

Guide to setup

# **ADSelfService Plus in Azure**

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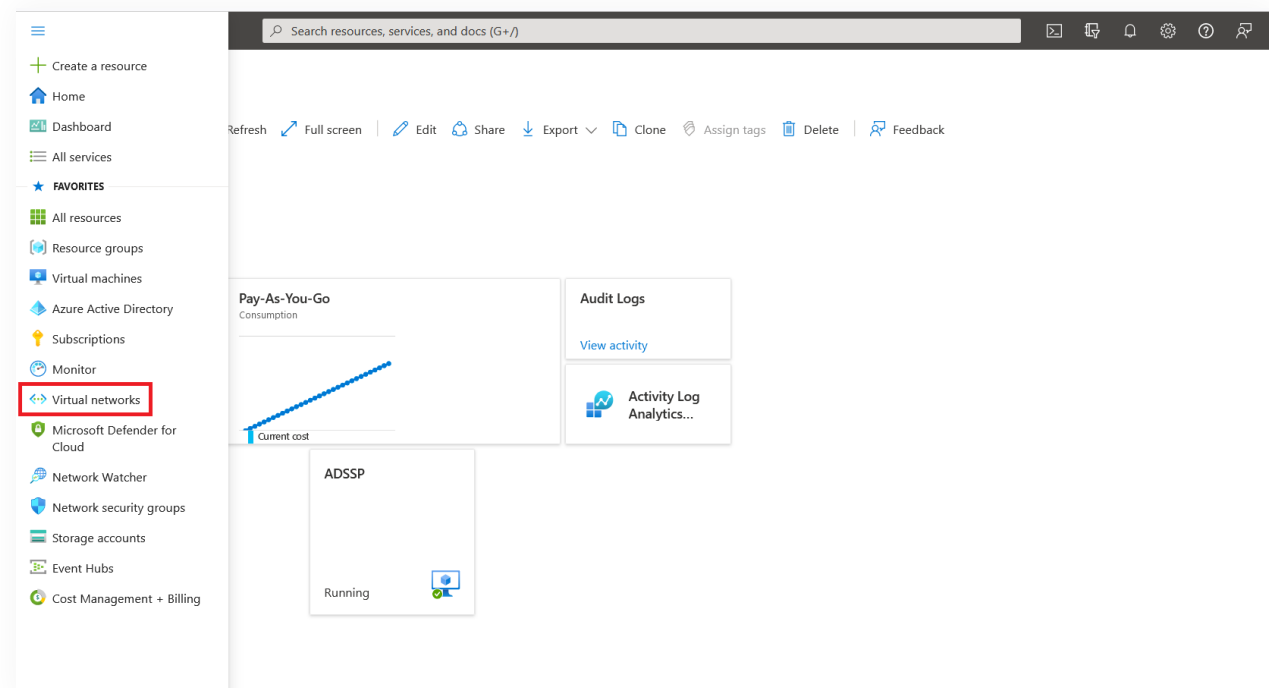
# 1. Document summary

This document will guide you through the steps involved in deploying ADSelfService Plus in Azure. The document is written with the assumption that you are a system administrator with a basic knowledge of remote desktop connection, Windows operating system, and Azure. However, care has been taken to keep the integration steps as simple as possible.

## 2. Steps to deploy ADSelfService Plus in Azure

### Step 1: Creating a virtual network for the Azure VM

1. Log in to your Azure portal through <https://portal.azure.com>.
2. In the upper-left corner of the portal, click the hamburger icon (=), and select **Virtual networks** from the menu that appears.



3. The Virtual networks page will open. Click + Create.

Microsoft Azure

Search resources, services, and docs (G+)

Dashboard > Virtual networks

Default Directory

**Create** Manage view Refresh Export to CSV Open query Assign tags Feedback

Filter for any field... Subscription == all Resource group == all Location == all Add filter

Showing 1 to 15 of 15 records. No grouping

Name	Resource group	Location	Subscription
1-vnet	1	South India	Pay-As-You-Go
1vnet219	1	East Asia	Pay-As-You-Go
ad360HA-vnet	ad360HA	Central India	Microsoft Azure
asiavn	southas	Southeast Asia	Pay-As-You-Go
CSP-DEMO-GROUP-vnet	CSP-DEMO-GROUP	East US	Microsoft Azure
cspVirtualNet	1	East Asia	Microsoft Azure
cspvirtunet	1	East Asia	Microsoft Azure
defe_group-vnet	defe_group	Central India	Pay-As-You-Go
delete1-vnet	delete1	Central US	Pay-As-You-Go
new	Goku	East Asia	Microsoft Azure
SSP-vnet	Validators	East Asia	Microsoft Azure
ssp-vnet	ssp	Central India	Microsoft Azure

< Previous Page 1 of 1 Next >

- On the Create virtual network page that opens, navigate to the Basics tab and fill in the mandatory information, such as Subscription and Resource group under Project details and Name and Region under Instance details.
- Click Next : IP Addresses.

Microsoft Azure

Search resources, services, and docs (G+)

Dashboard > Virtual networks > Create virtual network

Basics IP Addresses Security Tags Review + create

Azure Virtual Network (VNet) is the fundamental building block for your private network in Azure. VNet enables many types of Azure resources, such as Azure Virtual Machines (VM), to securely communicate with each other, the internet, and on-premises networks. VNet is similar to a traditional network that you'd operate in your own data center, but brings with it additional benefits of Azure's infrastructure such as scale, availability, and isolation. [Learn more about virtual network](#)

**Project details**

Subscription \* Microsoft Azure

Resource group \* ResGroup1  
[Create new](#)

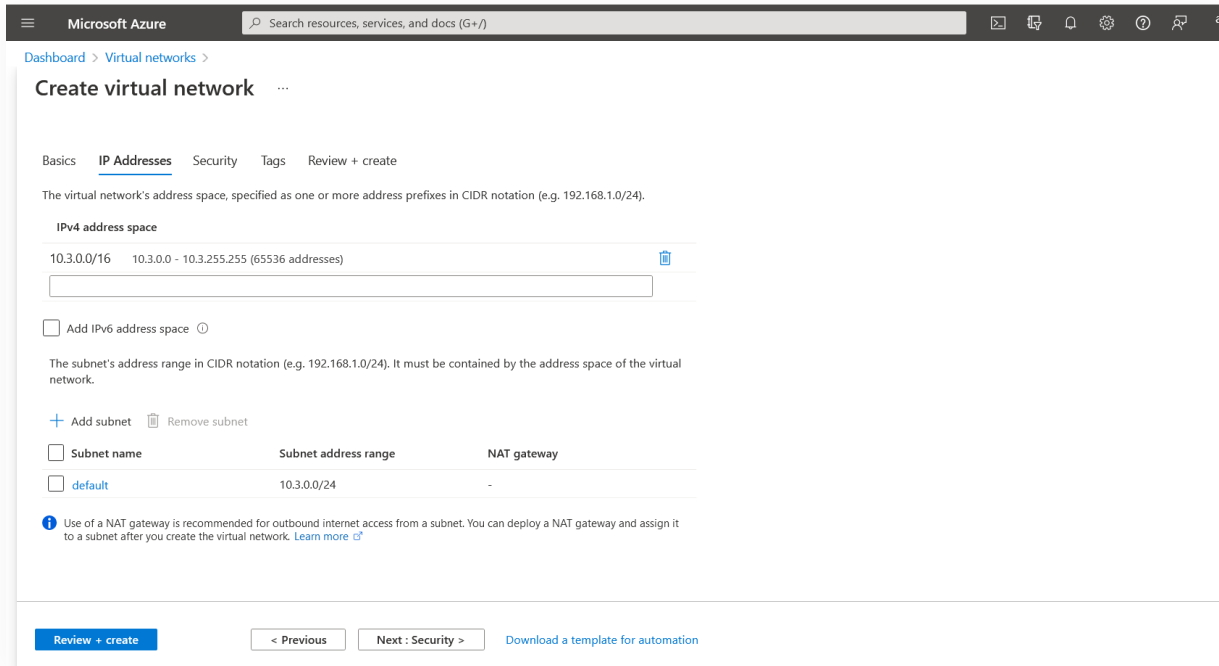
**Instance details**

Name \* adssp-vnet

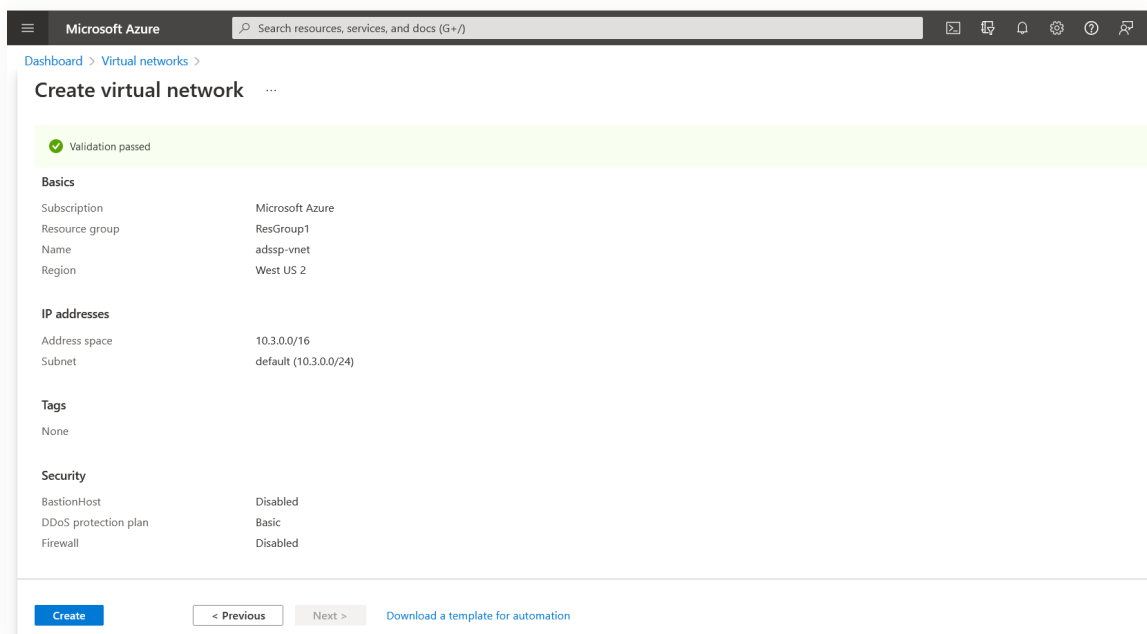
Region \* West US 2

Review + create < Previous Next : IP Addresses > Download a template for automation

6. Under the IP Addresses tab that opens, go to IPv4 address space. Select the existing IPv4 address space value or change it to your preferred one.
7. Select + Add subnet, then enter a Subnet name and the Subnet address range.
8. Click Add.
9. Click Review + create.



10. On the Review + create tab that opens, click Create.



## Step 2: Creating a virtual machine

1. Click the hamburger icon (=) again, and select Virtual machines from the menu that appears.
2. The Virtual machines page will open. Click + Create.

The screenshot shows the Microsoft Azure portal interface for Virtual Machines. At the top, there's a search bar and navigation icons. Below that, the 'Virtual machines' page is displayed with a 'Default Directory' label. A toolbar contains options like '+ Create', 'Switch to classic', 'Reservations', 'Manage view', 'Refresh', 'Export to CSV', 'Open query', 'Assign tags', 'Start', 'Restart', 'Stop', 'Delete', 'Services', and 'Maintenance'. A filter bar shows 'Subscription == all', 'Resource group == all', 'Location == all', and 'Resource group == ssp'. Below the filters, it says 'Showing 1 to 3 of 3 records.' A table lists three VMs:

Name	Subscription	Resource group	Location	Status	Operating system	Size	Public IP address	Disks
SSPAZUREHA1	Microsoft Azure	ssp	Central India	Stopped (deallocated)	Windows	Standard_DS1_v2	-	1
SSPAZUREHA2	Microsoft Azure	ssp	Central India	Stopped (deallocated)	Windows	Standard_DS1_v2	-	1
SSPAZURETEST	Microsoft Azure	ssp	Central India	Running	Windows	Standard_DS1_v2	20.204.142.152	1

At the bottom, there are navigation controls for 'Previous', 'Page 1 of 1', and 'Next'.

3. On the Basics tab, fill in the mandatory fields, such as Subscription and Resource group under Project details and Virtual machine name, Region, Image, and Size under Instance details.

The screenshot shows the 'Create a virtual machine' form in the Microsoft Azure portal, specifically the 'Basics' tab. The form is divided into 'Project details' and 'Instance details' sections.

**Project details:**

- Subscription: Microsoft Azure
- Resource group: (New) Resource group

**Instance details:**

- Virtual machine name: [Empty field]
- Region: (US) Central US
- Availability options: No infrastructure redundancy required
- Security type: Standard
- Image: Windows Server 2019 Datacenter - Gen1

At the bottom, there are navigation buttons: 'Review + create', '< Previous', and 'Next: Disks >'.

4. Create an administrator account by providing a Username and Password under Administrator account.
5. Under Inbound port rules, select Allow selected ports for Public inbound ports. On the Select inbound ports drop-down, select RDP (3389).

Microsoft Azure

Dashboard > Create a resource >

### Create a virtual machine

Image \*

Azure Spot instance

Size \*

**Administrator account**

Username \*

Password \*

Confirm password \*

**Inbound port rules**

Select which virtual machine network ports are accessible from the public internet. You can specify more limited or granular network access on the Networking tab.

Public inbound ports \*  None  Allow selected ports

Select inbound ports \*

[Review + create](#) [< Previous](#) [Next : Disks >](#)

6. Enter the license details required under Licensing.
7. Click Next : Disks.

Microsoft Azure

Dashboard > Create a resource >

### Create a virtual machine

**Inbound port rules**

Select which virtual machine network ports are accessible from the public internet. You can specify more limited or granular network access on the Networking tab.

Public inbound ports \*  None  Allow selected ports

Select inbound ports \*

**⚠ This will allow all IP addresses to access your virtual machine.** This is only recommended for testing. Use the Advanced controls in the Networking tab to create rules to limit inbound traffic to known IP addresses.

**Licensing**

Save up to 49% with a license you already own using Azure Hybrid Benefit. [Learn more](#)

Would you like to use an existing Windows Server license? \*

[Review Azure hybrid benefit compliance](#)

[Review + create](#) [< Previous](#) [Next : Disks >](#)

8. On the Disks tab, under Disk options, select the OS disk type and Encryption type of your virtual machine.

9. Click Next : Networking.

The screenshot shows the 'Create a virtual machine' page in the Microsoft Azure portal, specifically the 'Disks' tab. The page includes the following elements:

- Navigation:** Dashboard > Create a resource > Create a virtual machine. Sub-tabs include Basics, Disks (selected), Networking, Management, Advanced, Tags, and Review + create.
- Introduction:** Azure VMs have one operating system disk and a temporary disk for short-term storage. You can attach additional data disks. The size of the VM determines the type of storage you can use and the number of data disks allowed. [Learn more](#)
- Disk options:**
  - OS disk type: Premium SSD (locally-redundant storage)
  - Encryption type: (Default) Encryption at-rest with a platform-managed key
  - Enable Ultra Disk compatibility:  (Note: Ultra disk is not supported for the selected VM size Standard\_DS1\_V2 in Central US.)
- Data disks:** You can add and configure additional data disks for your virtual machine or attach existing disks. This VM also comes with a temporary disk.
 

LUN	Name	Size (GiB)	Disk type	Host caching
<a href="#">Create and attach a new disk</a> <a href="#">Attach an existing disk</a>				
- Advanced:** A section for advanced settings, currently collapsed.
- Navigation:** Review + create (button), < Previous (button), Next: Networking > (button)

9. On the Networking tab, under Network interface, fill in the fields provided with the following information:

- Virtual network:** Select the name of the virtual machine created in [Step 1](#).
- Subnet:** Select the IP address space subnet created in [Step 1](#).
- Public inbound ports:** Select the Allow selected ports check box.
- Select inbound ports:** Select RDP (3389).

10. Click Review + Create.



Microsoft Azure

Dashboard > Create a resource >

## Create a virtual machine

**Network interface**

When creating a virtual machine, a network interface will be created for you.

Virtual network \*  [Create new](#)

Subnet \*  [Manage subnet configuration](#)

Public IP  [Create new](#)

NIC network security group  None  
 Basic  
 Advanced

Public inbound ports \*  None  
 Allow selected ports

Select inbound ports \*

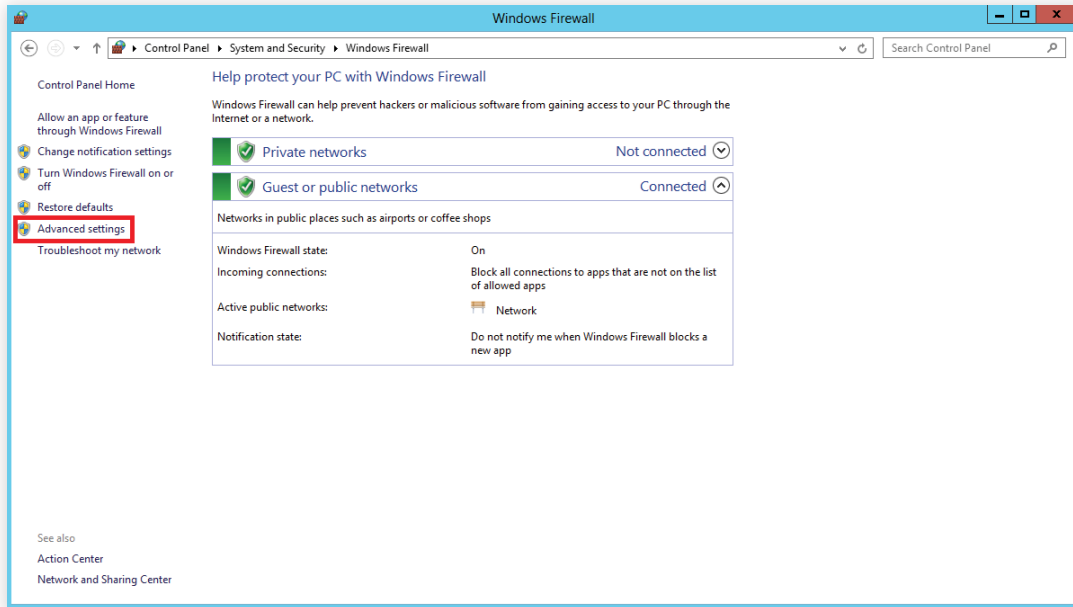
**⚠ This will allow all IP addresses to access your virtual machine.** This is only recommended for testing. Use the Advanced controls in the Networking tab to create rules to limit inbound traffic to known IP addresses.

[Review + create](#) [< Previous](#) [Next : Management >](#)

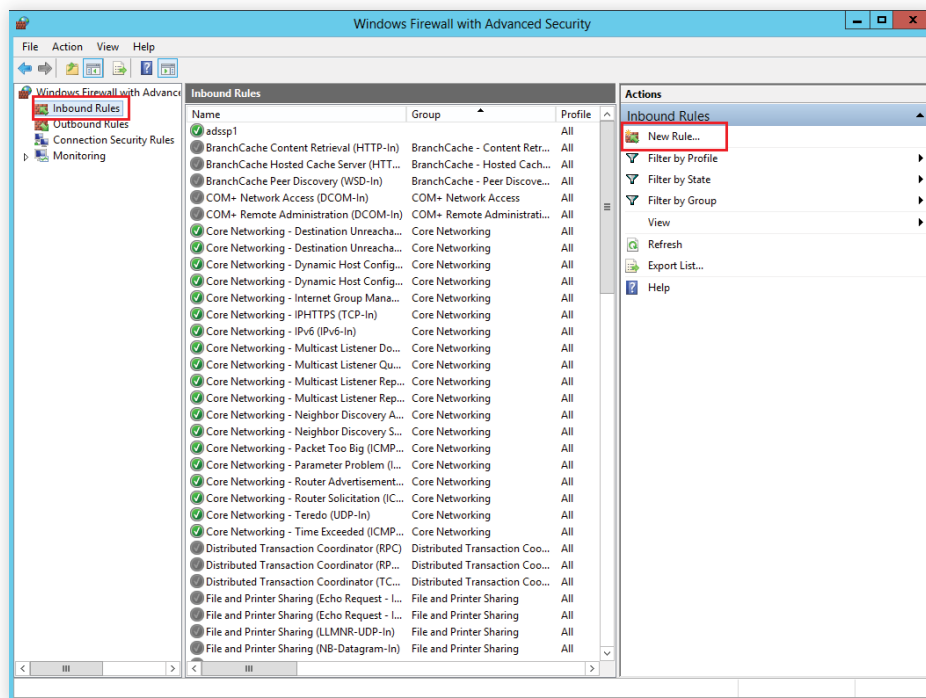
10. Click Create.

### Step 3: Installing ADSelfService Plus

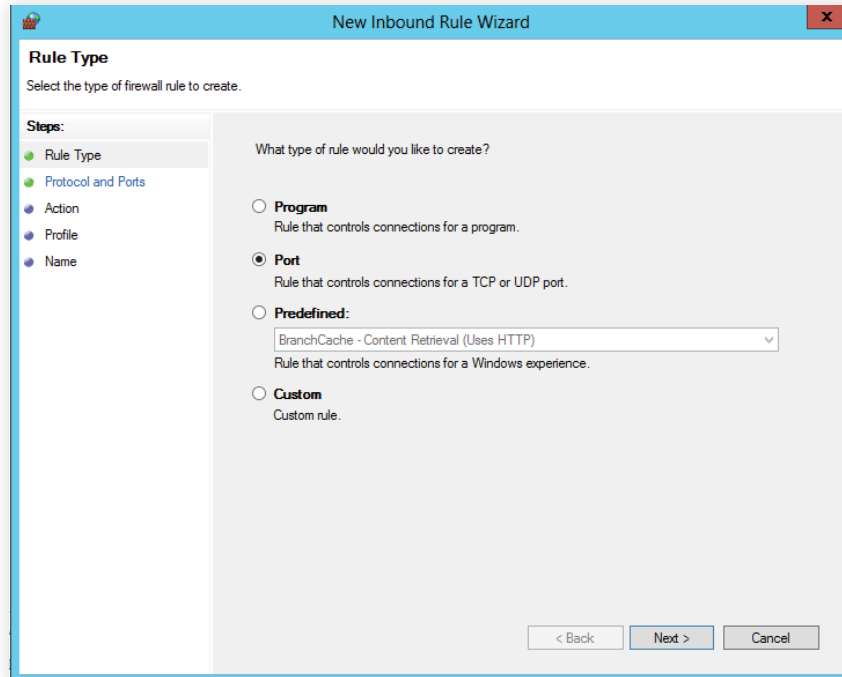
1. Establish a remote desktop connection with the VM created in [Step 2](#). Please refer this [document](#) for steps. The further steps have to performed in the VM itself.
2. Download ADSelfService Plus from [here](#), in the VM.
3. Install the application.
4. Create an inbound firewall rule to allow traffic to this server on ADSelfService Plus port.  
To create an inbound rule:
  - On the computer, select Start menu and go to Control Panel → System and Security → Windows Firewall.
  - In the navigation pane, choose Advanced Settings.



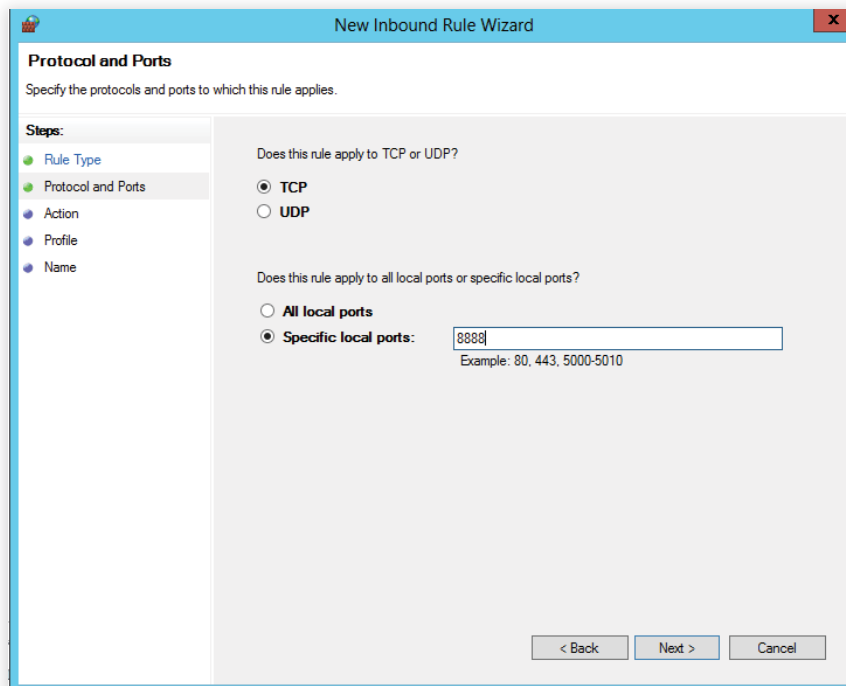
- In the navigation pane of Windows Firewall with Advanced Settings window that opens, choose Inbound Rules.
- In the Actions pane, choose New Rule.



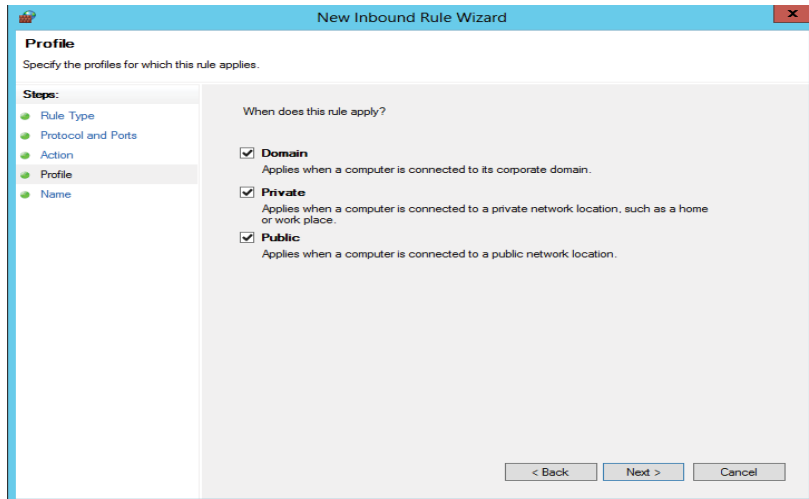
- In the Rule Type page, choose Port, and click Next.



- In the Protocol and Ports page, choose Specific local ports, and then enter the port number of ADSelfService Plus. (Default port number is 8888 )



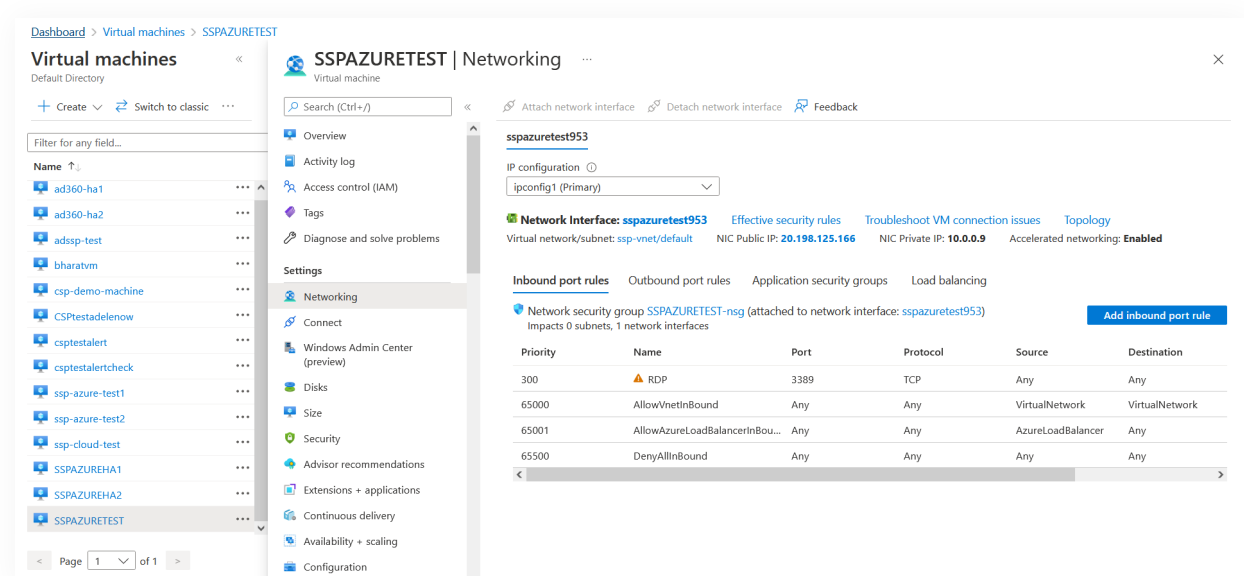
- Click Next.
- In the Action page, choose Allow the connection, and click Next.
- In the Profile page, choose when this rule must be applied, (you can select all three options if required) and click Next.



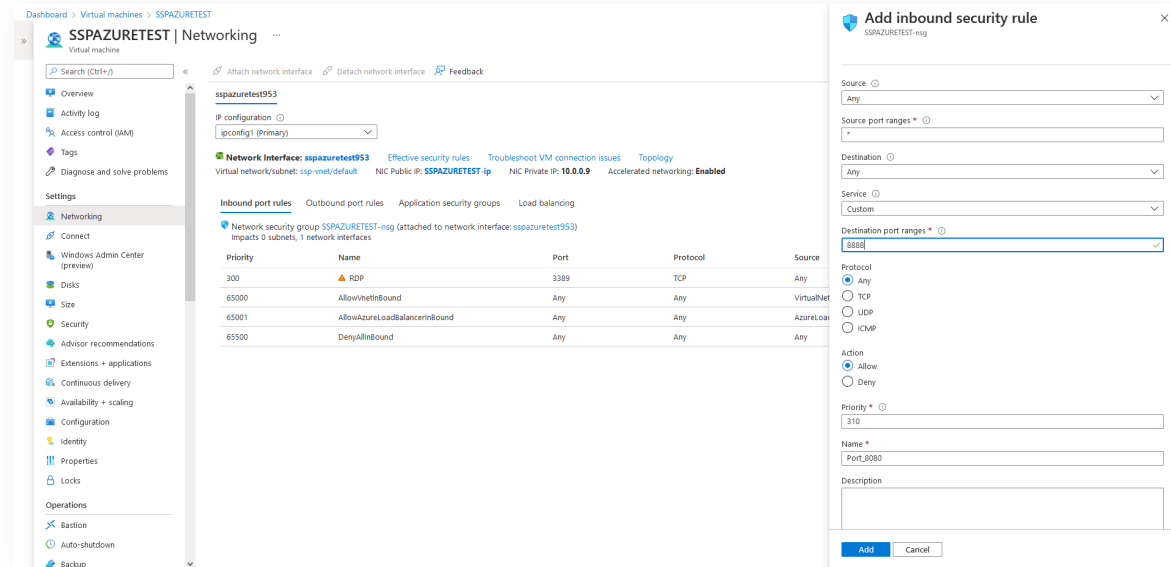
- In the Name page, type a name for the rule, and then click Finish.

## Step 4: Configuring ADSelfService Plus to receive traffic over the internet

1. Go back to the Azure portal.
2. In the upper-left corner of the portal, click the hamburger icon (<icon>), and select **Virtual machines** from the menu that appears.
3. A list of the virtual machines created is displayed. Select the virtual machine you created in [Step 1](#). A section dedicated to the virtual machine will appear.
4. From the menu on the left-hand side of this section, click **Networking** under Settings.
5. The Networking page will open for the virtual machine.
6. Go to the **Inbound port rules** tab. Click **Add inbound port rule**.



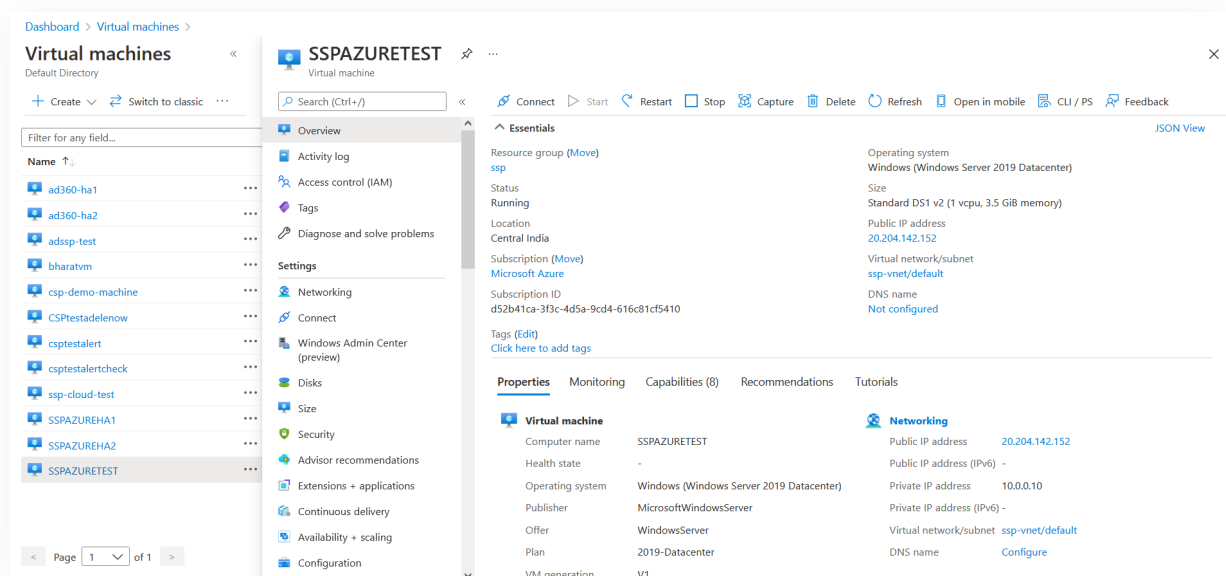
- The Add inbound security rule pop-up will appear. Enter the port information for ADSelfService Plus, such as Destination port ranges (you will have to enter the port number provided while installing ADSelfService Plus in the virtual machine), Protocol, Priority, and Name. Provide any mandatory information requested for the virtual machine.



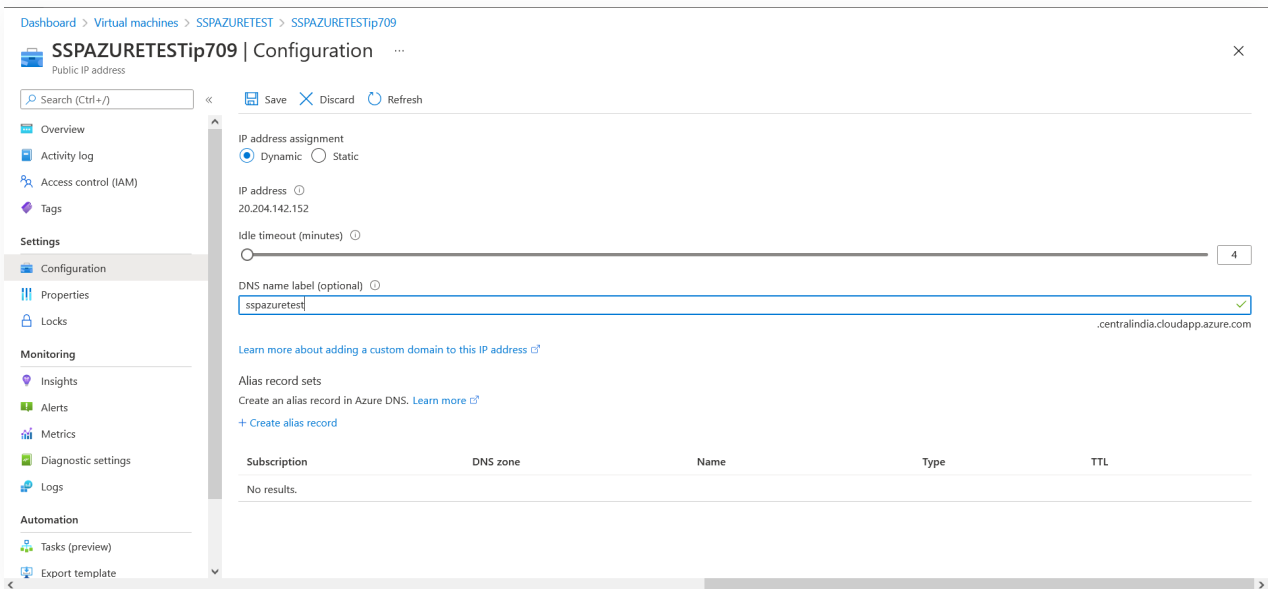
- Click Add.

## Step 5: Accessing ADSelfService Plus hosted in an Azure virtual machine through the internet

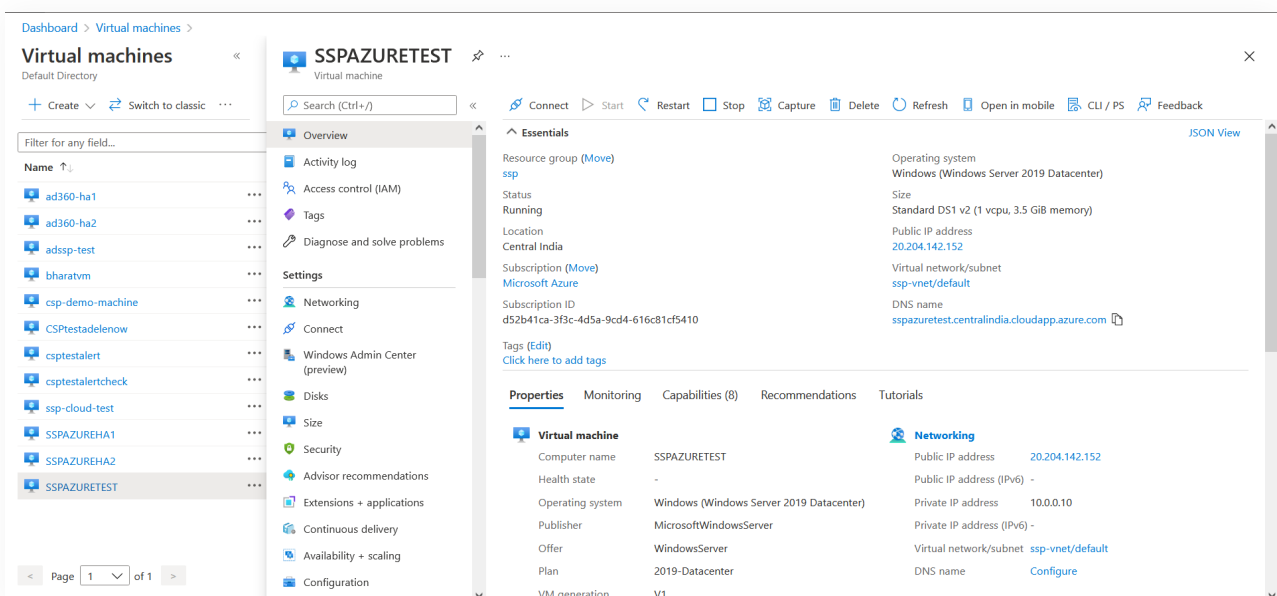
- Go back to Virtual machines and select the virtual machine created in [Step 1](#).



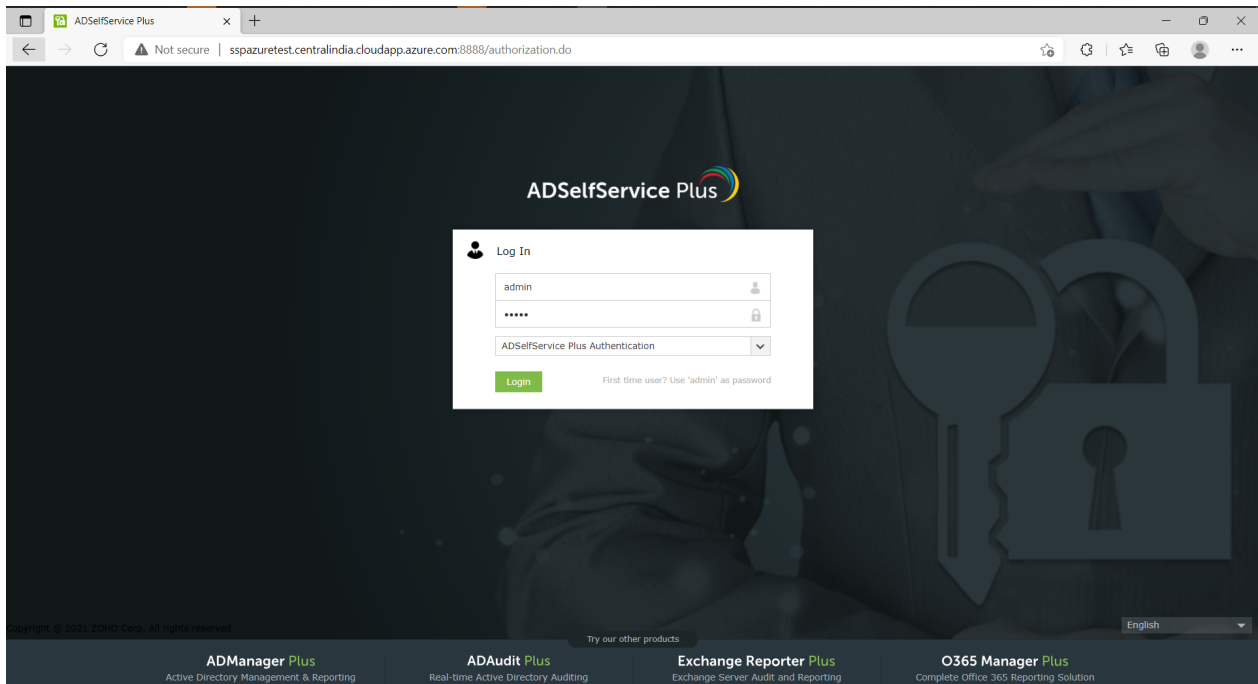
2. An overview of the virtual machine will be displayed.
3. Under the Properties tab, go to **Networking** and click **Configure** for DNS name.
4. The DNS configuration tab will open.



5. Select **Dynamic** next to IP address assignment. Add a DNS name label.
6. Click **Save**.
7. Your DNS name will now display on the overview page.



8. The URL to access ADSelfService Plus through the virtual machine will be <DNS name>.cloudapp.net :<ADSelfService Plus port>.



## About ADSelfService Plus

ADSelfService Plus is an identity security solution to ensure secure and seamless access to enterprise resources and establish a Zero Trust environment. With capabilities such as adaptive multi-factor authentication, single sign-on, self-service password management, a password policy enhancer, remote work enablement and workforce self-service, ADSelfService Plus provides your employees with secure, simple access to the resources they need. ADSelfService Plus helps keep identity-based threats out, fast-tracks application onboarding, improves password security, reduces help desk tickets and empowers remote workforces. For more information about ADSelfService Plus, visit <https://www.manageengine.com/products/self-service-password>.

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