

# Azure Arc | Quick Guide

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### Overview of Azure Arc

**Azure Arc** empowers organizations to innovate and manage infrastructure anywhere—on-premises, in public clouds, or at the edge. It simplifies resource management and extends Azure capabilities beyond the Azure cloud. The platform offers robust governance, monitoring, and security features to ensure consistency across diverse environments.

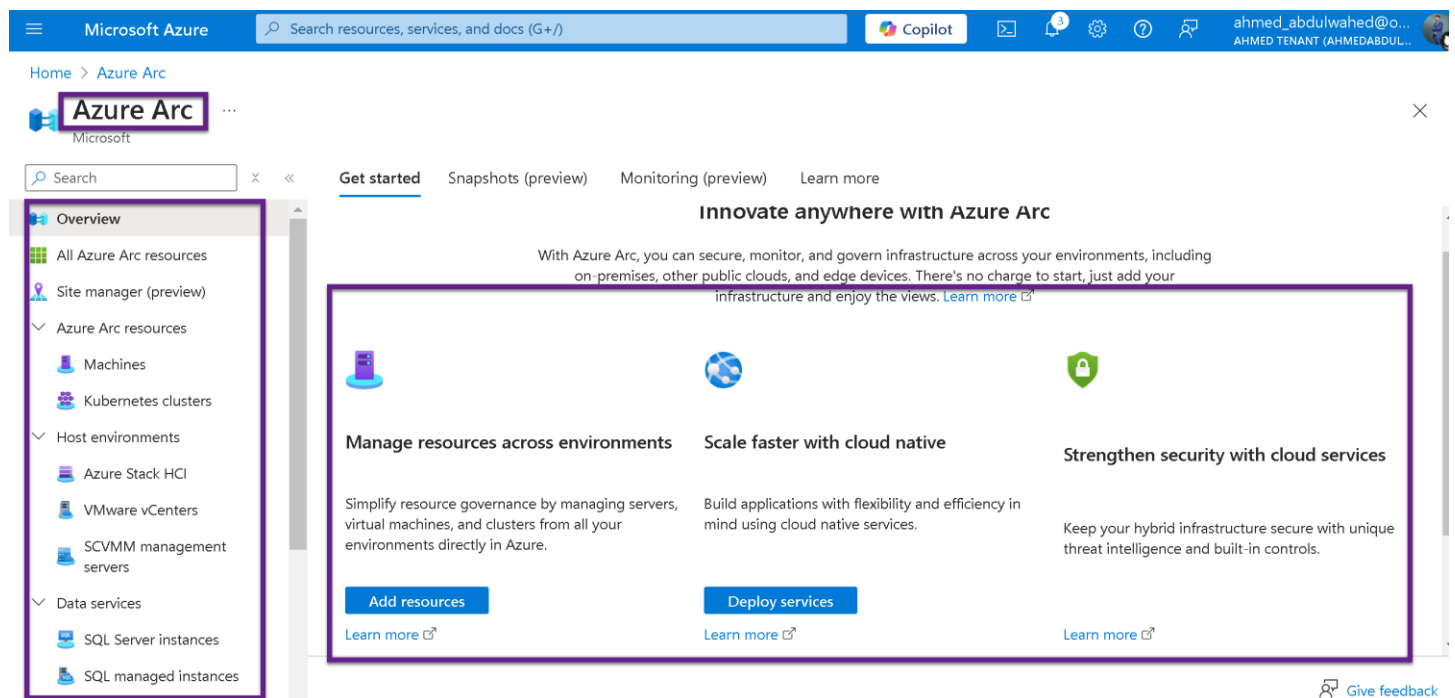
### Key Features

1. **Manage Resources Across Environments:** Simplify governance by managing servers, virtual machines, and clusters directly from Azure, regardless of their location.
2. **Scale Faster with Cloud-Native Services:** Build applications using cloud-native technologies, enabling efficiency and flexibility.
3. **Strengthen Security with Cloud Services:** Enhance hybrid infrastructure security with Azure's unique threat intelligence and built-in controls.

### Azure Arc Resources

The Azure Arc portal provides a comprehensive view of resources, including:

- **Machines:** Manage servers and VMs.
- **Kubernetes Clusters:** Govern containerized applications.
- **Host Environments:** Integrate with Azure Stack HCI, VMware vCenters, and SCVMM.
- **Data Services:** Manage SQL Server instances and SQL managed instances across environments.



## Azure Arc

### Adding On-Premises Resources with Azure Arc

Azure Arc allows organizations to seamlessly integrate and manage their on-premises resources, including Windows servers, alongside Azure-native resources. This ensures consistent governance, monitoring, and security for a unified hybrid infrastructure.

### Key Steps to Add On-Premises Windows Servers

The screenshot shows the Microsoft Azure portal interface for adding Azure Arc resources. The top navigation bar includes the Microsoft Azure logo, a search bar, and user information. The main heading is 'Add Azure Arc resources'. Below this, there are two sections: 'Azure Arc resources' and 'Host environments'.

**Azure Arc resources**

With Azure Arc, you can add and manage resources from all your environments, including on-premises, other clouds, and edge devices. Start by choosing a resource type. [Learn more](#)

**Machines**

Manage Windows and Linux physical servers and virtual machines hosted outside of Azure.

[Add/Create](#) [Learn more](#)

**Kubernetes clusters**

Add your existing Kubernetes clusters from on-premises, edge, and multi-cloud services.

[Add/Create](#) [Learn more](#)

**Host environments**

With Azure Arc, you can also create new resources or discover and manage existing ones by extending the Azure control plane to your cloud. Start by connecting host environments.

**VMware vSphere**

Scale, modernize, and manage your current vCenter inventory using Azure native services.

[Add](#) [Learn more](#)

**System Center VMM**

Add existing instances to secure, manage and govern your SCVMM VMs using Azure services.

[Add](#) [Learn more](#)

**Azure Stack HCI**

Enable VM self-servicing on your existing HCI cluster.

[Get started](#) [Learn more](#)

**Add a machine**

Connect and manage an existing server or virtual machine from any of your environments

**Create a machine in a connected host environment**

Create a virtual machine in your connected host environments

[Add](#) [Learn more](#)

**System Center VMM**

Add existing instances to secure, manage and govern your SCVMM VMs using Azure services.

[Add](#) [Learn more](#)

**Azure Stack HCI**

Enable VM self-servicing on your existing HCI cluster.

[Get started](#) [Learn more](#)

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[Home](#) > [Azure Arc](#) > [Add Azure Arc resources](#) >

## Add servers with Azure Arc

Machines - Azure Arc

Azure Arc allows you to use Azure tools to manage on-premises servers and servers from other clouds. We'll start with some prerequisites and deploy the Azure Connected Machine agent. [Learn more](#)

### Add a single server

This option will generate a script to run on your target server. The script will prompt you for your Azure login, so this option is best for adding servers one at a time.

[Generate script](#)
[Learn more](#)

### Add multiple servers

To add multiple servers to Azure, we will generate a script that handles authentication through a service principal. You will see that and other prerequisites next.

[Generate script](#)
[Learn more](#)

### Add Windows Server with installer

Onboard a single Windows Server with your Azure credentials using an installer that guides you through the process step by step.

[Download installer](#)
[Learn more](#)

### Add servers from AWS

Connect your Amazon Web Services (AWS) accounts for scalable and automatic onboarding of EC2 instances by creating an AWS connector.

[Add servers](#)
[Learn more](#)

### Add servers from Update Management

Non-Azure servers managed by the Update Management service can be easily connected to Azure via Azure Arc. Once you have selected the servers, the deployment will happen automatically.

[Add servers](#)
[Learn more](#)

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## Add a server with Azure Arc

[Basics](#)
[Tags](#)
[Download and run script](#)

Complete the fields below to connect servers on-premise and in other clouds to be managed and governed in Azure. [Learn more](#)

### Project details

Select the subscription and resource group where you want the server to be managed within Azure.

Subscription \* ⓘ

MSDN079

Resource group \* ⓘ

(New) AzureArc\_LAB

[Create new](#)

ⓘ You must select a region before creating a new resource group.

### Server details

Select details for the servers that you want to add. An agent package will be generated for the selected server type.

Region \* ⓘ

(US) East US 2

Operating system \* ⓘ

Windows

Windows

Linux

SQL Server

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## Add a server with Azure Arc

SQL Server

Connect SQL Server ⓘ

☒

ⓘ

Automatically connect any SQL Server instances to Azure Arc. [Learn more](#) ⓘ

Connectivity method

Choose how the connected machine agent running in the server should connect to the Internet. This setting only applies to the Arc agent. Proxy settings for extensions are configured separately.

Connectivity method \*

☒ Public endpoint

☐ Proxy server

☐ Private endpoint

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## Add a server with Azure Arc

Basics

Tags

Download and run script

To manage and create custom views of your resources, assign tags. [Learn more about tags](#) ⓘ

Physical location tags

Start with these options for physical location types, change them to suit your needs, or create your own. If you leave the value field blank for these options, the tags will not be created.

| Name                       | Value |               |
|----------------------------|-------|---------------|
| <div>Datacenter</div>      | :     | <div></div> ⓘ |
| <div>City</div>            | :     | <div></div> ⓘ |
| <div>StateOrDistrict</div> | :     | <div></div> ⓘ |
| <div>CountryOrRegion</div> | :     | <div></div> ⓘ |

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Add a server with Azure Arc

Download

## 2. Open a PowerShell console to run the script

Before you run the script, make sure your server meets the following requirements.

- HTTPS access to Azure servicesThe server requires access to port 443 and a set of outbound URLs for the Azure Arc agent to properly function.[View outbound URLs](#)
- Local administrator permission

1

Follow best security practices and avoid using an Azure account with Owner access to onboard servers. Instead, use an account that only has the Azure Connected Machine Onboarding or Azure Connected Machine Resource Administrator role assignment. [Learn more](#)

Run the above script on the server you are onboarding to Azure Arc. The script can also onboard multiple servers. Note that those servers will all be assigned to the same subscription, resource group, and Azure region. You need to run the script as the Local administrator on the server.

This script will do the following:

1. Download the agent from the Microsoft Download Center.
2. Install the agent on the server.
3. Create the Azure Arc-enabled server resource and associate it with the agent.

Once the onboarding script is complete, you will be able to see the Azure Arc resource from the Azure portal page.

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Home > Azure Arc > Add Azure Arc resources > Add servers with Azure Arc

Add a server with Azure Arc

Download

```

3 function Restart-AsAdmin {
4     $psCmd = "powershell"
5     if ($PSVersionTable.PSVersion.Major -ge 6) {
6         $psCmd = "push"
7     }
8
9     try {
10        Write-Host "This script requires administrator permissions to install the Azure Connected Machine Agent.
11        Attempting to restart script with elevated permissions..."
12        $arguments = "-NoExit -Command '& $ScriptPath'"
13        Start-Process $psCmd -Verb RunAs -ArgumentList $arguments
14        exit 0
15    } catch {
16        throw "Failed to elevate permissions. Please run this script as Administrator."
17    }
18
19    try {
20        if (-not ([Security.Principal.WindowsPrincipal] [Security.Principal.WindowsIdentity]::GetCurrent()).IsInRole(
21            [Security.Principal.WindowsBuiltInRole]::Administrator)) {
22            if ([System.Environment]::UserInteractive) {
23                Restart-AsAdmin
24            } else {
25                throw "This script requires administrator permissions to install the Azure Connected Machine Agent.
26                Please run this script as Administrator."
27            }
28        }
29        $env:SUBSCRIPTION_ID = "b15d7..."

```

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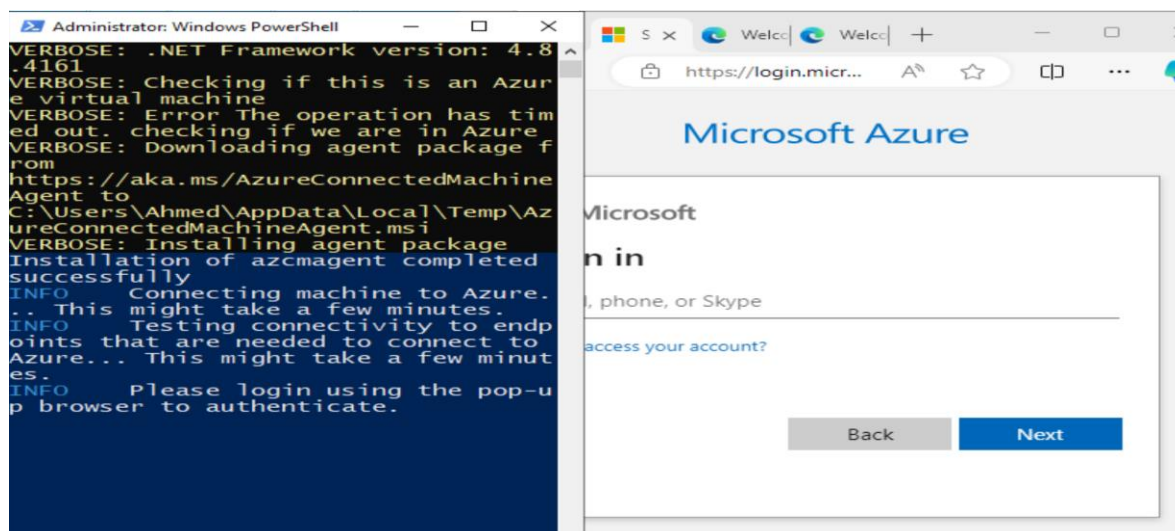
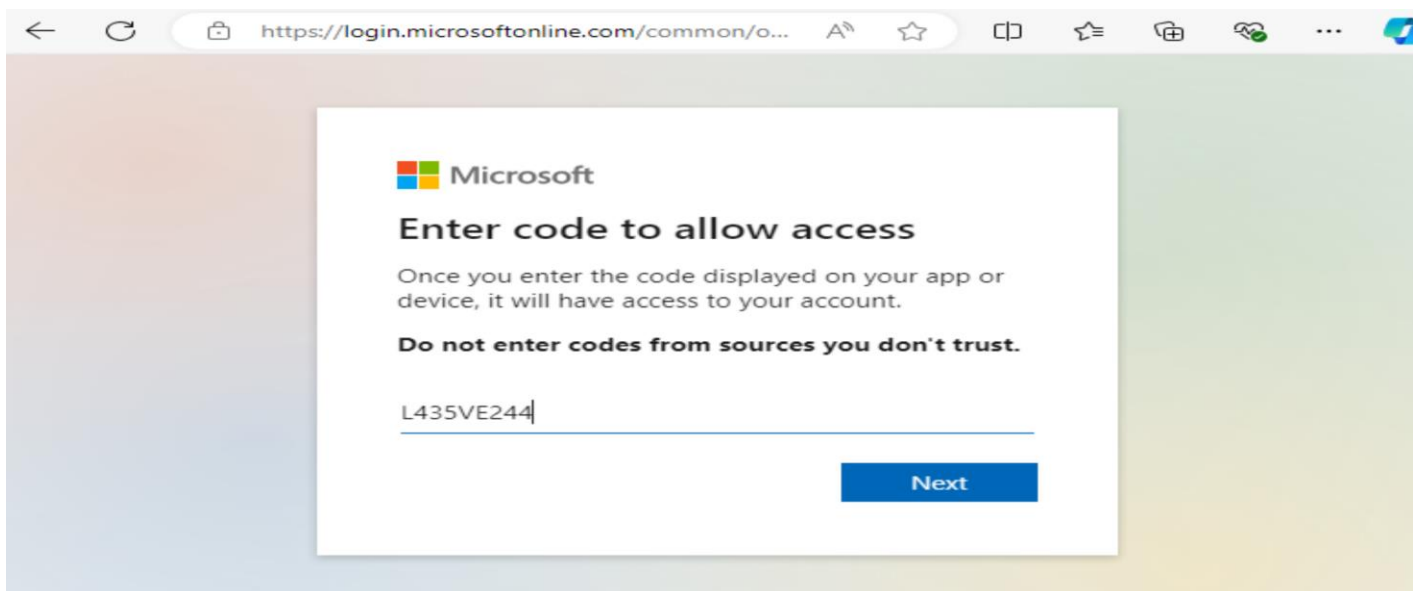
Close

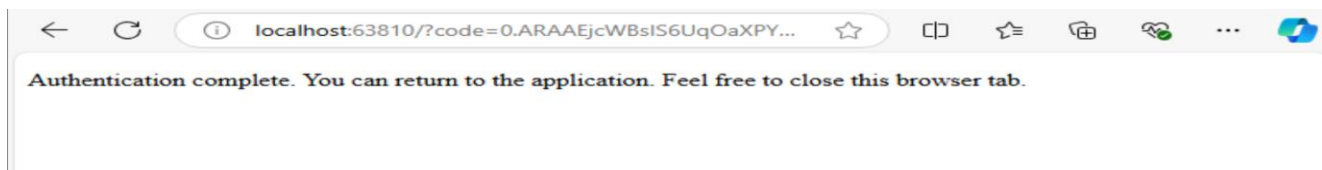
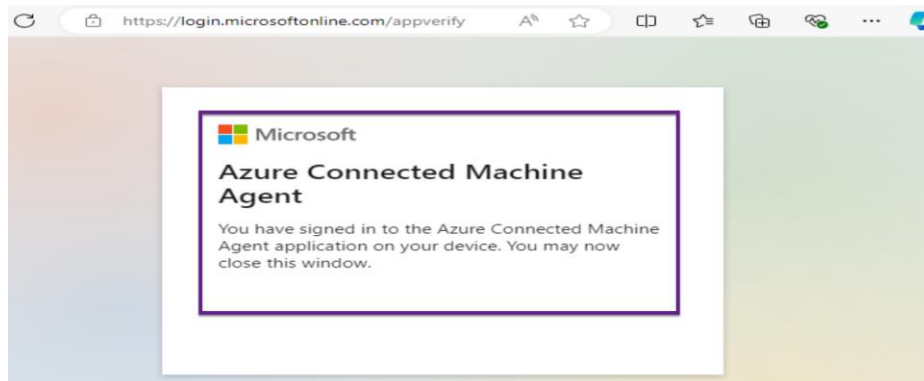
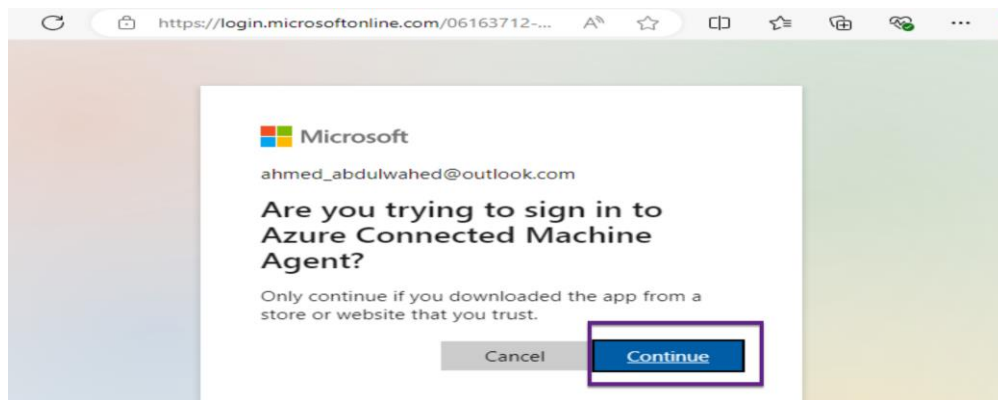
Give feedback

## Azure Arc

Run the downloaded script on on-premises servers you want to add to Azure Arch and follow the below steps

```
Administrator: Windows PowerShell
VERBOSE: Downloading agent package from
https://aka.ms/AzureConnectedMachineAgent to
C:\Users\Ahmed\AppData\Local\Temp\AzureConnectedMachineAgent.msi
VERBOSE: Installing agent package
Installation of azcmagent completed successfully
INFO Connecting machine to Azure... This might take a few minutes.
INFO Testing connectivity to endpoints that are needed to connect to Azure.
.. This might take a few minutes.
INFO Please login using the pop-up browser to authenticate.
To sign in, use a web browser to open the page https://microsoft.com/devicelog
in and enter the code L435VE244 to authenticate.
```



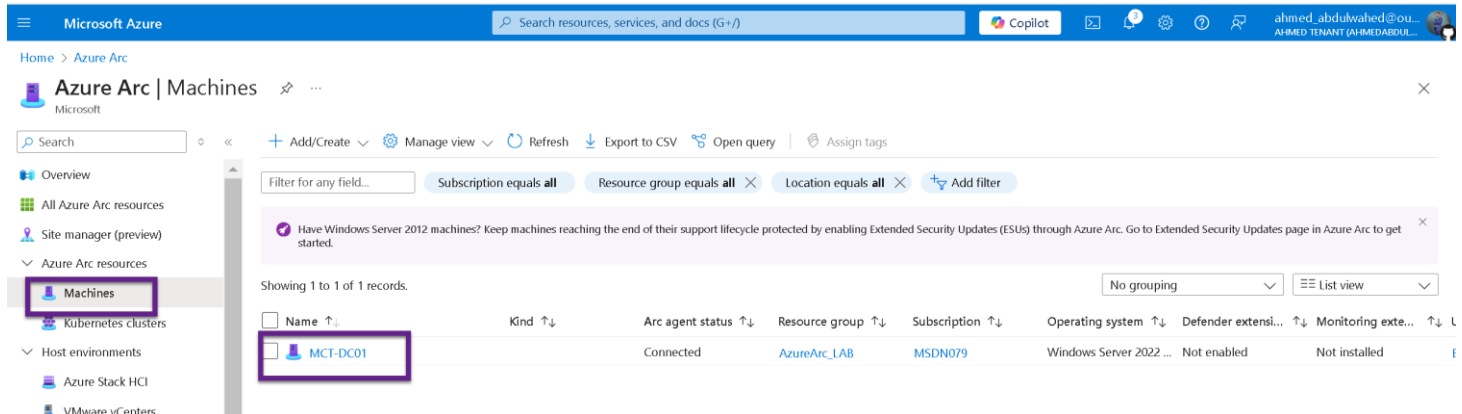


```
Administrator: Windows PowerShell
VERBOSE: Installing Azure Connected Machine Agent
VERBOSE: PowerShell version: 5.1.20348.2760
VERBOSE: Total Physical Memory: 2048 MB
VERBOSE: .NET Framework version: 4.8.4161
VERBOSE: Checking if this is an Azure virtual machine
VERBOSE: Error The operation has timed out. checking if we are in Azure
VERBOSE: Downloading agent package from
https://gbl.his.arc.azure.com/azcmagent/latest/AzureConnectedMachineAgent.m
si to C:\Users\Ahmed\AppData\Local\Temp\AzureConnectedMachineAgent.msi
VERBOSE: Installing agent package
Installation of azcmagent completed successfully
INFO Connecting machine to Azure... This might take a few minutes.
INFO Testing connectivity to endpoints that are needed to connect to Azur
e... This might take a few minutes.
INFO Please login using the pop-up browser to authenticate.
20% [====>]
30% [====>]
INFO Creating resource in Azure... Correlation ID=c0fc9
75b-2116-471f-8cd1-eaecf7651ba2 Resource ID=/subscriptions/b15d766f-8021-486
6-bb33-5aad096ed079/resourceGroups/AzureArc_LAB/providers/Microsoft.HybridCo
mpute/machines/MCT-DC01
60% [====>]
80% [====>]
100% [=====]
INFO Connected machine to Azure
INFO Machine overview page: https://portal.azure.com/#@06163712-12c2-4ae9
-8e69-73d879a0e896/resource/subscriptions/b15d766f-8021-4866-bb33-5aad096ed0
79/resourceGroups/AzureArc_LAB/providers/Microsoft.HybridCompute/machines/MC
T-DC01/overview
PS C:\Windows\system32>
```



## Azure Arc

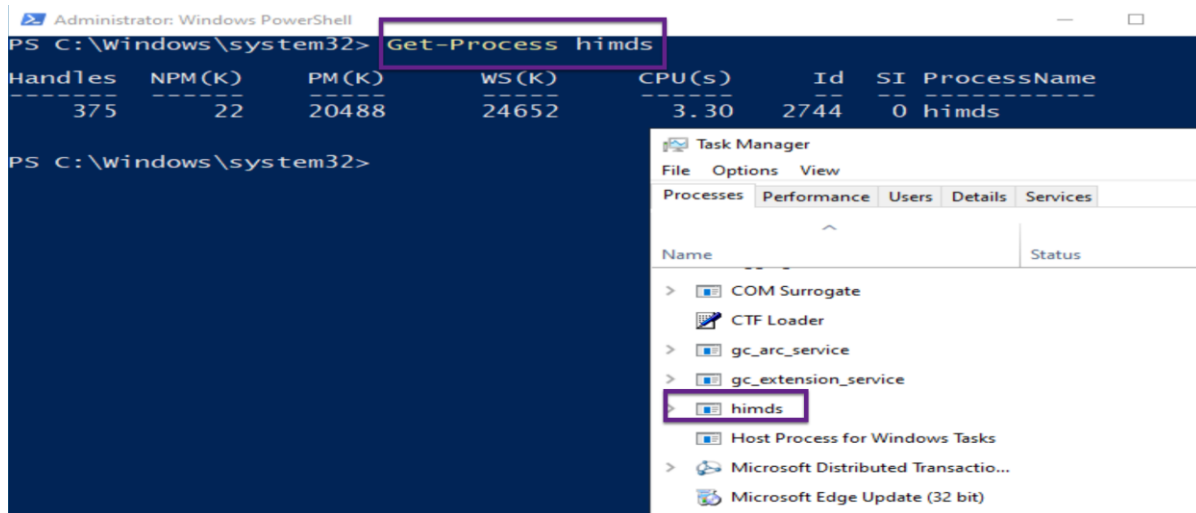
Once on-premises Windows servers are added to Azure Arc, they are visible under the **Machines** section. Azure Arc provides a centralized interface to monitor and manage across your hybrid environment.



## Importance of Monitoring Himds

The **himds** process is critical for Azure Arc operations as it facilitates communication between the Azure portal and the Arc-enabled server. Monitoring its performance ensures:

- Proper functionality of Azure Arc.
- Early detection of resource usage spikes or issues.



### Azure Connected Machine Agent Details

The Azure Connected Machine agent (azcmagent) is a critical component that enables Azure Arc to manage hybrid resources. The azcmagent show command outputs comprehensive details about the agent's configuration and status.

#### Key Details in the Screenshot

##### 1. Resource Identification:

- **Resource Name:** MCT-DC01 (the server's name in Azure Arc).
- **Resource Group Name:** AzureArc\_LAB (the resource group the server belongs to in Azure).
- **Resource Namespace:** Microsoft.HybridCompute (indicating the Azure Arc service).
- **Resource ID:** The unique identifier for the connected machine within Azure.

##### 2. Subscription and Tenant Information:

- **Subscription ID:** b15d766f-... (subscription under which the server is managed).
- **Tenant ID:** 06163712-... (Azure AD tenant ID for authentication).

##### 3. VM Information:

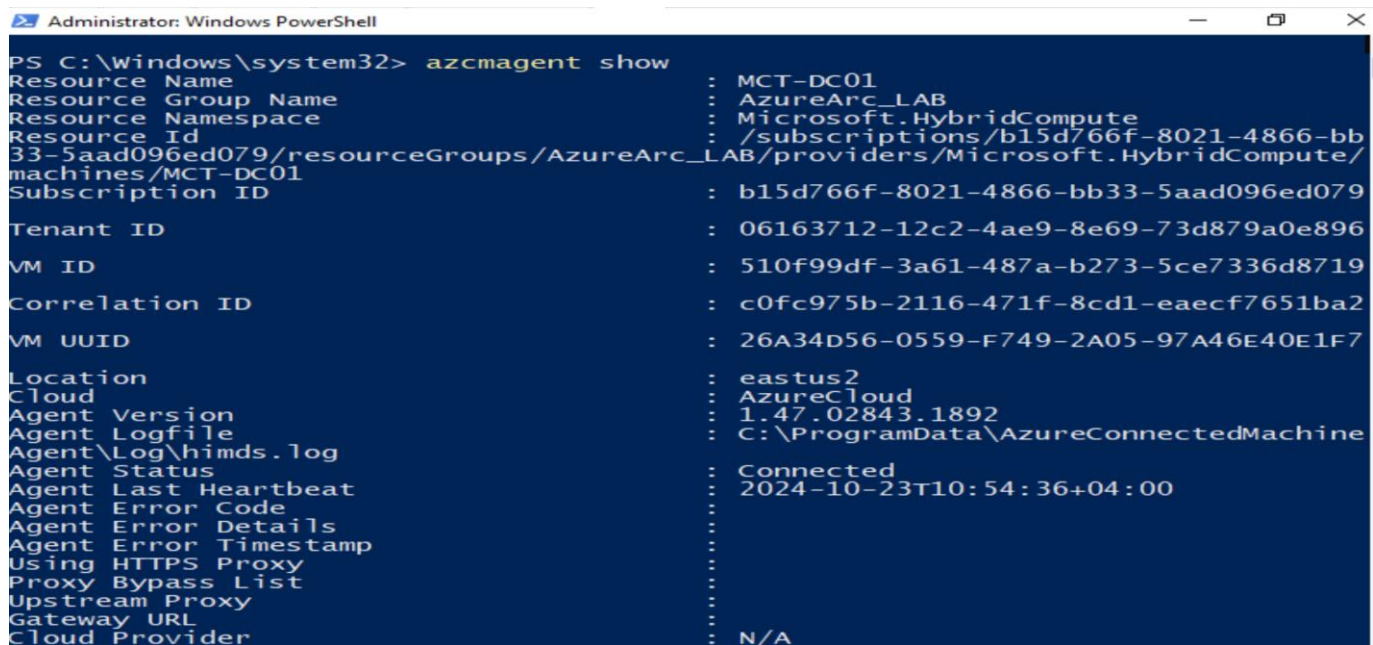
- **VM ID:** Unique identifier for the server.
- **VM UUID:** Universally unique identifier for the server in Azure Arc.

##### 4. Agent Status:

- **Cloud:** Indicates the cloud environment (AzureCloud in this case).
- **Agent Version:** 1.47.02843.1892 (current version of the agent).
- **Agent Logfile:** C:\ProgramData\AzureConnectedMachine\Log\himds.log (path to the log file for troubleshooting).
- **Agent Status:** Connected (indicating successful communication with Azure).
- **Agent Last Heartbeat:** Timestamp of the last communication with Azure, showing it is actively monitored.

##### 5. Cloud Location:

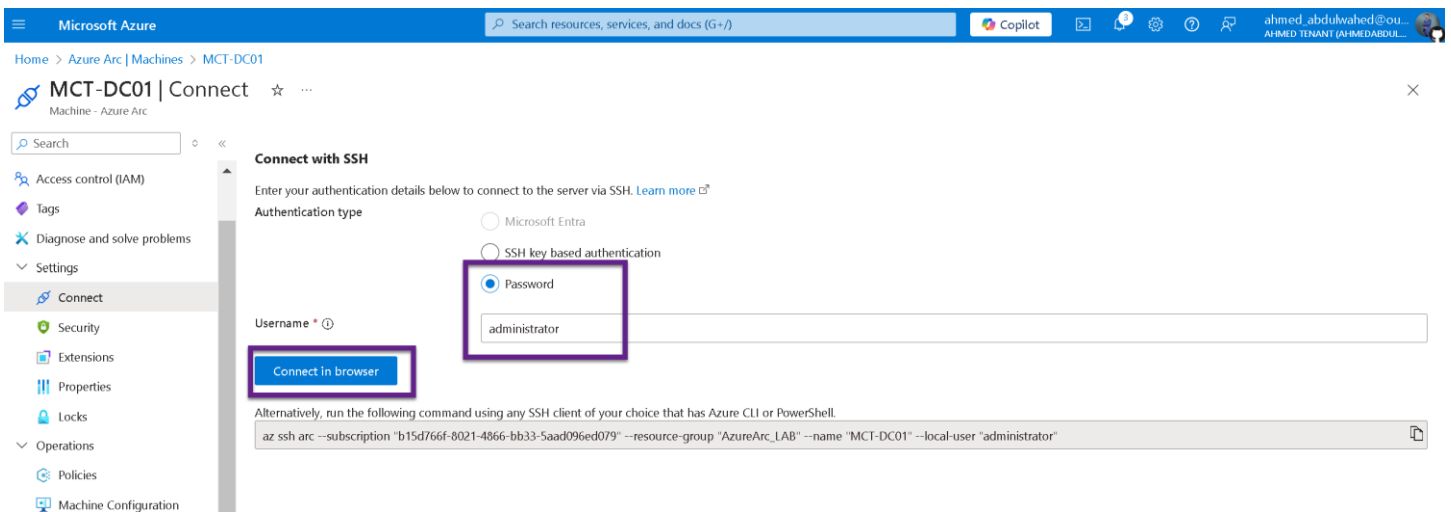
- **Location:** eastus2 (Azure region associated with this machine).



```
Administrator: Windows PowerShell
PS C:\Windows\system32> azcmagent show
Resource Name                : MCT-DC01
Resource Group Name         : AzureArc_LAB
Resource Namespace          : Microsoft.HybridCompute
Resource Id                  : /subscriptions/b15d766f-8021-4866-bb33-5aad096ed079/resourceGroups/AzureArc_LAB/providers/Microsoft.HybridCompute/machines/MCT-DC01
Subscription ID              : b15d766f-8021-4866-bb33-5aad096ed079
Tenant ID                    : 06163712-12c2-4ae9-8e69-73d879a0e896
VM ID                        : 510f99df-3a61-487a-b273-5ce7336d8719
Correlation ID               : c0fc975b-2116-471f-8cd1-eaecf7651ba2
VM UUID                      : 26A34D56-0559-F749-2A05-97A46E40E1F7
Location                     : eastus2
Cloud                        : AzureCloud
Agent Version                : 1.47.02843.1892
Agent Logfile                : C:\ProgramData\AzureConnectedMachine\Log\himds.log
Agent Status                 : Connected
Agent Last Heartbeat         : 2024-10-23T10:54:36+04:00
Agent Error Code              :
Agent Error Details           :
Agent Error Timestamp         :
Using HTTPS Proxy             :
Proxy Bypass List             :
Upstream Proxy                :
Gateway URL                   :
Cloud Provider                : N/A
```

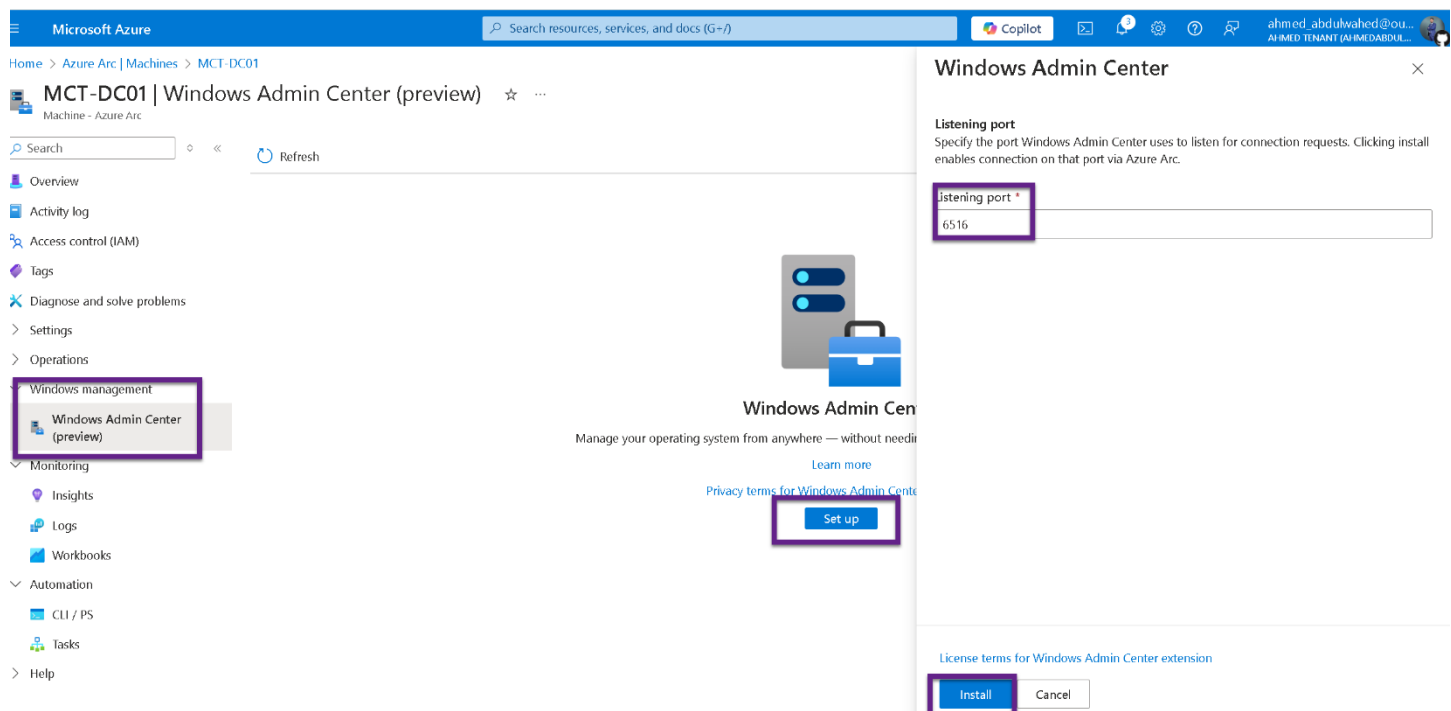
### Secure Connection to Azure Arc-Enabled Servers

Azure Arc allows administrators to securely connect to on-premises or hybrid servers using various authentication methods.



### Setting Up Windows Admin Center via Azure Arc

Windows Admin Center (WAC) provides a centralized management interface for Windows Server environments. Using Azure Arc, WAC can be installed and configured to enable seamless management of hybrid and on-premises servers through the Azure portal.



### Enabling Insights Monitoring for Azure Arc-Enabled Servers

Azure Monitor's **VM Insights** provides detailed performance monitoring and dependency mapping for Azure Arc-enabled machines. This enables proactive tracking of guest performance, resource utilization, and application dependencies.

The screenshot shows the Azure portal interface for an Azure Arc-enabled machine named 'MCT-DC01'. The left sidebar shows the 'Monitoring' section expanded, with 'Insights' selected. The main area displays the 'Monitoring configuration' dialog. The dialog includes a 'Subscription' dropdown set to 'MSDN079' and a 'Data collection rule' dropdown set to '(new) MSVMI-DefaultWorkspace-b15d766f-8021-4866-bb33-5aad096ed079-EUS'. Below these, the configuration table shows:

| Configuration                    | Value   |
|----------------------------------|---|
| Guest performance                | Enabled   |
| Processes and dependencies (Map) | Disabled  |
| Log Analytics workspace          | DefaultWorkspace-b15d766f-8021-4866-bb33-5aad096ed079-EUS |

The 'Enable' button is highlighted with a red box. Below the configuration table, there is a 'Have more questions?' section with links to learn more about Arc resource, VM Insights, pricing, support matrix, FAQ, and update Azure Agent. A 'Configure' button is also highlighted with a red box.

The screenshot shows the Azure portal interface for the same Azure Arc-enabled machine 'MCT-DC01'. The left sidebar shows the 'Monitoring' section expanded, with 'Insights' selected. The main area displays the 'Insights' page. The page has a 'Get started' tab selected, with 'Performance' and 'Map' tabs also visible. The 'Get started' tab contains the following content:

### Monitor the health and performance of virtual machines

VM insights monitors the performance and health of your virtual machines and virtual machine scale sets, including their running processes and dependencies on other resources. It can help deliver predictable performance and availability of vital applications by identifying performance bottlenecks and network issues. [Learn more](#)

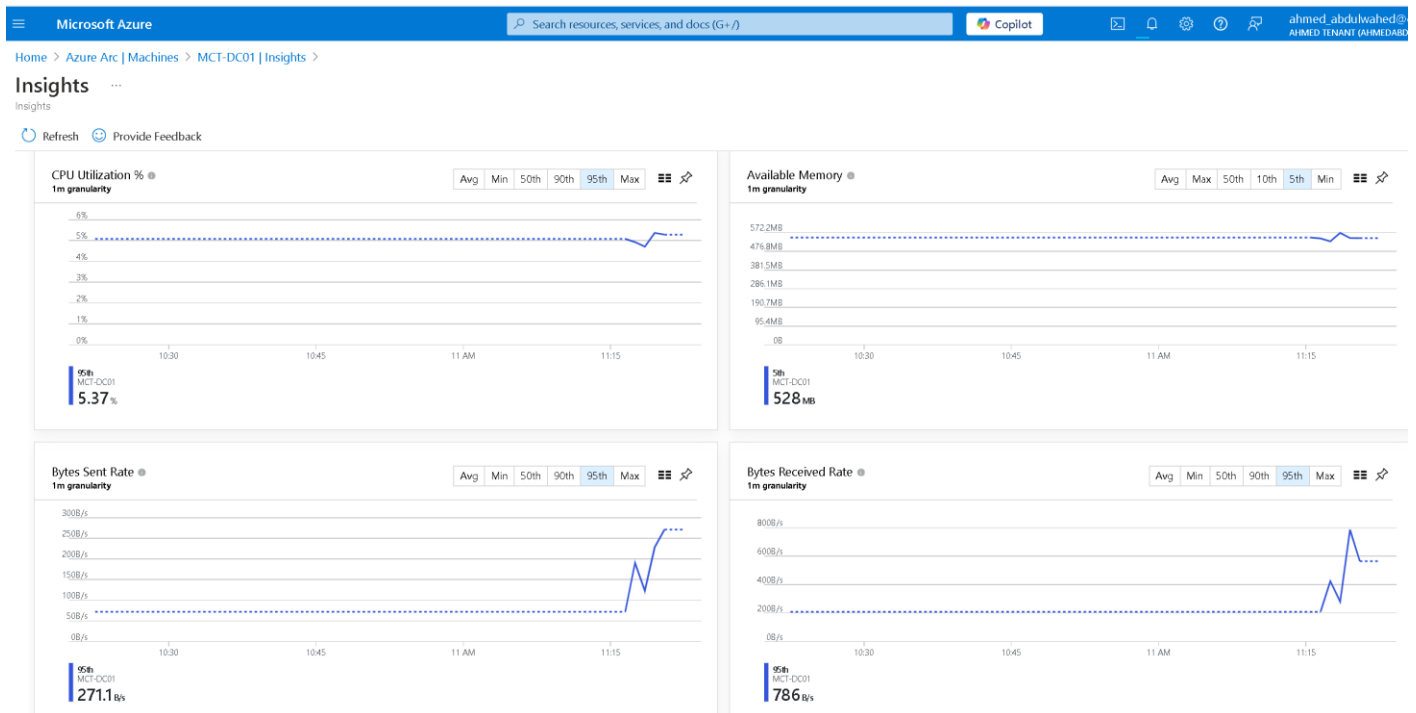
#### Analyze data

Analyze the health and performance for a single machine or multiple machines and drill into logs for troubleshooting. [Learn more](#)

**Analyze data**

#### Create alerts

Alerts in Azure Monitor proactively notify you of interesting data and patterns in your monitoring data and potentially take automated actions based on triggers. [Learn more](#)



## Managing Updates for Azure Arc-Enabled Servers

Azure Arc provides centralized update management for hybrid machines, enabling administrators to schedule and apply updates across environments from the Azure portal.

The image shows the Azure Arc Updates management interface for machine MCT-DC01. The left sidebar contains a navigation menu with the following items:

- Overview
- Activity log
- Access control (IAM)
- Tags
- Diagnose and solve problems
- Settings
- Operations
  - Policies
  - Machine Configuration
  - Run command (preview)
  - SQL Server Configuration
  - Updates** (highlighted)
  - Inventory
  - Change tracking
- Windows management
  - Windows Admin Center (preview)
- Monitoring

The main content area displays the 'Updates' page for machine MCT-DC01. It includes a search bar, a 'Refresh' button, and a 'Check for updates' button. A message states: 'There is no assessment done in last 7 days. Check for updates to get the latest data.'

The 'Recommended updates' section shows the following information:

- Operating system (guest) updates:**
  - Periodic assessment: ☒ No (Enable now)
  - Patch orchestration: N/A
- Summary:**
  - Total updates: -
  - Critical updates: -
  - Security updates: -
  - Other updates: -

Below the summary, there are filters for 'Classifications: All selected', 'Severity (MSRC): All selected', 'Reboot required: All selected', and 'Maximum publish date'. A table header is visible with columns: Update name, Classifications, Severity (MSRC), KB ID, Reboot required, and Published date. The table currently shows 'No assessment data found for the machine. Please check for updates.'

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Home > MCT-DC01 > Updates > Updates >

Create a maintenance configuration ...

Basics

Resources

Dynamic scopes

Updates

Events

Tags

Review + Create

Select a subscription to manage deployed resources and costs. Use resource groups like folders to organize and manage all your resources.

Subscription \*

MSDN079

Resource group \*

AzureArc\_LAB

Create new

Instance details

Configuration name \*

DC01\_Updates

Region \*

(US) East US

Maintenance scope \*

Guest (Azure VM, Arc-enabled VMs/servers)

Reboot setting \*

Reboot if required

Schedule \*

Add a schedule

Schedule cannot be empty for Guest patching.

Review + create

< Previous

Next: Resources >

Add/Modify schedule

Start on \*

MM/DD/YYYY

h:mm AM/PM

(UTC+04:00) Abu Dhabi, Muscat

Maintenance window \*

3

55

Repeats

1

Day

Add end date

Schedule summary

Starts on: -

Effective from: -

Upcoming maintenance: -

Maintenance window: 3 hours 55 minutes

Repeats: Does not repeat

Ends on: -

To execute a pre-maintenance event for any maintenance configuration, allocate at least 40 minutes prior to the start time of the maintenance configuration. [Learn more](#)

Save

Cancel

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Home > MCT-DC01 > Updates > Updates >

Create a maintenance configuration ...

Basics

Resources

Dynamic scopes

Updates

Events

Tags

Review + Create

Assign resources to this maintenance configuration now, or assign them after the maintenance configuration deploys. You're limited to five resource assignments now, but you can add as many as you like after deployment.

+ Add resources

- Remove resources

|                                     | Name     | Type               | Resource group | Location  | Subscription |
|-------------------------------------|----------|--------------------|----------------|-----------|--------------|
| <input checked="" type="checkbox"/> | MCT-DC01 | Server - Azure Arc | AzureArc_LAB   | East US 2 |              |

Review + create

< Previous

Next: DynamicScopes >

Include update classification

Select the appropriate classifications below for your resources. All updates within the selected classifications will be installed. [Learn more](#)

Linux machines

Select all

☒ Security and critical updates

☐ Other updates

Windows machines

Select all

☒ Critical updates

☒ Security updates

☐ Update rollups

☐ Feature packs

☐ Service packs

☐ Definition updates

☐ Tools

☐ Updates

Add

Cancel

Give feedback

## Change Tracking and Inventory in Azure Arc

The **Change Tracking and Inventory** feature in Azure Arc provides a centralized way to monitor and track changes made to servers, ensuring compliance and improving operational efficiency.

Microsoft Azure

Home > MCT-DC01

MCT-DC01 | Change Tracking and Inventory

Machine - Azure Arc

Search

Security

Extensions

Properties

Locks

Operations

Policies

Machine Configuration

Run command (preview)

SQL Server Configuration

Updates

Inventory

Change tracking

Windows management

Windows Admin Center (preview)

Monitoring

Insights

Logs

Workbooks

Refresh

Change Tracking and Inventory (CT&I) with MMA/OMS has retired on 31st August 2024. New VM onboarding is no longer supported. For retirement details, refer [here](#).

Stay up-to-date with all changes

Enable change tracking and inventory feature with AMA

Azure Monitoring agent (AMA) is the default data collection agent for Change Tracking & Inventory.

Log analytics workspace ⓘ

DefaultWorkspace-b15d766f-8021-4866-bb33-5aad09... [Change](#)

Enable

Ready to enable

Documentation

View documentation on change tracking and inventory

[illegible]

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Home > Azure Arc | Machines > Add servers with Azure Arc >

Add a server with Azure Arc

```
1 \correlationId\"$correlationId\", \"authType\"$authType\", \"operation\"$operation\",  
2 \messageType\"$downloadScriptFailed\", \"message\"$output\"} \"https://publ.his.arc.azure.com/log\" &  
3 > /dev/null || true; fi;  
4 echo \"$output\";  
5  
6 # Install the hybrid agent  
7 bash /tmp/install_linux_azcmagent.sh;  
8  
9 # Run connect command  
10 sudo azcmagent connect --resource-group \"$resourceGroup\" --tenant-id \"$tenantId\" --location \"$location\"  
11 --subscription-id \"$subscriptionId\" --cloud \"$cloud\" --tags \"ArcSQLServerExtensionDeployment=Disabled\"  
12 --correlation-id \"$correlationId\";  
13  
14  
15  
16  
17  
18  
19  
20  
21
```

Download

## 2. Open a Bash console to run the script

Before you run the script, make sure your server meets the following requirements.

- HTTPS access to Azure servicesThe server requires access to port 443 and a set of outbound URLs for the Azure Arc agent to properly function.[View outbound URLs](#)
- Local administrator permission

Follow best security practices and avoid using an Azure account with Owner access to onboard servers. Instead, use an account that only has the Azure Connected Machine Onboarding or Azure Connected Machine Resource Administrator role assignment. [Learn more](#)

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Give feedback



## Run the downloaded script on On-Premises Linux Servers

```

Total download size: 73 M
Installed size: 205 M
Downloading Packages:
azcmagent-1.47.02843-49.x86_64.rpm                3.4 MB/s | 73 MB    00:21
-----
Total                                              3.4 MB/s | 73 MB    00:21
warning: /var/cache/dnf/packages-microsoft-com-prod-37360e73ce94b4be/packages/azcmagent-1.47.02843-49.x86_64.rpm: Header V4 RSA/SHA256 Signature, key ID be1229cf: NOKEY
packages-microsoft-com-prod                      3.1 kB/s | 983 B    00:00
Importing GPG key 0xBE1229CF:
  Userid      : "Microsoft (Release signing) <gpgsecurity@microsoft.com>"
  Fingerprint: BC52 8686 B50D 79E3 39D3 721C EB3E 94AD BE12 29CF
  From        : https://packages.microsoft.com/keys/microsoft.asc
Key imported successfully
Running transaction check
Transaction check succeeded.
Running transaction test
Transaction test succeeded.

```

```

[root@rh8 ~]# ll
total 12
-rw-----. 1 root root 2794 Sep 29 22:18 anaconda-ks.cfg
-rw-rw-rw-. 1 root root   0 Oct 16 20:14 f1
-rw-r--r--. 1 root root 1193 Oct 23 00:37 OnboardingScript.sh
-rw-----. 1 root root 2119 Sep 29 22:18 original-ks.cfg
[root@rh8 ~]# bash OnboardingScript.sh
--2024-10-23 00:38:09-- https://gbl.his.arc.azure.com/azcmagent-linux
Resolving gbl.his.arc.azure.com (gbl.his.arc.azure.com)... 172.202.64.10, 172.202.65.10, 2603:1030:13:20::10, ...
Connecting to gbl.his.arc.azure.com (gbl.his.arc.azure.com)|172.202.64.10|:443... connected.
HTTP request sent, awaiting response... 200 OK
Length: unspecified [text/plain]
Saving to: '/tmp/install_linux_azcmagent.sh'

 0K ..... 250K=0.1s

2024-10-23 00:38:10 (250 KB/s) - '/tmp/install_linux_azcmagent.sh' saved [32155]
Using 'curl' for downloads
Total physical memory: 1833356 kB
Platform type: x86_64:Linux
Retrieving distro info from /etc/os-release...
Configuring for Redhat 8...
Using 'dnf' instead of 'yum'
Updating Subscription Management repositories.

```

```

STARTING EXT

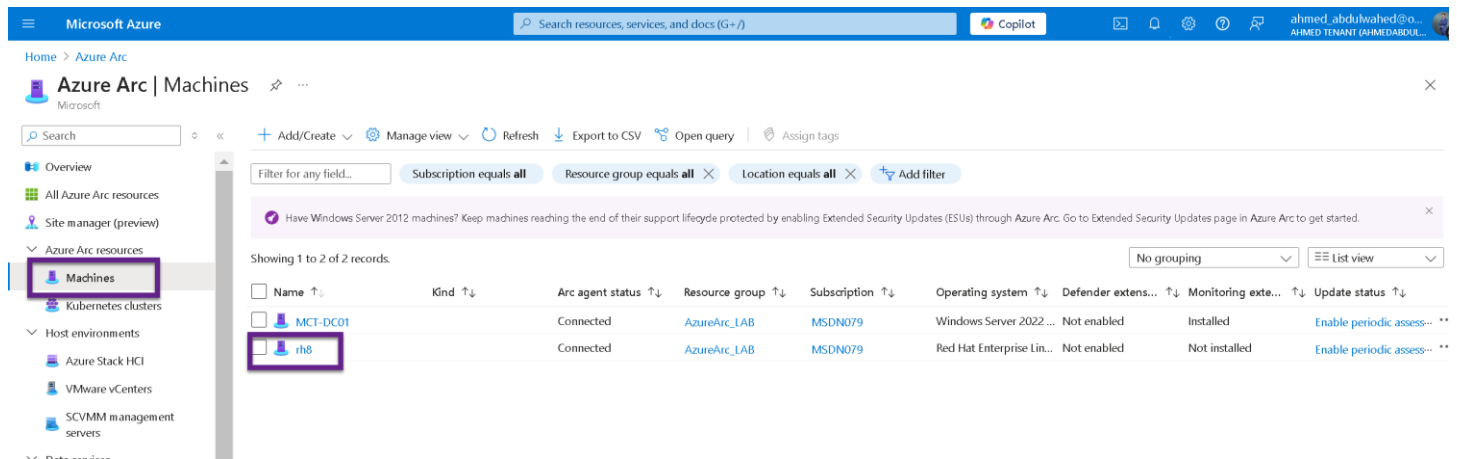
  Verifying      : azcmagent-1.47.02843-49.x86_64                                1/1
Installed products updated.

Installed:
  azcmagent-1.47.02843-49.x86_64

Complete!
Latest version of azcmagent is installed.
INFO    Connecting machine to Azure... This might take a few minutes.
INFO    Testing connectivity to endpoints that are needed to connect to Azure... This might take a few minutes.
To sign in, use a web browser to open the page https://microsoft.com/devicelogin and enter the code DAVQSP9Y8 to authenticate.
 20% [==> ]
 30% [===> ]
  INFO    Creating resource in Azure... Correlation ID=91acb30d-503a-4b5b-b03c-2aeb03b56b
a8 Resource ID=/subscriptions/b15d766f-8021-4866-bb33-5aad096ed079/resourceGroups/AzureArc_LAB/providers/Microsoft.HybridCompute/machines/rh8
 60% [=====> ]
 80% [=====> ]
100% [=====]
  INFO    Connected machine to Azure
INFO    Machine overview page: https://portal.azure.com/#@06163712-12c2-4ae9-8e69-73d879a0e896/resource/subscriptions/b15d766f-8021-4866-bb33-5aad096ed079/resourceGroups/AzureArc_LAB/providers/Microsoft.HybridCompute/machines/rh8/overview

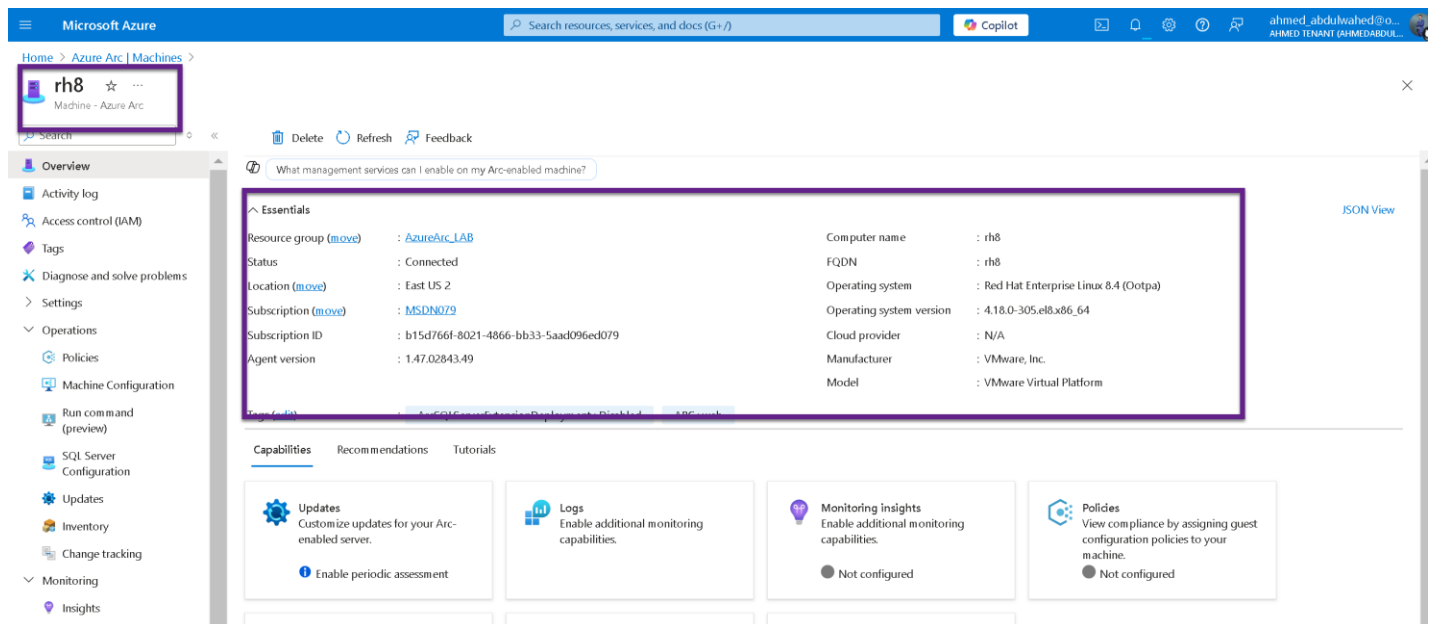
```

## Red Hat Enterprise Linux (rh8) Successfully Connected to Azure Arc



The screenshot shows the Microsoft Azure portal interface. The left sidebar displays the navigation menu with 'Machines' highlighted under 'Azure Arc resources'. The main content area shows a table of machines. The 'rh8' machine is selected and highlighted with a red box.

| Name     | Kind | Arc agent status | Resource group | Subscription | Operating system          | Defender extens... | Monitoring exte... | Update status             |
|----------|------|------------------|----------------|--------------|---------------------------|--------------------|--------------------|---------------------------|
| MCT-DC01 |      | Connected        | AzureArc_LAB   | MSDN079      | Windows Server 2022 ...   | Not enabled        | Installed          | Enable periodic assess... |
| rh8      |      | Connected        | AzureArc_LAB   | MSDN079      | Red Hat Enterprise Lin... | Not enabled        | Not installed      | Enable periodic assess... |



The screenshot shows the details page for the 'rh8' machine. The 'Essentials' section is highlighted with a red box, displaying various machine details.

| Property                 | Value                                |
|--------------------------|--------------------------------------|
| Resource group           | AzureArc_LAB                         |
| Status                   | Connected                            |
| Location                 | East US 2                            |
| Subscription             | MSDN079                              |
| Subscription ID          | b15d766f-8021-4866-bb33-5aad096ed079 |
| Agent version            | 1.47.02843.49                        |
| Computer name            | rh8                                  |
| FQDN                     | rh8                                  |
| Operating system         | Red Hat Enterprise Linux 8.4 (Ootpa) |
| Operating system version | 4.18.0-305.el8.x86_64                |
| Cloud provider           | N/A                                  |
| Manufacturer             | VMware, Inc.                         |
| Model                    | VMware Virtual Platform              |

Below the Essentials section, there are tabs for 'Capabilities', 'Recommendations', and 'Tutorials'. The 'Capabilities' tab is active, showing various settings and recommendations.

## Performance Insights for Red Hat in Azure Arc

