

Intel® EMA Cloud Start Tool for Microsoft Azure Quick-Start Guide



Intel® Endpoint Management Assistant(Intel® EMA)
Cloud-Start Tool for Establishing Intel® EMA in Microsoft
Azure Cloud

Quick Start Guide

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Intel® EMA Cloud Start Tool for Microsoft Azure Quick-Start Guide

Description

The links below will create a Virtual Machine in Microsoft* Azure for the evaluation of Intel® EMA. Each link establishes an appropriately sized, stand-alone, Microsoft Windows® server with a default set of background services and network configurations to allow your endpoints to communicate with your Intel EMA console using Intel Client Initiated Remote Access (CIRA) protocol. Once the server is established, Intel® EMA will be installed with a base configuration automatically. Please allow ~30 minutes for the deployment to complete.

Getting started

From the Intel Download center:

<https://www.intel.com/content/www/us/en/download/19738>

Select the link that best fits your needs

Deploy Intel® EMA for a Single-Server Small-Scale Evaluation¹ **(Recommended for up to 500 endpoints)**

[Click here](#) (This is an external link to Microsoft Azure)

Uses Azure template “Standard_D2s_v3” [2CPU 8GB RAM] with Windows 2019 and SQLExpress: Estimated Microsoft Azure cost ~\$80/month³

Deploy Intel® EMA for a Single-Server Medium-Scale Evaluation¹ **(Recommended for up to 5000 endpoints)**

[Click here](#) (This is an external link to Microsoft Azure)

Uses Azure template “Standard_D4s_v3” [4CPU 16GB RAM] with Windows 2019 and SQLExpress: Estimated Microsoft Azure cost ~\$170/month³

Deploy Intel® EMA for Large-Scale Evaluation² **(Advanced template that supports scalable deployments)**

[Click here](#) (This is an external link to Microsoft Azure)

Choose between “Standard_D2s_v3” [2CPU 8GB RAM] and “Standard_D4s_v3” [4CPU 16GB RAM] with Windows 2019 and Azure SQL Server: Estimated Microsoft Azure cost ~\$95 - ~\$200/month (varies based on selected options)³

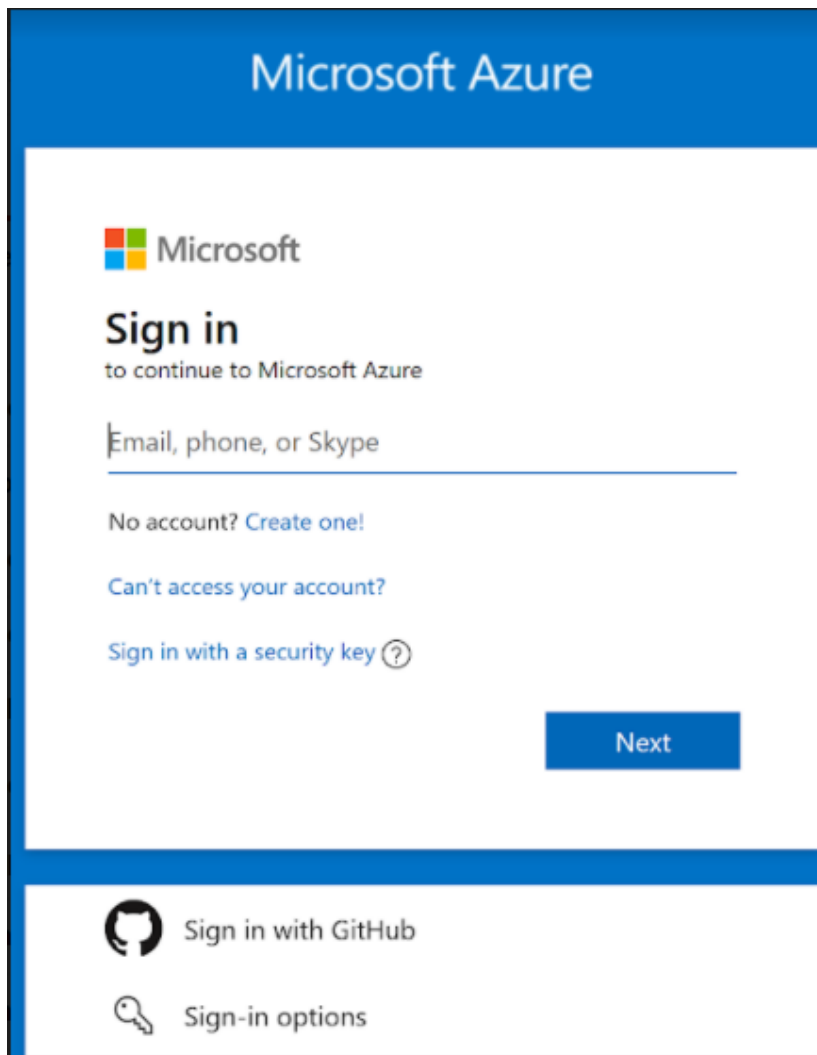
^{1,2}Recommended for evaluation environments due to the use of Microsoft SQLExpress(1), or due to the use of Azure SQL(2), which as of the time this release, had not been fully validated for use with Intel EMA. Please see Microsoft documentation for details of SQLExpress limitations. Please see the Intel EMA User Guide, linked in the ‘Additional Resources’ section of this document, for more information on fully validated database solutions.

³Estimated costs are based on results from the Azure pricing calculator, linked in the ‘Additional Resources’ section of this document. Your costs may vary.

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Microsoft Azure

After you make an initial selection, you will be taken to Microsoft Azure where you may be prompted to login or sign-up.



The screenshot shows the Microsoft Azure sign-in interface. At the top, the text "Microsoft Azure" is displayed in white on a blue background. Below this, the Microsoft logo is followed by the text "Microsoft". The main heading is "Sign in" in a large, bold font, with the subtitle "to continue to Microsoft Azure" underneath. A text input field is present with the placeholder text "Email, phone, or Skype". Below the input field, there are three links: "No account? Create one!", "Can't access your account?", and "Sign in with a security key" (with a question mark icon). A blue "Next" button is located at the bottom right of the sign-in section. At the bottom of the page, there are two options: "Sign in with GitHub" (with the GitHub logo) and "Sign-in options" (with a key icon).

NOTE: If you need to create an account and are not automatically taken to the virtual machine setup afterwards, you may need to start the process again once logged in to Microsoft Azure.

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Intel® EMA instance single-server deployment

Once logged in you will be taken to the server creation template. Follow the tool-tips and other on-page guidance to fill in the required fields.

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

Home >

Custom deployment

Deploy from a custom template

Customized template 6 resources

Edit template Edit parameters Visualize

Create a VM running Intel Endpoint Management Assistant (Intel® EMA)

[Learn more about Intel® EMA](#)

This simplified template will deploy a virtual machine on a new virtual network, install pre-requisite software, install Intel EMA and perform minimal configuration. It will acquire a free certificate from Let's Encrypt based on the FQDN assigned during the virtual machine creation. Please complete all of the fields below that are marked as required. By using this tool, you agree to all third party end user license agreements.

Project details

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

Subscription *

Resource group *
[Create new](#)

Instance details

Region *

Virtual Machine name *

Username *

VM Password *

Confirm password *

Additional VM parameters

Size of Virtual Machine *

Add to an existing server group or create a new group

Enter credentials for your virtual machine

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Specify the Intel EMA configuration parameters. The password specified below will be used for the Global and Tenant admin accounts as well as the endpoint group and Auto-Setup. These can be changed after the deployment has completed vis your Intel EMA administration web portal.

Intel EMA configuration parameters

Specify the Intel EMA configuration parameters below.

The password specified below will be used for the Global and Tenant admin accounts as well as the Endpoint group and Auto-Setup. These can be changed after the deployment has completed via your Intel EMA administration web portal.

Global Administrator username * ⓘ	<input type="text" value="emaglobaladmin@yourdomain.com"/>	✓
Tenant Administrator username * ⓘ	<input type="text" value="ematenantadmin@yourdomain.com"/>	✓
Intel EMA password * ⓘ	<input type="password" value="....."/>	✓
Confirm Intel EMA password * ⓘ	<input type="password" value="....."/>	✓

Select the checkbox below if you'd like to customize some of the deployment parameters otherwise, default values will be used.

Customize Intel EMA parameters	<input checked="" type="checkbox"/>
Tenant Name * ⓘ	<input type="text" value="Default Tenant"/>
Endpoint Group Name * ⓘ	<input type="text" value="Default Endpoint Group"/>
AMT Profile Name * ⓘ	<input type="text" value="Default AMT Profile"/>

Global Admin
Username: Email for Intel® EMA administrator

Tenant Admin
Username: Email for Intel® EMA tenant administrator

Choose to customize Intel® EMA parameters or keep default values

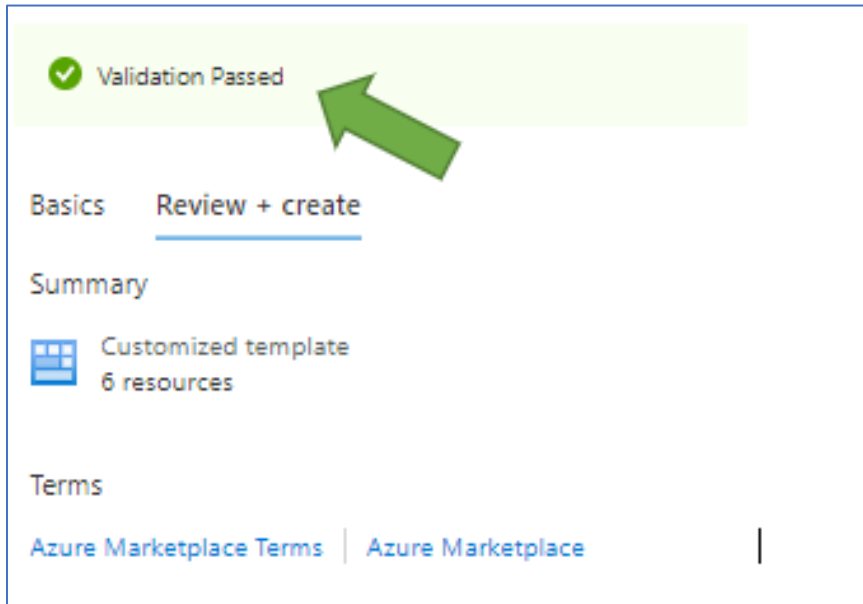
Review + create < Previous Next : Review + create >

Once you complete the form, click **Review + create**:

Review + create < Previous Next : Review + create >

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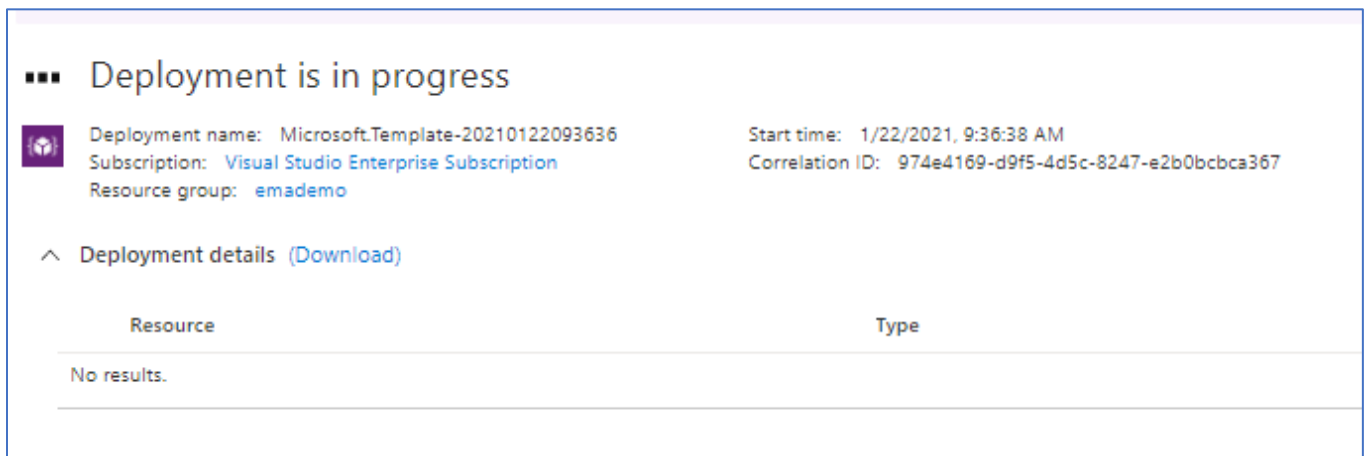
On the review screen you should see a validation message.



Create the server

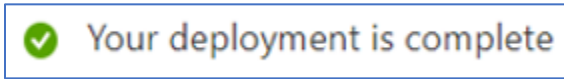


Creation will take approximately 15 to 25 minutes during which time you will see the following screen:

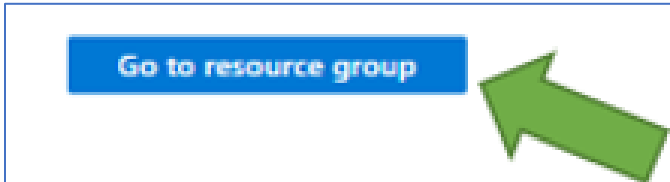


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Once creation is complete, the following message will appear.



Click on **Go to resource group**.



Review the services created, then click on your virtual machine for additional details.

<input type="checkbox"/> Name ↑↓	Type ↑↓	Location ↑↓
<input type="checkbox"/> EMATEST-JTS	Virtual machine	West US 2
<input type="checkbox"/> ematest-jts	SQL virtual machine	West US 2
<input type="checkbox"/> EMATEST-JTS-ip	Public IP address	West US 2
<input type="checkbox"/> EMATEST-JTS-nsg	Network security group	West US 2
<input type="checkbox"/> ematest-jts822	Network interface	West US 2
<input type="checkbox"/> EMATEST-JTS_OsDisk_1_781b1cb742a04b53...	Disk	West US 2

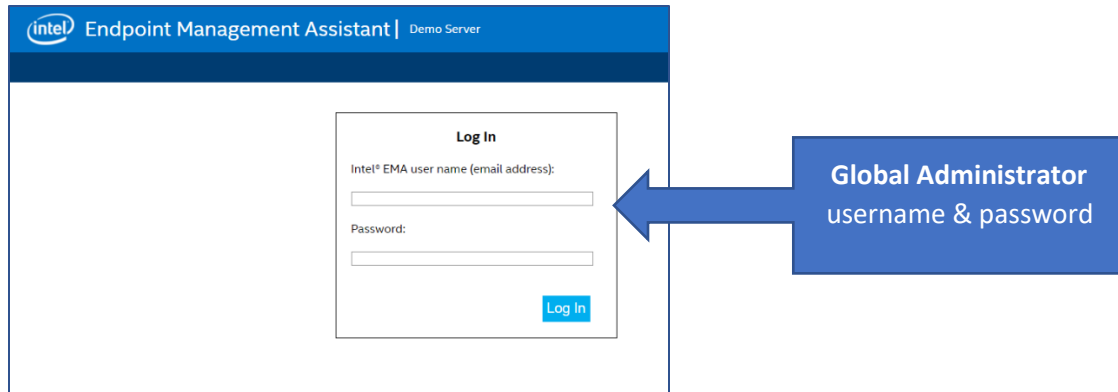
The DNS name will be the URL used to access your Intel® EMA console via your browser.

Resource group (change) JTS	Operating system Windows (Windows Server 2016 Datacenter)
Status Running	Size Standard B2ms (2 vcpus, 8 GiB memory)
Location West US 2	Public IP address 13.66.161.117
Subscription (change) Visual Studio Enterprise	Virtual network/subnet JTS-vnet/default
Subscription ID 7e4a7ea8-8c31-4d5c-9b5e-41172ef24c54	DNS name ematest-jts.westus2.cloudapp.azure.com

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Login to your Intel® EMA Console

Paste the server URL into your browser and you will be prompted by a login screen, shown below.



**NOTE: At this point your console is accessible via the web, and an SSL certificate was obtained from the "Let's Encrypt" public certificate authority and installed automatically for you. Communication with your Intel EMA console is secured with a publicly trusted, RSA 2048bit, SHA256 certificate.*

Configure your Intel® EMA instance

Your Intel EMA server is complete and Intel EMA can now be accessed and managed via the web. Please refer to the Intel® EMA user guide for additional setup and maintenance tasks and general usage instructions before configuring endpoints.

<https://www.intel.com/content/dam/support/us/en/documents/software/manageability-products/intel-ema-admin-and-usage-guide.pdf>

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Intel® EMA instance advanced deployment

Custom deployment ...

Deploy from a custom template

[Learn more about Intel® EMA.](#)

This template will create a virtual machine, install the first server in an Intel EMA distributed server architecture and perform minimal configuration. It will acquire a free certificate from Let's Encrypt based on the FQDN assigned during the virtual machine creation. Please complete all of the fields below that are marked as required. By using this tool, you agree to all third party end user license agreements.

Project details

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

Subscription * ⓘ	<input type="text" value="Visual Studio Enterprise Subscription (975c9008-3be3-4ac2-8d73-84..."/>
Resource group * ⓘ	<input type="text" value="emademo"/> Create new

Add to an existing server group or create a new group

Instance details

Region ⓘ	<input type="text" value="West US 2"/>
Virtual Machine name * ⓘ	<input type="text" value="emavm"/> ✓
Username * ⓘ	<input type="text" value="vmuser"/> ✓
VM Password * ⓘ	<input type="password" value="*****"/> ✓
Confirm password * ⓘ	<input type="password"/>
Size of Virtual Machine * ⓘ	<input type="text" value="Standard_D2s_v3"/>
RDP Access (leave default if unsure) * ⓘ	<input type="text" value="*"/>
Virtual network * ⓘ	<input type="text" value="(new) EMaVNET"/> Create new
Subnet *	<input type="text" value="(new) Subnet (10.1.0.0/24)"/>

Enter credentials for your virtual machine

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Active Directory domain join parameters

Select the box below and complete each of the fields to join the newly created virtual machine to an existing Active Directory infrastructure and use Active Directory authentication for Intel EMA.

The virtual network and subnet selected above in the "Configure virtual networks" section must be able to access your Active Directory infrastructure. Specify the username in UPN format, the Active Directory domain to join and the DNS servers that can resolve the domain.

Join an Active Directory domain
(leave unchecked if not joining AD)

Select the box for Active Directory domain

Intel EMA configuration parameters

If using Active Directory, the user accounts must exist before specifying below. Accepting the defaults will re-use the Tenant Admin password for the Endpoint Group and Auto-Setup passwords. Usernames must be specified in email address/UPN format. For a description of each of the parameters, review section 5 of the quick start guide.

[Intel EMA Quick Start Guide](#)

Global Admin * ⓘ	<input type="text" value="globaladmin@vpro.com"/>	✓
Global admin password * ⓘ	<input type="password" value="....."/>	✓
Confirm Global admin password * ⓘ	<input type="password"/>	
Tenant Admin * ⓘ	<input type="text" value="tenantadmin@vpro.com"/>	✓
Tenant admin password * ⓘ	<input type="password" value="....."/>	✓
Confirm Tenant admin password * ⓘ	<input type="password"/>	

Global Admin Username: Email for Intel® EMA administrator

Tenant Admin Username: Email for Intel® EMA tenant administrator

Select the box below and complete each of the fields to customize additional Intel EMA configuration parameters.

Customize configuration parameters
(leave unchecked to accept defaults)

Click here for customized Intel EMA configuration parameters. Leave blank for default

Select the checkbox below to customize the Intel EMA fully qualified domain name. This option is necessary if load balancing will be used in a distributed architecture, use of a custom domain name is desired, etc.

Customize the Intel EMA FQDN
(leave unchecked if using VM FQDN)

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Create a new Azure SQL resource

Select an existing Azure SQL server or create a new Azure SQL server. If using an existing resource, the firewall rules for the SQL server must be configured to allow access from all Azure resources. Firewall rules will be created automatically if creating a new SQL resource.

Please be aware that use of Azure SQL servers is a fully functional preview feature at this time. Full validation for use with Intel EMA is ongoing.

New or use existing Azure SQL * ⓘ	<input type="text" value="Create new Azure SQL resource"/>
SQL Account * ⓘ	<input type="text" value="sqlaccount"/>
SQL account password * ⓘ	<input type="password" value="*****"/>
Confirm SQL account password * ⓘ	<input type="password"/>

Enter Azure SQL account credentials

Select the box below and complete each of the fields to customize the new Azure SQL resource. It is highly recommended to accept the default SQL server name as it must be globally unique across all Azure resources.

Select to specify SQL names (leave unchecked for auto-generated)	<input checked="" type="checkbox"/>
SQL server name (Server name must be unique) * ⓘ	<input type="text" value="sql-9326c89a-61c7-4617-87db-c3d10fbee38a"/>
Database name * ⓘ	<input type="text" value="ema_db"/>

Once you complete the form, click **Review + create**:

<input type="button" value="Review + create"/>	<input type="button" value=" < Previous"/>	<input type="button" value="Next : Review + create >"/>
------------------------------------------------	-----------------------------------------------	------------------------------------------------------------

Additional Resources

- [Intel EMA Release Notes \(Intel\(R\) EMA Release Notes.pdf\)](#)
- [Intel EMA User Guide \(Intel-EMA-Admin-and-Usage-Guide.pdf\)](#)
- [Readme \(Configuring LAN-less Endpoints to ACM.pdf\)](#)
- [Installation Guides \(Intel\(R\) EMA Web Deployment Guide for GCP.pdf\)](#)
- [Installation Guides \(Intel\(R\) EMA Web Deployment Guide for Azure.pdf\)](#)
- [Installation Guides \(Intel\(R\) EMA Web Deployment Guide for AWS.pdf\)](#)
- [Azure Pricing Calculator \(https://azure.microsoft.com/en-us/pricing/calculator/\)](https://azure.microsoft.com/en-us/pricing/calculator/)
- [Source Scripts – Downloadable .zip file for advanced use cases](#)