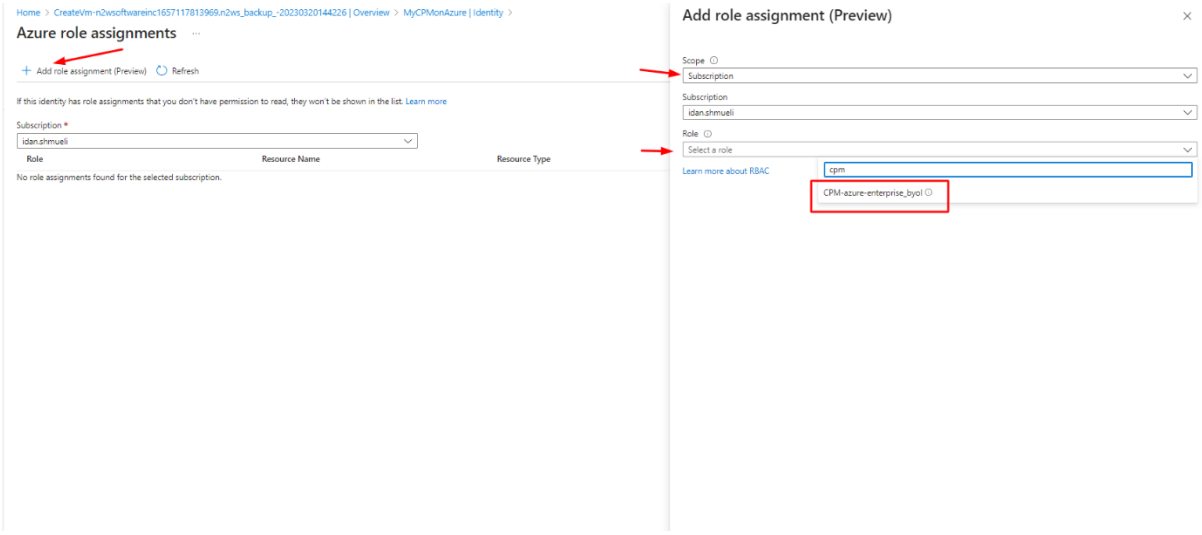
The **CPMonAzure** screen opens.

21. In the **Networking** section of the **Properties** tab, copy the **Public IP address**.
22. In the **CPMonAzure** menu, select **Identity**.
23. In the **System assigned** tab, select **Azure role assignments** under **Permissions**.



24. On the **Azure role assignments** page, select the pre-defined user **in** the **Subscription** list.
25. Select **+Add role assignment (preview)**.

    The Add role assignment (Preview) window opens.



26. In the **Scope** list, select **Subscription**.
27. In the **Role** list, select **CPM-azure-enterprise_byol**, which should contain minimal permissions for the virtual machine to handle your resources. Then select **Save**.

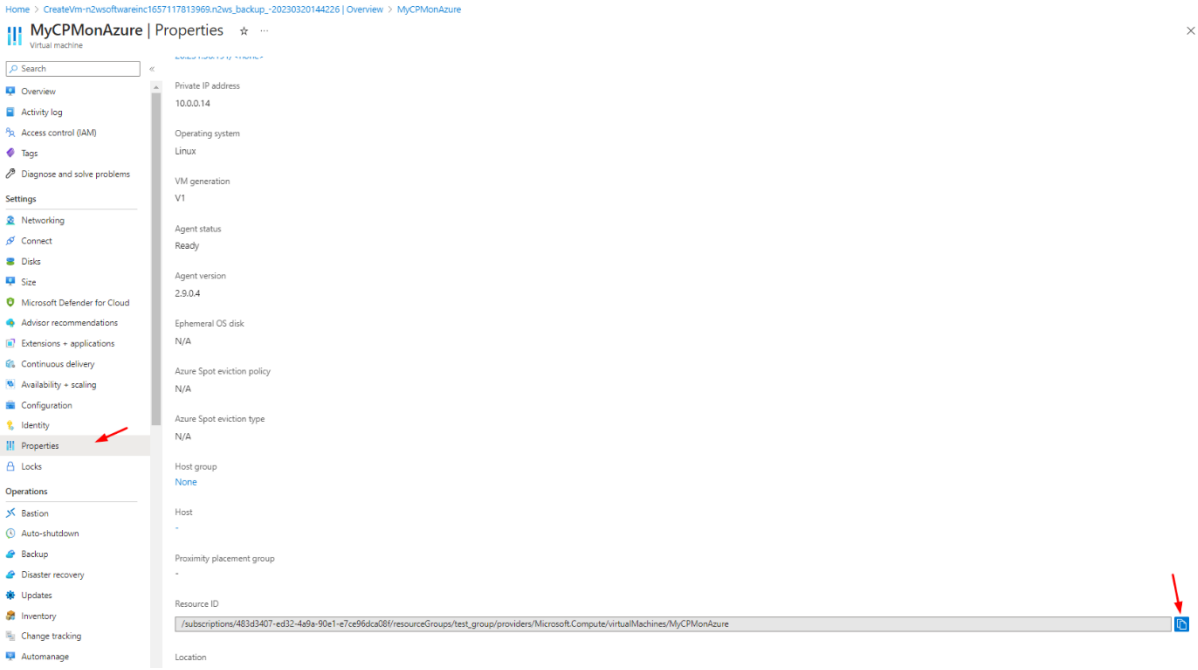
    Role assignment messages appear in the upper right corner.

The Azure portion of the configuration is complete.

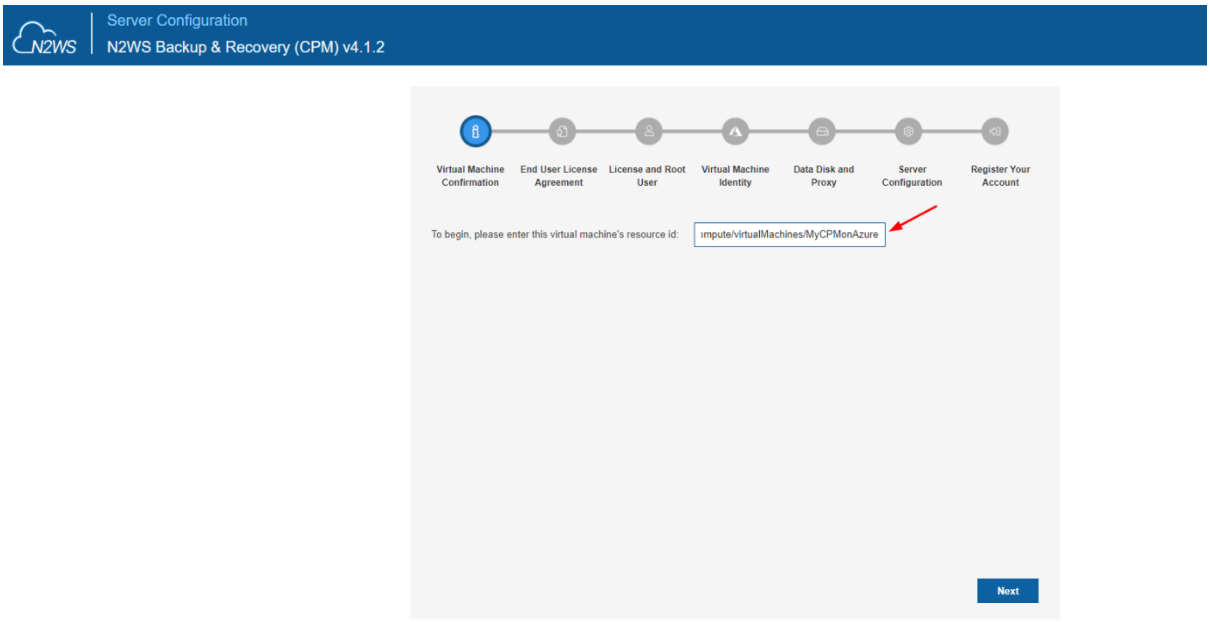
4 Configure N2WS on Azure with the Configuration Wizard

To view a video of the N2WS configuration, see https://youtu.be/WPj12TZzo7Y

1. In Microsoft Azure, open a new tab and log on to N2WS using the public IP address of the virtual machine over HTTPS.
2. In the menu select **Overview**.
3. In the Properties section, copy the Public IP address under Networking.
4. Open a new tab in the browser and paste the **Public IP address** in the address bar. The N2WS Server Configuration page opens.
5. In the menu of the prior tab, select **Properties** and copy the **Resource ID.**



6. In the N2WS Configuration screen, paste the **Resource ID** in the **Virtual Machine Confirmation** step field and select **Next.**



7. Accept the **End User License Agreement** terms and select **Next**.
8. In the **License and Root User** step:
    a. In the **License** list, select the proper license method.
    b. Complete the logon root **User name**, optional **Email**, and **Password** sequence**,** and then select **Next**.
9. In the **Virtual Machine Identity** step, using the system assigned identity configured on Azure, select **System-assigned** in the **VM managed identity type** list, and then select **Next**.
10. In the **Data Disk and Proxy** step:
    a. **I**n the **Choose Time** list, select the appropriate time zone.
    b. In the Choose new or existing disk list, select **Create New Data Disk**.
    c. Choose proxy settings as needed, and then select **Next**.
11. In the **Server Configuration** step, accept the default values and select **Next**.
12. In the **Register Your Account** step, select **I don't want to register now**, and then select **Configure System**. The 'Configuring Server. It may take a while ..' message appears.

The installation is now complete.