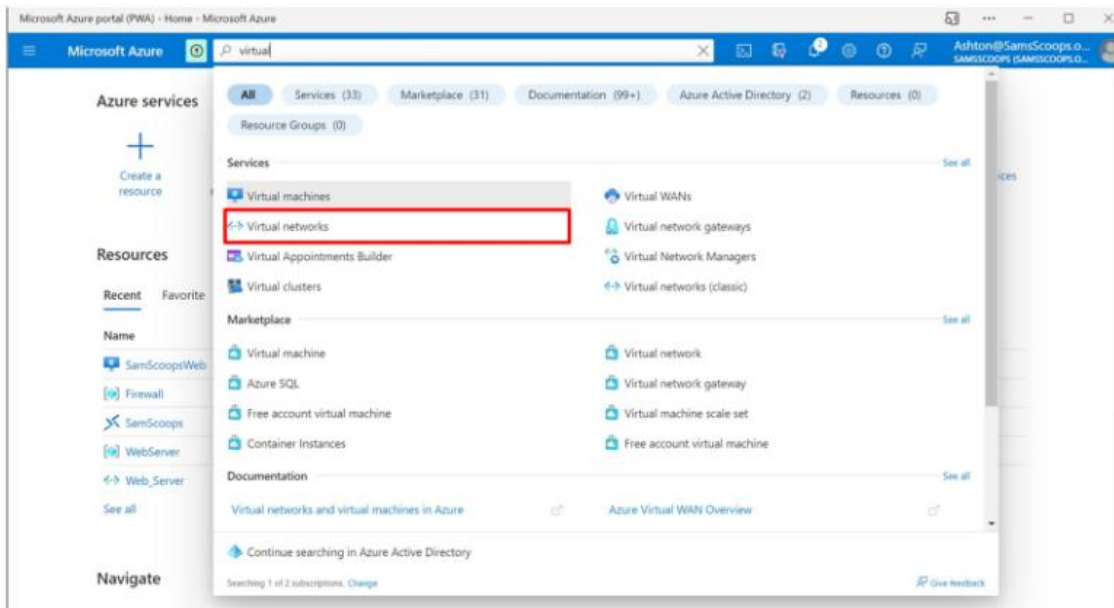


Step 1: Set up and configure Azure Bastion for the SamScoopsWeb VM

1. From the Azure portal home page use the search function to find **Virtual networks** and select it.



2. Select the **Web_Server** network.

Microsoft Azure portal (PWA) - Virtual networks - Microsoft Azure

Microsoft Azure

Search resources, services, and docs (G+)

Ashton@SamsScoops.o...
SAMSSCOOPS (GAMESCOOPLO...)

Home >

Virtual networks

SamsScoops (SamsScoops.onmicrosoft.com)

+ Create Manage view Refresh Export to CSV Open query Assign tags

Filter for any field... Subscription equals Azure subscription 1 Resource group equals all Location equals all Add filter

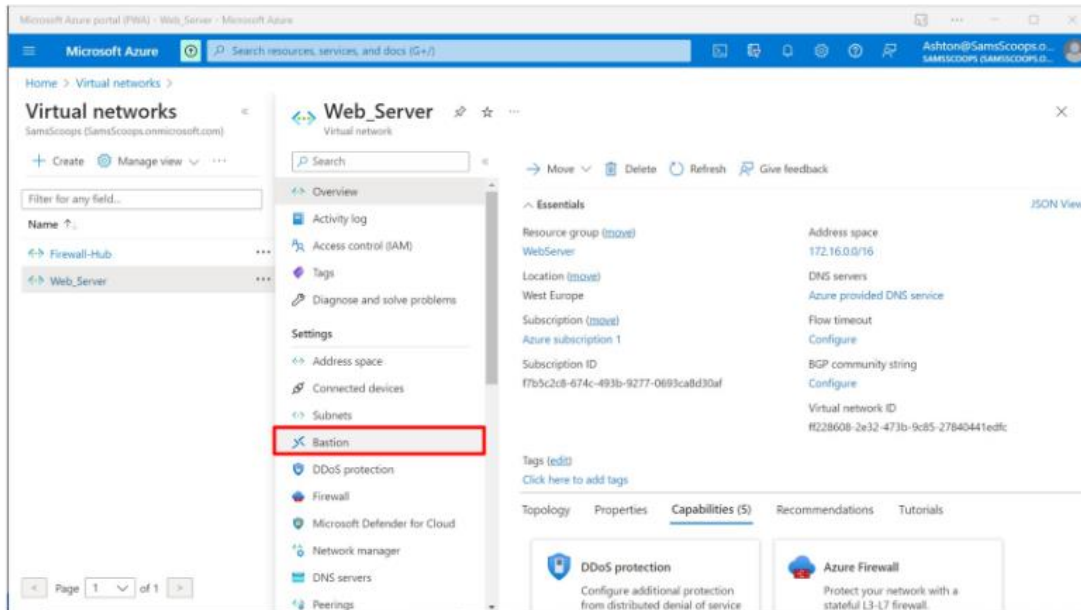
Showing 1 to 2 of 2 records. No grouping List view

<input type="checkbox"/> Name ↑	Resource group ↑	Location ↑	Subscription ↑
<input type="checkbox"/> Firewall-Hub	Firewall	West Europe	Azure subscription 1
<input type="checkbox"/> Web_Server	WebServer	West Europe	Azure subscription 1

< Previous Page 1 of 1 Next >

Give feedback

3. On the page for the virtual network, in the left pane, select **Bastion** to open the Bastion page.



4. On the Bastion page, select **I want to configure Azure Bastion on my own**.

Microsoft Azure portal (PWA) - Web_Server - Microsoft Azure

Microsoft Azure Search resources, services, and docs (G+)

Home > Virtual networks > Web_Server

Virtual networks SamsScoops (SamsScoops.onmicrosoft.com)

+ Create Manage view Filter for any field...

Name Web_Server

Web_Server | Bastion

Overview Activity log Access control (IAM) Tags Diagnose and solve problems

Settings Address space Connected devices Subnets Bastion DDoS protection Firewall Microsoft Defender for Cloud Network manager DNS servers Peerings

Create Bastion

Name Web_Server-bastion

Resource group RG_Web_Server

Virtual network Web_Server

Public IP address Web_Server-ip

In order to create a Bastion, a subnet with name 'AzureBastionSubnet' with at least 64 addresses is required. Your virtual network doesn't have the required address space for creating this subnet. Please add the required address space below and then proceed with Bastion creation.

Address space	Address range	Address count
172.16.1.0/24	172.16.1.0 - 172.16.1.255	256
Example: XXX.X/27		

Bastion pricing starts with an hourly base rate. Learn more

Create Azure Bastion using defaults I want to configure Azure Bastion on my own

Tell us what you think of the Bastion experience

- On the **Create a Bastion** page, configure the settings for the Bastion host. To configure the instance details give the instance a Name, "SamScoops". For the **Region**, select the same region you chose for your SamScoopsWeb VM. For the **Tier**, select **Standard**. Leave the instance at the default of **2**.

Microsoft Azure portal (PWA) - Create a Bastion - Microsoft Azure

Microsoft Azure Search resources, services, and docs (G+)

Home > Virtual networks > Web_Server | Bastion >

Create a Bastion

Basics Tags Advanced Review + create

Bastion allows web based RDP access to your vnet VM. [Learn more](#) ⓘ

Project details

Subscription * Azure subscription 1 (f7b5c2c8-674c-493b-9277-0693ca8d30af) ▼

Resource group * WebServer ▼
[Create new](#)

Instance details

Name * SamScoops ▼

Region * West Europe ▼

Tier * ⓘ Standard ▼

Instance count * ⓘ ☐ 1 ☒ 2

Configure virtual networks

Virtual network * ⓘ ▼

[Review + create](#) [Previous](#) [Next: Tags >](#) [Download a template for automation](#)

6. Configure the virtual networks settings by selecting the **Web_server** VNet from the dropdown menu.

7. To configure the **AzureBastionSubnet**, select **Manage subnet configuration**.

Microsoft Azure portal (PWA) - Create a Bastion - Microsoft Azure

Microsoft Azure Search resources, services, and docs (G+)

Home > Virtual networks > Web_Server | Bastion >

Create a Bastion

Tier ☐ Standard

Instance count ☐ 2

Configure virtual networks

Virtual network ☐ Web_Server

Create new

To associate a virtual network with a Bastion, it must contain a subnet with name AzureBastionSubnet and a prefix of at least /26

Subnet ☐ Manage subnet configuration

Public IP address

Public IP address ☐ Create new ☐ Use existing

Public IP address name ☐ Web_Serverip572

Public IP address SKU Standard

Assignment ☐ Dynamic ☒ Static

[Review + create](#) [Previous](#) [Next: Tags >](#) [Download a template for automation](#)

8. On the subnets page select **+Subnet**. Create the **AzureBastionSubnet** subnet using the following values. The subnet name must be "AzureBastionSubnet". The subnet address range for SamScoops is **172.16.2.0/24**. Leave the other values as default. Select **Save** at the bottom of the page to save your values.

The screenshot shows the Microsoft Azure portal interface. On the left, the navigation pane is open, showing the 'Subnets' section under 'Web_Server'. The main area displays the 'Add subnet' dialog box. The dialog has the following fields and values:

- Name ***: AzureBastionSubnet
- Subnet address range ***: 172.16.2.0/24
- Add IPv6 address space**: ☐
- NAT gateway**: None
- Network security group**: None
- Route table**: None
- SERVICE ENDPOINTS**: Create service endpoint policies to allow traffic to specific azure resources from your virtual network over service endpoints. [Learn more](#)
- Services**: All selected

The 'Save' button at the bottom of the dialog is highlighted in red.

9. At the top of the Subnets page, select **Create a Bastion** to return to the Bastion configuration page.

The screenshot shows the Microsoft Azure portal interface. In the top navigation bar, the 'Create a Bastion' link is highlighted with a red box. The main content area displays the 'Web_Server | Subnets' page. On the right side, the 'Add subnet' dialog box is open, showing the following configuration:

- Name:** AzureBastionSubnet
- Subnet address range:** 172.16.2.0/24
- NAT gateway:** None
- Network security group:** None
- Route table:** None

The dialog box also includes a 'SERVICE ENDPOINTS' section with a 'Services' dropdown menu set to '0 selected'. At the bottom of the dialog, there are 'Save' and 'Cancel' buttons.

10. Select **Create new** under **Public IP address** You can leave the default naming suggestion.

11. When you finish specifying the settings, select **Review + Create**. This validates the values.

Microsoft Azure portal (PWA) - Create a Bastion - Microsoft Azure

Microsoft Azure Search resources, services, and docs (G+/I) Ashton@SamsScoops.co.uk SAMSSCOOPS (SAMSSCOOPS)

Home > Virtual networks > Web_Server > Bastion >

Create a Bastion

Region * West Europe

Tier * Standard

Instance count * 2

Configure virtual networks

Virtual network * Web_Server
[Create new](#)

Subnet * AzureBastionSubnet (172.16.2.0/24)
[Manage subnet configuration](#)

Public IP address

Public IP address * ☒ Create new ☐ Use existing

Public IP address name * Web_Serverip572 ✓

Public IP address SKU Standard

Assignment ☐ Dynamic ☒ Static

Review + create Previous Next: Tags > [Download a template for automation](#)

12. Once validation passes, you can deploy Bastion. Select **Create**.

Microsoft Azure portal (PWA) - Create a Bastion - Microsoft Azure

Microsoft Azure Search resources, services, and docs (G+/)

Home > Virtual networks > Web_Server | Bastion >

Create a Bastion

Validation passed

Basics Tags Advanced Review + create

Summary

Basics	
Name	SamScoops
Subscription	Azure subscription 1
Resource group	WebServer
Region	West Europe
Virtual network	Web_Server
Tier	Standard
Subnets	AzureBastionSubnet
Public IP address	Firewallpub
Instance count	2
Copy and paste	Enabled
IP-based connection	Disabled
Kerberos authentication	Disabled
Shareable Link	Disabled
Native client support	Disabled

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

There will be a message letting you know that your deployment is in process. The status will display on this page as the resources are created. It takes about 10 minutes for the Bastion resource to be created and deployed.

The screenshot shows the Microsoft Azure portal interface. At the top, the breadcrumb navigation reads "Microsoft Azure portal (PWA) > Microsoft.BastionHost-20230517102949 > Microsoft Azure". The main header bar includes the "Microsoft Azure" logo, a search bar, and the user profile "Ashton@SamsScoops.o...".

The main content area is titled "Microsoft.BastionHost-20230517102949 | Overview". Below the title, there is a "Deployment" section with a search bar and action buttons: "Delete", "Cancel", "Redeploy", "Download", and "Refresh".

The left sidebar contains a navigation menu with "Overview" (selected), "Inputs", "Outputs", and "Template".

The main content area displays a "Deployment is in progress" message. It includes the following details:

- Deployment name: Microsoft.BastionHost-20230517102...
- Subscription: Azure subscription 1 (d7b5c2b8-674c-493b-...
- Resource group: WebServer
- Start time: 5/17/2023, 10:29:51 AM
- Correlation ID: 260996e7-025f-4a56-a35e-7fd1

Below this information is a "Deployment details" section with a table. The table has four columns: "Resource", "Type", "Status", and "Operation details". The table is currently empty, with the text "No results." displayed below it.

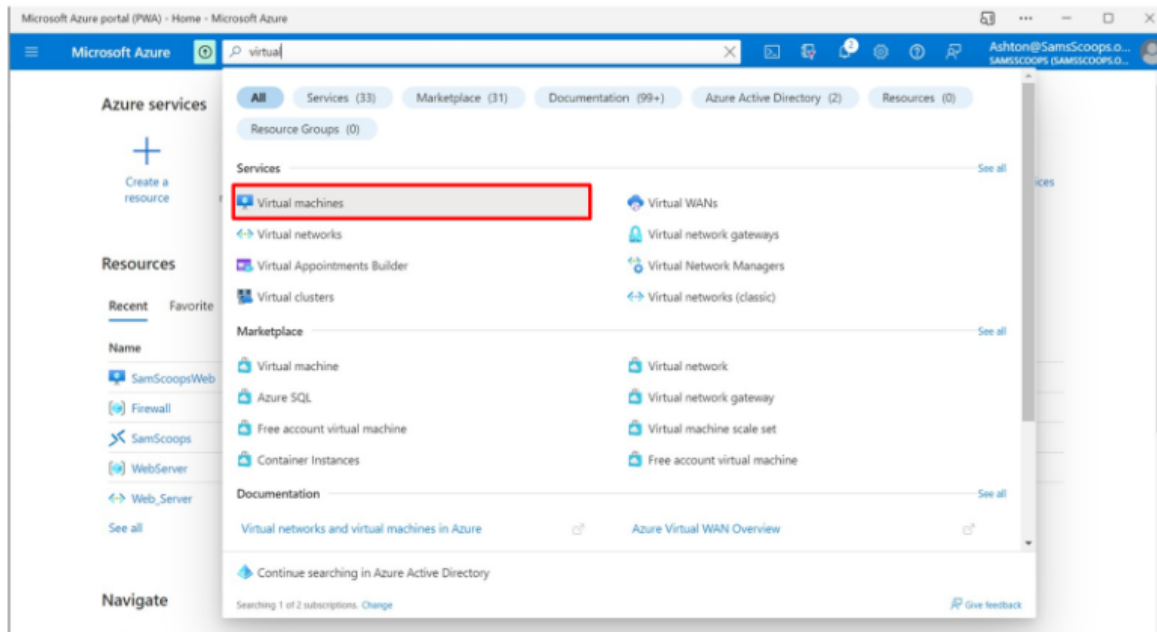
On the right side of the main content area, there are three promotional cards:

- Microsoft Defender for Cloud**: Secure your apps and infrastructure. [Go to Microsoft Defender for Cloud >](#)
- Free Microsoft tutorials**: Start learning today >
- Work with an expert**: Azure experts are service provider partners who can help manage your assets on Azure and be your first line of support. [Find an Azure expert >](#)

A notification banner at the top right of the main content area reads: "Deployment in progress... Deployment to resource group 'WebServer' is in progress."

Step 2: Testing the Azure Bastion connection

1. In the Azure portal, search and select **Virtual machines**.



2. Select the **SamScoopsWeb** VM.

Microsoft Azure portal (PWA) - Virtual machines - Microsoft Azure

Microsoft Azure Search resources, services, and docs (G+)

Ashton@SamScoops.o... SAMSCOOPS (SAMSCOOPS.O...)

Home > Virtual machines SamScoops (SamScoops.onmicrosoft.com)

+ Create Switch to classic Reservations Manage view Refresh Export to CSV Open query Assign tags Start Restart Stop

Filter for any field... Subscription equals Azure subscription 1 Type equals all Resource group equals all Location equals all Add filter

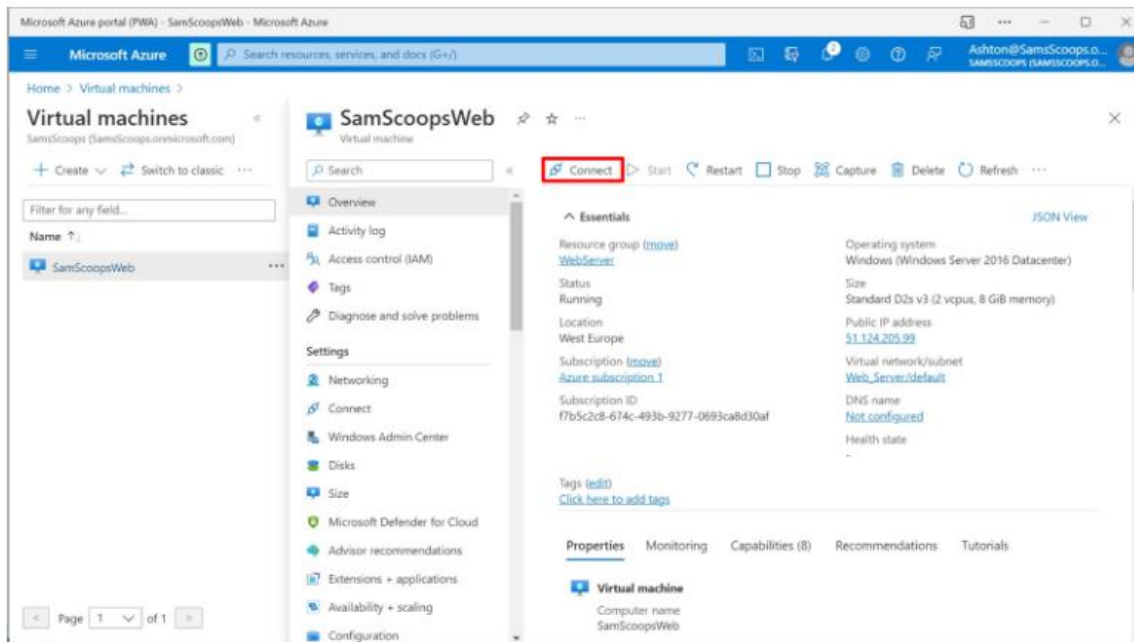
Showing 1 to 1 of 1 records. No grouping List view

<input type="checkbox"/> Name ↑↓	Type ↑↓	Subscription ↑↓	Resource group ↑↓	Location ↑↓	Status ↑↓	Operating system ↑↓	Size ↑↓
<input checked="" type="checkbox"/> SamScoopsWeb	Virtual machine	Azure subscription 1	WebServer	West Europe	Running	Windows	Standard_D2s_v3

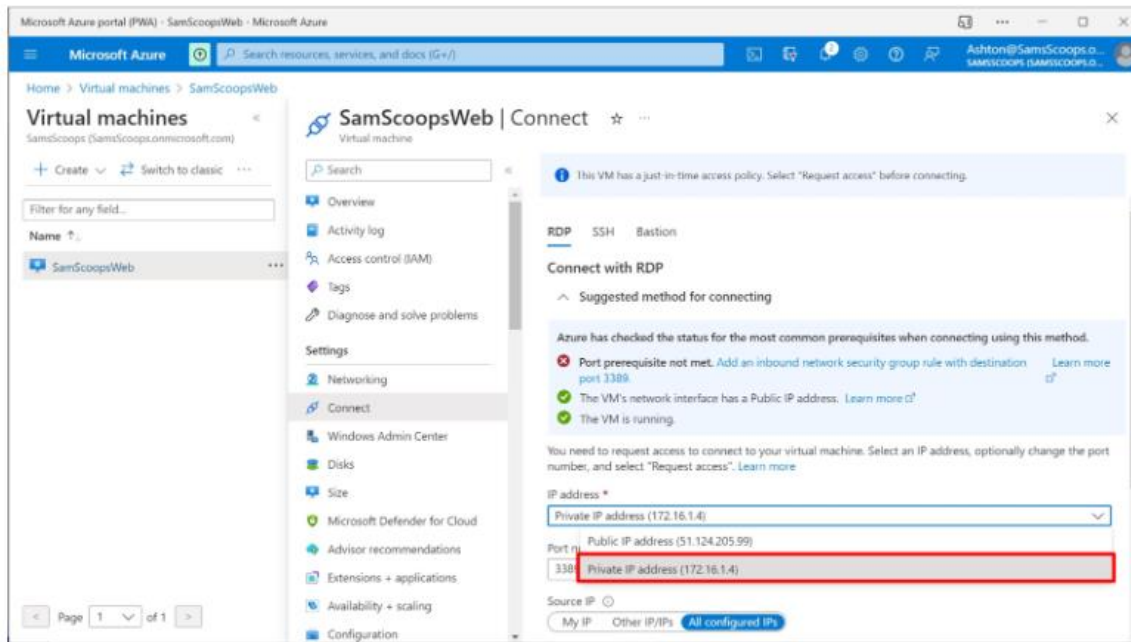
< Previous Page 1 of 1 Next >

Give feedback

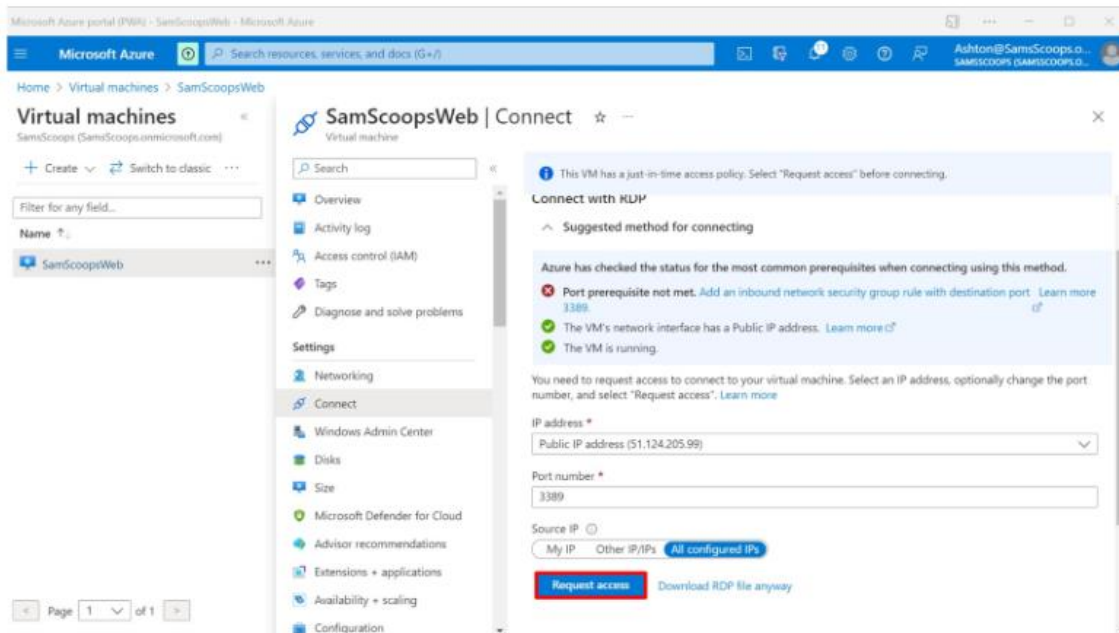
3. At the top of the page, select **Connect**.



4. From the IP address drop down select **Private IP address**.



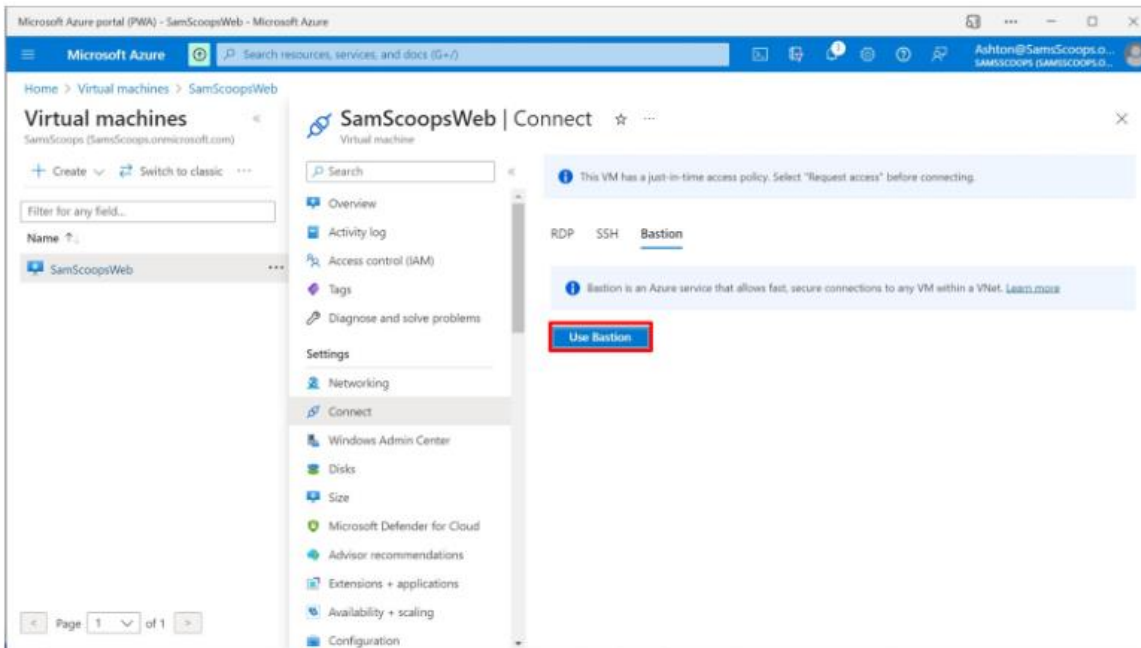
5. Select **Request access**.



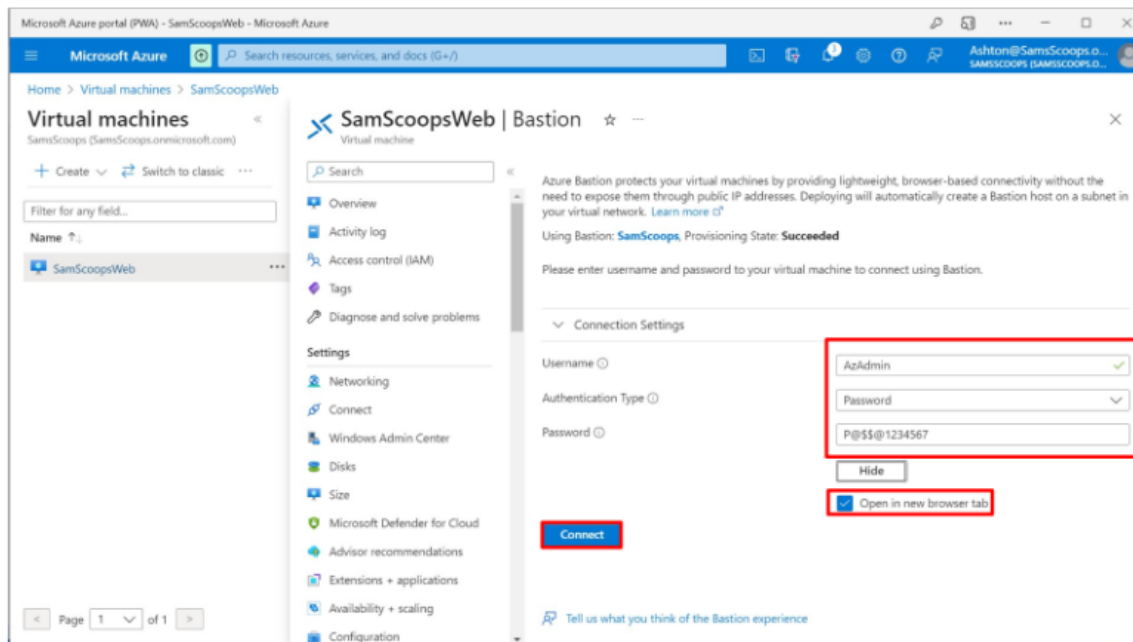
You'll note a message in the top right corner saying that the request has been approved.

6. At the top of the page, select **Bastion** to go to the Bastion page.

7. Select **Use Bastion**.



8. Complete the required authentication values. In this case, for the SamScoops VM the username is **AzAdmin** and **P@\$\$@1234567** is the password.
9. To open the VM session in a new browser tab, leave **Open in a new browser tab** selected.
10. Click **Connect** to connect to the VM.



The connection to this virtual machine, via Bastion, will open directly in the Azure portal (over HTML5) using port 443 and the Bastion service.

