



N2WS Backup & Recovery
Quick Start Guide for Azure
V4.2.0



Contents

1	Introduction	3
1.1	Requirements	3
2	Create Custom Role and Permissions on Azure.....	4
3	Deploy N2WS Server on Azure	5
4	Configure N2WS on Azure with the Configuration Wizard	11



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*.

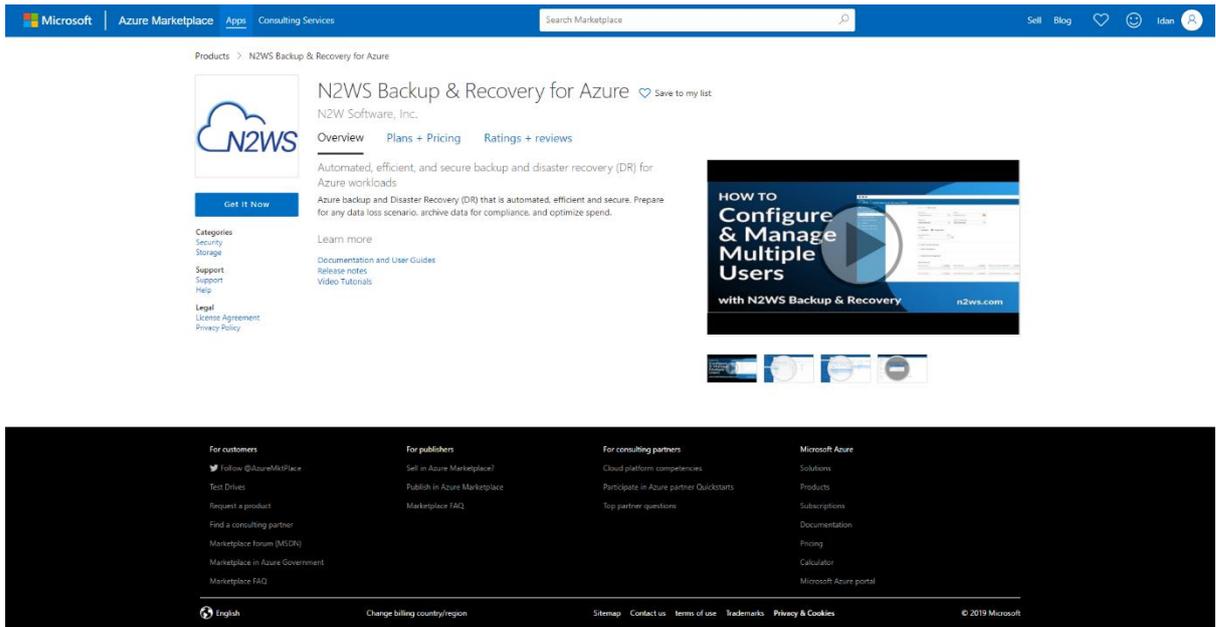
1. In Microsoft Azure, select **Subscriptions**.
 2. Select your subscription and then select **Access control**.
 3. In the **+ Add** menu, select **Add custom role**.
 4. In the **Basics** tab, type the name for your custom role in the **Custom role name** box.
 5. In the Baseline permissions section, 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.



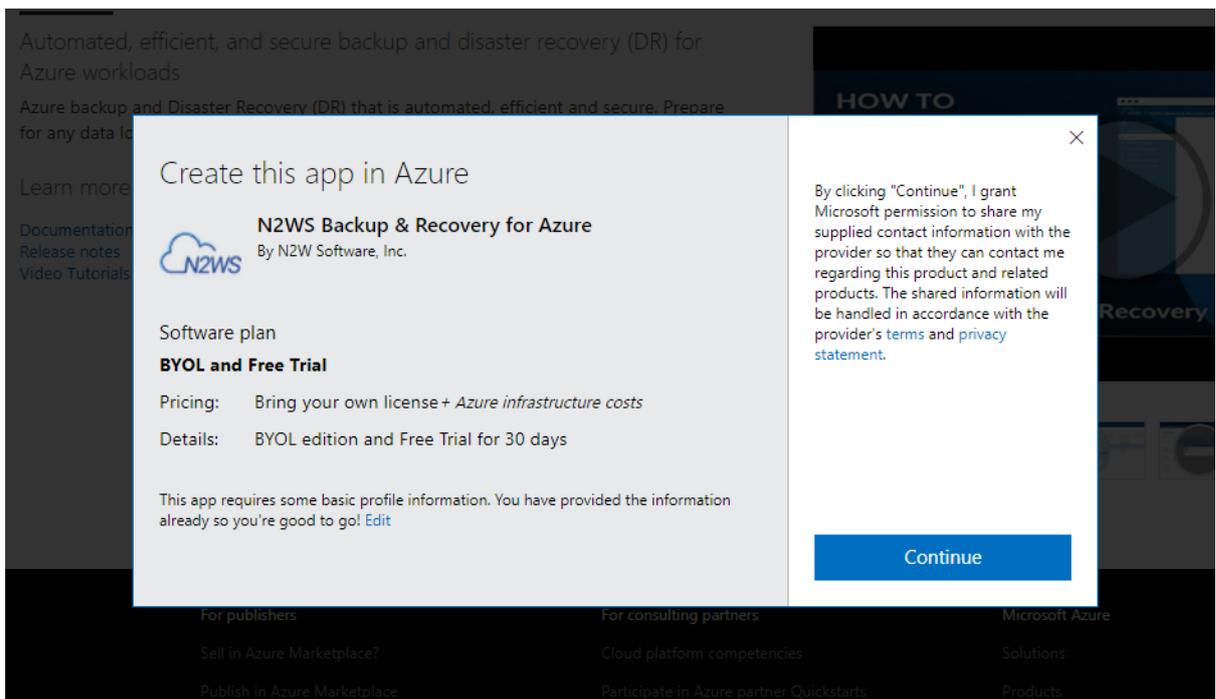
3 Deploy N2WS Server on Azure

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**.



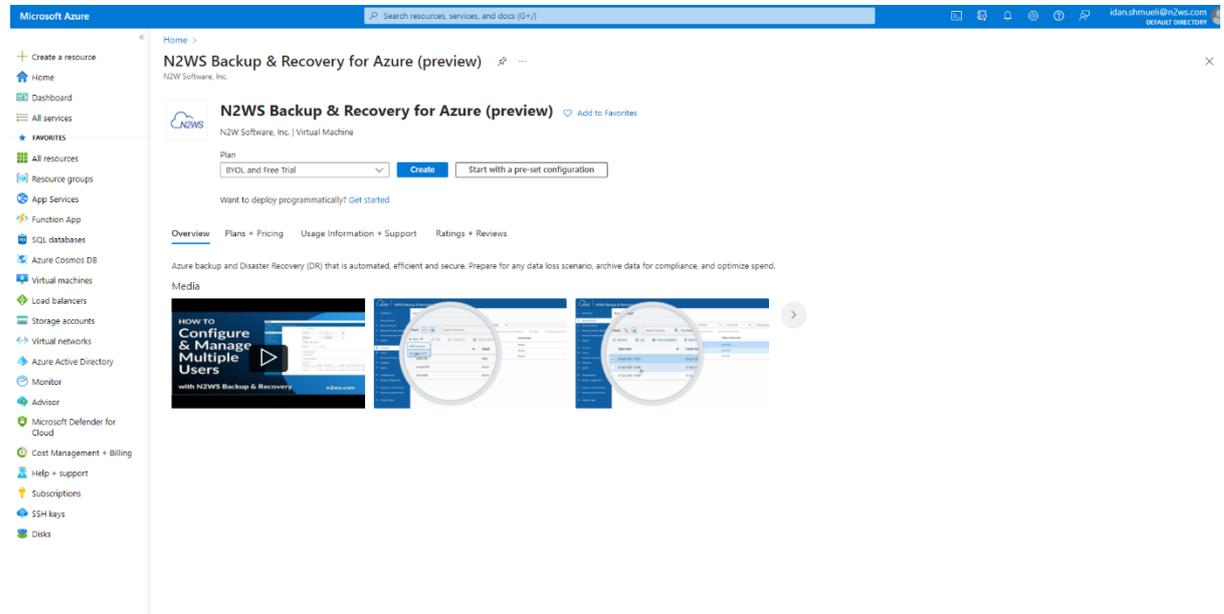
4. In the **Create this app in Azure** window for **BYOL and Free Trial**, select **Continue**.



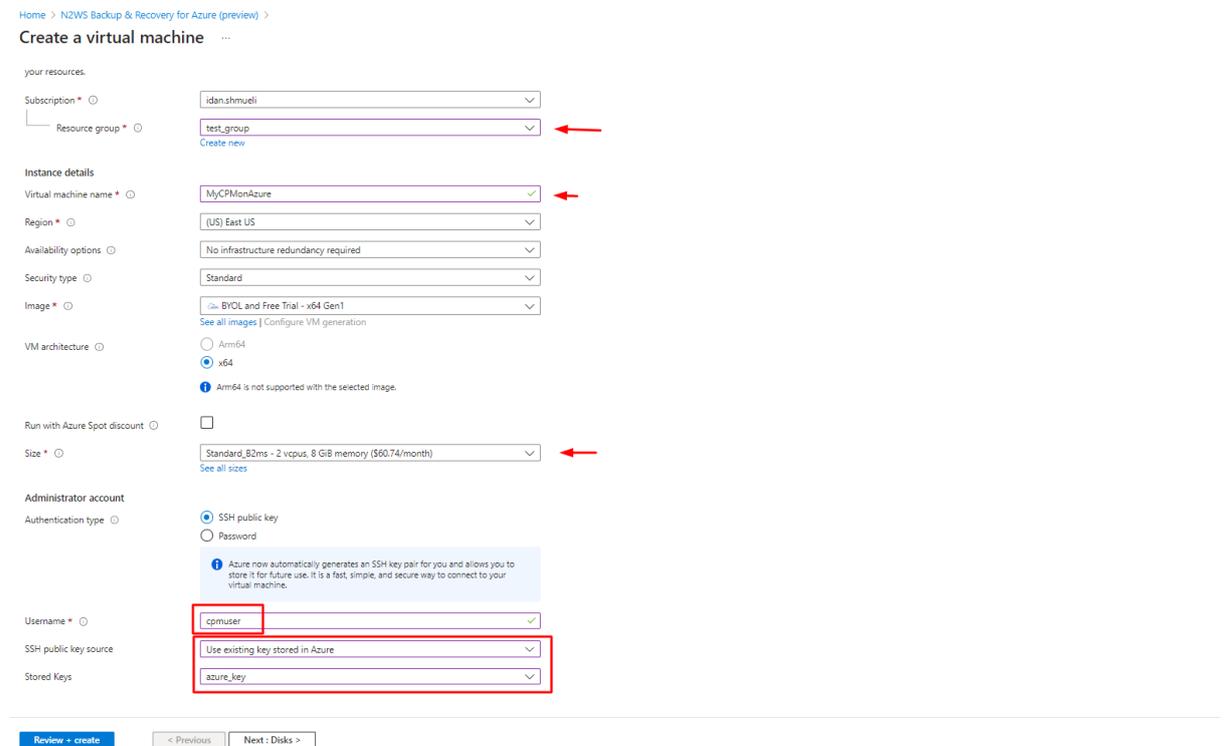


The 'Taking you to N2WS Backup & Recovery for Azure to complete this process' message opens.

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**.

[Home](#) > [N2WS Backup & Recovery for Azure \(preview\)](#) >

Create a virtual machine ...

Basics Disks Networking **Management** Monitoring Advanced Tags Review + create

Configure management options for your VM.

Microsoft Defender for Cloud

Microsoft Defender for Cloud provides unified security management and advanced threat protection across hybrid cloud workloads. [Learn more](#)

Your subscription is protected by Microsoft Defender for Cloud basic plan.

Identity

Enable system assigned managed identity

Azure AD

Login with Azure AD

This image does not support Login with Azure AD.

Auto-shutdown

Enable auto-shutdown

Guest OS updates

Patch orchestration options

Some patch orchestration options are not available for this image. [Learn more](#)

[Review + create](#)

[< Previous](#)

[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.

Home > N2WS Backup & Recovery for Azure (preview) >

Create a virtual machine

Validation passed

Basics Disks Networking Management Monitoring Advanced Tags Review + create

Cost given below is an estimate and not the final price. Please use [Pricing calculator](#) for all your pricing needs.

Price

N2WS Backup & Recovery for Azure by N2W Software, Inc. Terms of use Privacy policy	Not covered by credits ⓘ 0.0000 USD/hr ⚠ There was a problem showing prices from the Private Offers database. Custom pricing may apply.
1 X Standard B2ms by Microsoft Terms of use Privacy policy	Subscription credits apply ⓘ 0.0832 USD/hr Pricing for other VM sizes

TERMS

By clicking "Create", I (a) agree to the legal terms and privacy statement(s) associated with the Marketplace offering(s) listed above; (b) authorize Microsoft to bill my current payment method for the fees associated with the offering(s), with the same billing frequency as my Azure subscription; and (c) agree that Microsoft may share my contact, usage and transactional information with the provider(s) of the offering(s) for support, billing and other transactional activities. Microsoft does not provide rights for third-party offerings. See the [Azure Marketplace Terms](#) for additional details.

Name:

Preferred e-mail address:

Preferred phone number:

Basics

Subscription	idan.shmueli
Resource group	test_group
Virtual machine name	MyCPMonAzure
Region	East US
Availability options	No infrastructure redundancy required
Security type	Standard

Create < Previous Next > [Download a template for automation](#)

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**.



Home >

CreateVm-n2wsoftwareinc1657117813969.n2ws_backup_-20230320144226 | Overview

Deployment
Search << Delete Cancel Redeploy Download Refresh

Overview

Inputs

Outputs

Template

✓ Your deployment is complete

Deployment name: CreateVm-n2wsoftwareinc1657117813969.n2ws... Start time: 3/20/2023, 2:45:44 PM
Subscription: idan.shmueli Correlation ID: e103dda3-5b75-40f7-9385-02700f79fe07
Resource group: test_group

Deployment details

Next steps

- Setup auto-shutdown Recommended
- Monitor VM health, performance and network dependencies Recommended
- Run a script inside the virtual machine Recommended

Go to resource Create another VM

Give feedback
Tell us about your experience with deployment

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**.

Home > CreateVm-n2wsoftwareinc1657117813969.n2ws_backup_-20230320144226 | Overview > MyCPMonAzure

MyCPMonAzure | Identity

Virtual machine

Search <<

Overview

Activity log

Access control (IAM)

Tags

Diagnose and solve problems

Settings

Networking

Connect

Disks

Size

Microsoft Defender for Cloud

Advisor recommendations

Extensions + applications

Continuous delivery

Availability + scaling

Configuration

Identity

Properties

Locks

Operations

Bastion

Auto-shutdown

Backup

Disaster recovery

Updates

Inventory

Change tracking

Automanage

Configuration management

System assigned User assigned

A system assigned managed identity is restricted to one per resource and is tied to the lifecycle of this resource. You can grant permissions to the managed identity by using Azure role-based access control (Azure RBAC). The managed identity you don't have to store any credentials in code. Learn more about Managed identities.

Save Discard Refresh Got feedback?

Status

Off On

Object (principal) ID

ddf5074e-3185-4075-a852-5a96cb12563b

Permissions

Azure role assignments

This resource is registered with Azure Active Directory. The managed identity can be configured to allow access to other resources. Be careful when making changes to the access settings for the managed identity because it can result in failures.

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.



Home > CreateVm-n2wssoftwareinc1657117813969.n2ws_backup_-20230320144226 | Overview > MyCPMonAzure | Identity >

Azure role assignments

+ Add role assignment (Preview) Refresh

If this identity has role assignments that you don't have permission to read, they won't be shown in the list. [Learn more](#)

Subscription *
idanshmuelli

Role	Resource Name	Resource Type
No role assignments found for the selected subscription.		

Add role assignment (Preview)

Scope
Subscription

Subscription
idanshmuelli

Role
Select a role

Learn more about RBAC

cpm

CPM-azure-enterprise_byol

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.

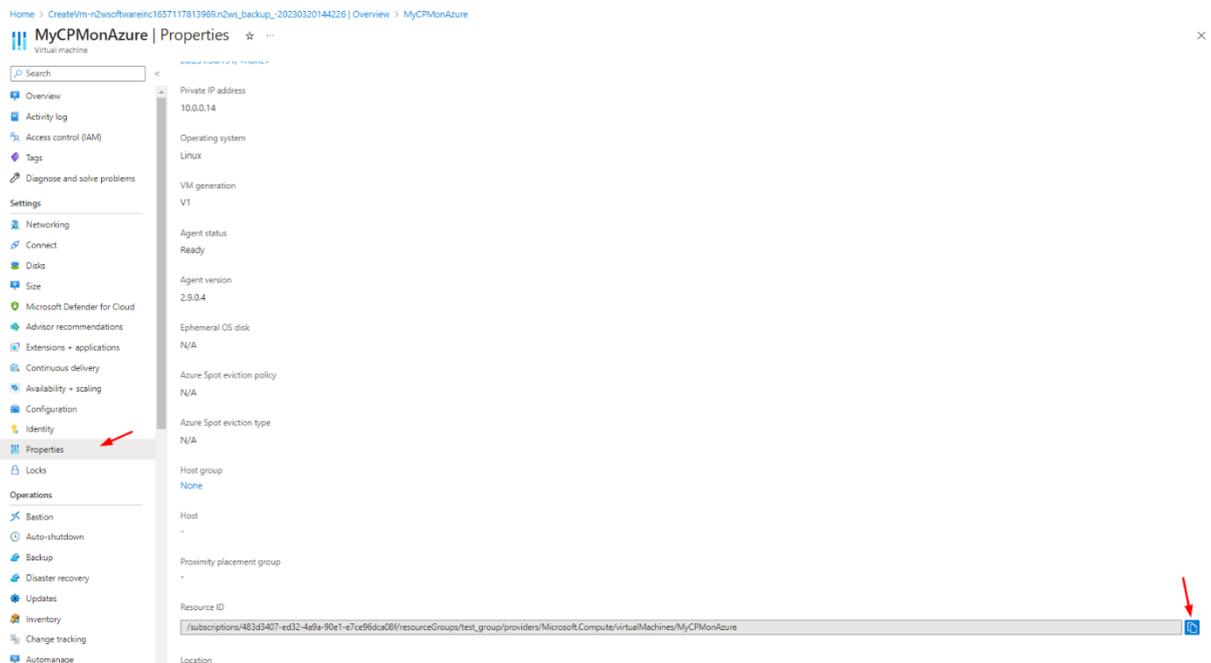
The Azure portion of the configuration is complete.



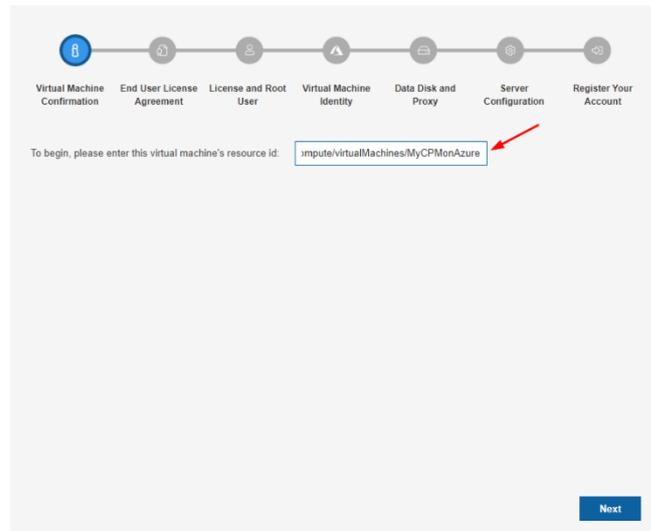
4 Configure N2WS on Azure with the Configuration Wizard

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. In 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.