Azure VM Encryption at Host (Preview)

Date published: 2022-06-06 Date modified: 2024-12-04

Legal Notice

© Cloudera Inc. 2022. All rights reserved.

The documentation is and contains Cloudera proprietary information protected by copyright and other intellectual property rights. No license under copyright or any other intellectual property right is granted herein.

Unless otherwise noted, scripts and sample code are licensed under the Apache License, Version 2.0.

Copyright information for Cloudera software may be found within the documentation accompanying each component in a particular release.

Cloudera software includes software from various open source or other third party projects, and may be released under the Apache Software License 2.0 ("ASLv2"), the Affero General Public License version 3 (AGPLv3), or other license terms.

Other software included may be released under the terms of alternative open source licenses. Please review the license and notice files accompanying the software for additional licensing information.

Please visit the Cloudera software product page for more information on Cloudera software. For more information on Cloudera support services, please visit either the Support or Sales page. Feel free to contact us directly to discuss your specific needs.

Cloudera reserves the right to change any products at any time, and without notice. Cloudera assumes no responsibility nor liability arising from the use of products, except as expressly agreed to in writing by Cloudera.

Cloudera, Cloudera Altus, HUE, Impala, Cloudera Impala, and other Cloudera marks are registered or unregistered trademarks in the United States and other countries. All other trademarks are the property of their respective owners. Disclaimer: EXCEPT AS EXPRESSLY PROVIDED IN A WRITTEN AGREEMENT WITH CLOUDERA, CLOUDERA DOES NOT MAKE NOR GIVE ANY REPRESENTATION, WARRANTY, NOR COVENANT OF ANY KIND, WHETHER EXPRESS OR IMPLIED, IN CONNECTION WITH CLOUDERA TECHNOLOGY OR RELATED SUPPORT PROVIDED IN CONNECTION THEREWITH. CLOUDERA DOES NOT WARRANT THAT CLOUDERA PRODUCTS NOR SOFTWARE WILL OPERATE UNINTERRUPTED NOR THAT IT WILL BE FREE FROM DEFECTS NOR ERRORS, THAT IT WILL PROTECT YOUR DATA FROM LOSS, CORRUPTION NOR UNAVAILABILITY, NOR THAT IT WILL MEET ALL OF CUSTOMER'S BUSINESS REQUIREMENTS. WITHOUT LIMITING THE FOREGOING, AND TO THE MAXIMUM EXTENT PERMITTED BY APPLICABLE LAW, CLOUDERA EXPRESSLY DISCLAIMS ANY AND ALL IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO IMPLIED WARRANTIES OF MERCHANTABILITY, QUALITY, NON-INFRINGEMENT, TITLE, AND FITNESS FOR A PARTICULAR PURPOSE AND ANY REPRESENTATION, WARRANTY, OR COVENANT BASED ON COURSE OF DEALING OR USAGE IN TRADE.

Contents

| Legal Notice | 2 |
|---|---|
| Contents | 3 |
| Introduction | 4 |
| Limitations | 4 |
| Prerequisites | 4 |
| Enable encryption at host for an environment | 5 |
| Enable encryption at host for a Cloudera Data Hub cluster | 8 |

Introduction

You can optionally enable encryption at host for Data Lake, FreeIPA, and Cloudera Data Hub clusters. Currently, you need to enable it individually for each Virtual Machine (VM) on Azure Portal.

As described in <u>Azure documentation</u>, when you enable encryption at host, the encryption starts on the VM host, where the data for your temporary disk, and OS and data disk caches are stored. After enabling encryption at host, all this data is encrypted at rest and flows encrypted to the Storage service, where it is persisted. Thus, encryption at host essentially encrypts your data from end to end.

Temporary disks and ephemeral OS disks are encrypted at rest with platform-managed keys when you enable end-to-end encryption. The OS and data disk caches are encrypted at rest with either customer-managed keys (CMK) or platform-managed keys, depending on the selected disk encryption type. For example, if a disk is encrypted with customer-managed keys, then the cache for the disk is encrypted with customer-managed keys, and if a disk is encrypted with platform-managed keys then the cache for the disk is encrypted with platform-managed keys.

Encryption at host does not use your VM's CPU and doesn't impact your VM's performance.

Related links Encryption at host - End-to-end encryption for your VM data

Limitations

When using Azure VM encryption at host with Cloudera, the following limitations apply:

- Even if you wish to use the feature for a single subscription only, you need to enable encryption at host for all subscriptions within your Azure tenant.
- This feature can currently be configured individually for each Data Lake and FreeIPA node. Additionally, encryption at host for Data Hub nodes can be configured individually for each Cloudera Data Hub node. The configuration must be performed on the Azure Portal.

Prerequisites

Prior to enabling encryption at host in Cloudera, meet the following Azure prerequisites:

 Enable encryption at host, as described in <u>Use the Azure CLI to enable end-to-end</u> <u>encryption using encryption at host: Prerequisites</u> in Azure documentation.
 Note: You need to enable this for each subscription within your Azure tenant.

 If you would like to use Azure disk encryption with a customer-managed key (CMK) along with encryption at host, meet the prerequisites mentioned in <u>Customer managed</u> <u>encryption keys</u>.

Enable encryption at host for an environment

Use these steps to enable encryption at host for an existing Cloudera environment running on Azure. The steps involve manually enabling encryption at host for each Data Lake and FreeIPA VM via the Azure Portal.

Steps

- 1. In the Cloudera Management Console, select **Environments** and then click on the specific environment.
- 2. Make sure that your Cloudera environment is running.
- 3. Click on the **Data Lake** tab and then navigate to the **Hardware** tab. Here you can find the list of all Data Lake VMs organized into host groups:

| Environments / test-encryption-a | at-host / Data Lake / Hardware | | | |
|--|--|--|--------------------------------|----------------------------|
| cm:cdp:datalake:us-west-1:c8dbde4b-ccce-4f8d-a | 581-830970ba4908:datalake:3f8a7521-e999-4ac7-8a8a-7ebf57212867 | P | | |
| Data Hubs Data Lake Cluster Defini | tions Summary | | | |
| | | > SHOW CLI COMMAND 9 RETR | A REPAIR B RENEW CERTIFI | CATE |
| | | | | |
| A Environment Details | | | | |
| NAME test-encryption-at-host | CREDENTIAL juhig-int-azure | REGION westus2 | AVAILABILITY ZON westus2 | E |
| A | | | | |
| Services | | | | |
| 🔇 Atlas 🗹 🧧 🗠 CM-UI 🗹 | 🛦 HBase UI 🗹 🛛 🌮 Name Node 🗗 | 🔞 Ranger 🗹 🥠 Solr Server | 🗹 🛛 🔣 Token Integration 🗹 | |
| CM Cloudera Manager Info | | | | |
| | | CM VERSION | RUNTIME VERSION | LOGS |
| https://test-encryption-at-host-master0.test- | enc.svbr-nqvp.int.cldr.work/test-encryption-at-host/cdp-proxy | /cmf/home/ 7.6.0 | 7.2.14-1.cdh7.2.14.p0.22079220 | Command logs, Service logs |
| Event History Endpoints (6) Tags (5) Ha | rdware Network Telemetry Repository Details Image Deta | ails Recipes (0) Cloud Storage Attached clus | sters (0) Database Upgrade | |
| Master | | | | Ju. |
| | FQDN | | Status Private IP | Public IP |
| test-encryption-at-host153649m0 | P Running test-encryption-at-host-master0.t | est-enc.svbr-navp.int.cldr.work @ | SERVICES_HEALTHY 10.10.0.7 | 20.125.56.254 CM Server >> |
| | | | | |
| Idbroker | | | | P |
| ai 🗋 | FQDN | | Status Private IP | Public IP |
| Lest-encryption-at-host153649i1 | C Running test-encryption-at-host-idbroker | 0.test-enc.svbr-nqvp.int.cldr.work | SERVICES_HEALTHY 10.10.0. | 6 🖾 20.125.57.23 🖾 😕 |

- 4. Click on each of the VM links and a new browser tab will open for each, redirecting you to the Azure Portal. You need to do this individually for each VM.
- 5. For each of the VMs, navigate to the **Disks** section in Azure Portal. It will show the "Encryption at Host" as "disabled":

| test-encryption-at-ł | nost153649i1 🖈 … | | | | |
|-----------------------------|------------------------------------|--|---------------------------|----------------------------|--|
| ✓ Search (Cmd+/) « | 🖉 Connect 🗸 ▷ Start 🤇 Re | start 🗌 Stop 😥 Capture 📋 Delete 🖒 Refresh 🔋 | Open in mobile 🛛 CLI / PS | R Feedback | |
| Overview | Advisor (1 of 2): Guest Configurat | ion extension should be installed on machines $ ightarrow $ | | | |
| Activity log | Minturel manchine | | | Maturalian | |
| Access control (IAM) | Computer name | test-encryption-at-host-idbroker0 | 2 | Public IP address | 20,125,57,23 |
| 🔷 Tags | Health state | - | | Public IP address (IPv6) | - |
| Diagnose and solve problems | Operating system | Linux (centos 7.9.2009) | | Private IP address | 10.10.0.6 |
| Cattings | Publisher | - | | Private IP address (IPv6) | |
| Settings | Offer | - | | Virtual network/subnet | test-encryption-at-host/subnet1 |
| Seal Networking | Plan | - | | DNS name | Configure |
| S Connect | VM generation | V1 | _ | | |
| Bisks | Agent status | Ready | . | Size | |
| 📮 Size | Agent version | 2.7.0.6 | | Size | Standard D2s v3 |
| O Security | Host group | None | | vCPUs | 2 |
| Advisor recommendations | Host | | | RAM | 8 GiB |
| Extensions + applications | Proximity placement group | | | Disk | |
| G Continuous delivery | Colocation status | N/A | | OS disk | test-encryption-at-host153649-osDiski1 |
| Continuous delivery | Capacity reservation group | • | | Encryption at host | Disabled |
| Availability + scaling | passag | | | Azure disk encryption | Not enabled |
| Configuration | Availability + scaling | | | Ephemeral OS disk | N/A |
| 🐍 Identity | Availability zone | | | Data disks | 0 |
| Properties | Scale Set | | | | |
| A Locks | Security type | | | Azure Spot | |
| | Security type | Standard | | Azure Spot | |
| Operations | , ., F. | | | Azure Spot eviction policy | |
| M. Destine | ET an an an an an | | | | |

Leave the Azure Portal browser tabs open. You will need to get back to them shortly.
Navigate back to the Cloudera Management Console to repeat the same steps for FreeIPA VMs. To access FreeIPA VMs, navigate to environment details and click on the Summary tab. Next, scroll down to the FreeIPA tile. Here you can find the list of all FreeIPA VMs organized into host groups:

| eng-ml-prod-env-a crn:cdp:environments:us West US 2 - westus2 | rure ♥ west-1:12a0079b-1591-4ca0-b721-a446bda74e67:envi | vironment:4924e95f-92e7-4d1c-94ac-1915236a4 | 494 Ø Actions • |
|---|---|---|--|
| DATA LAKE NAME eng-ml-prod-env-azure-dl ATA LAKE CRN m:cdp:datalake:us-west-1:12a0079b-1591- | NODES DATA LAKE SCALE DATA LA 2 Light Duty OR Rur 4ca0-b721-a446bda74e67:datalake:a785f95e-8244-4b7 | ake status nning 72-9c37-9b463347e66e 9 | 🛇 Atlas 🗗 🛇 Ranger 🗗 🛇 Data Catalog 🗗 |
| ata Hubs Data Lake Cluster [| efinitions Summary | | |
| General CRN: | crn:cdp:environments:us-v a446bda74e67:environme 1915236a4494 ₽ | west-1:12a0079b-1591-4ca0-b721- ent:4924e95f-92e7-4d1c-94ac- | Event History Environment creation successfully finished 5/31/22, 10.19 AM FreeIPA creation/registration started for envir 5/31/22, 10.07 AM |
| FreeIPA Status: Running | Instance FQDN ↑ Status | Actions | |

There is no link to Azure Portal, but you can copy the IDs of the VMs and search for them on Azure Portal. Just as you did for each Data Lake node, for each FreeIPA node,

navigate to the **Disks** section in Azure Portal. It will show the "Encryption at Host" as "disabled". Again, leave the Azure Portal browser tabs open. You will need to get back to them shortly.

- 7. Navigate back to the Cloudera Management Console and stop the environment by clicking the **Stop** button in the top right corner in environment details. If you need detailed instructions, see <u>Stop and restart an environment</u>.
- 8. Once the environment has been successfully stopped, navigate back to the Azure Portal browser tabs opened earlier.
- 9. In Azure Portal, perform this for each VM of the Data Lake and for each VM of FreeIPA:
 - a. Navigate to the **Disks** section.
 - b. Within the Disks tab, navigate to the Additional settings section.
 - c. Select "Yes" for the "Encryption at Host" setting:

| test-encryption-at-host153649i1 | | |
|-----------------------------------|---|---|
| Ultra disk | | |
| Enable Ultra disk compatibility 🕕 | O Yes | |
| | No | |
| | Ultra disk is available only for Availability Zones in westus2. | |
| Encryption at host | | |
| Encryption at host ① | Yes | |
| | ○ No | |
| | | |
| Encryption settings | volume encryption for the OS and data dicks Learn more about Azure Dick | |
| Encryption. | bit the enclyption for the os and data disks. Learn more about Azore bisk | |
| Disks to approx | | |
| Disks to encrypt U | | ~ |
| None | | |
| None | | |
| None | | |

- d. Click on Save.
- e. Once the update is complete, you will see a message stating "Updated virtual machine".
- 10. Before proceeding, ensure that you have performed the above steps for all Data Lake VMs and for all FreeIPA VMs.
- 11. Navigate back to the browser tab with the Cloudera Management Console and restart the environment by clicking the **Start** button in the top right corner in environment details. If you need detailed instructions, see <u>Stop and restart an environment</u>.
- 12. Once the environment has been successfully restarted, find the Hardware section in the Data Lake tab, just like you did earlier, and click on each of the Data Lake VM links. A new browser tab will open for each, redirecting you to the Azure Portal. For each of these VMs, navigate to the Disks section in Azure Portal. It will show the "Encryption at Host" as "enabled":

| test-encryption-at-h | ost153649i1 🖉 🗠 | | | | | |
|-----------------------------|-------------------------------------|--|--------------------------|--------------------|----------------------------|--|
| | 🖋 Connect 🗸 ▷ Start 🦿 Re | start 🗌 Stop 🔯 Capture 📋 Delete | 🕐 Refresh 🔋 Open in mob | ile 🗟 CLI / PS 🕺 | Feedback | |
| Overview | Advisor (1 of 2): Guest Configurati | on extension should be installed on machines $	imes$ | | | | |
| Activity log | | | | | | |
| Access control (IAM) | Subscription ID : 3ddda1c7- | d1f5-4e7b-ac81-0523f483b3b3 | | DNS | name : Not config | ured |
| Tags | Tags (edit) : owner : ju | hig Cloudera-Cre : crn:altus:iam:us-west-1 | :c8dbde4b-ccce-4f8d-a581 | dw-env-owner : jui | nig Cloudera-Envi : crn:cd | p:environments:us-west-1:c8dbde4b-ccce-4 |
| Diagnose and solve problems | Properties Monitoring Cap | abilities (7) Recommendations (2) Tut | orials | | | |
| Settings | | | | | | |
| 🧟 Networking | Virtual machine | 1 | | 2 | Networking | |
| Ø Connect | Health state | test-encryption-at-nost-fi | | | Public IP address (IPu6) | test-encryption-at-nost15564911 |
| Bisks | Operating system | Linux | | | Private IP address | 10.10.0.6 |
| Size | Publisher | - | | | Private IP address (IPv6) | - |
| Security | Offer | | | | Virtual network/subnet | test-encryption-at-host/subnet1 |
| Advisor recommendations | Plan | | | | DNS name | Configure |
| Suterviews - emplications | VM generation | V1 | | | | |
| Extensions + applications | Host group | None | | | Size | |
| Continuous delivery | Host | | | | Size | Standard D2s v3 |
| Availability + scaling | Proximity placement group | | | | vCPUs | 2 |
| 💼 Configuration | Colocation status | N/A | 1 | | RAM | 8 GiB |
| 🚷 Identity | Capacity reservation group | | | | Disk | |
| Properties | | | | | OS disk | test-encryption-at-host153649-osDiski1 |
| A Locks | Availability + scaling | | | | Encryption at host | Enabled |
| | Availability zone | | | | Azure disk encryption | Not enabled |
| Operations | Scale Set | | | | Ephemeral OS disk | N/A |
| × Bastion | | | | | Data disks | 0 |

Next, confirm the same for all FreeIPA VMs in the Summary tab > FreeIPA tile.

Enable encryption at host for a Cloudera Data Hub cluster

Use these steps to enable encryption at host for an existing Cloudera Data Hub running on Azure. The steps involve manually enabling encryption at host for each Cloudera Data Hub VM via the Azure Portal.

Before you begin

Not all Azure VM types support encryption at host. In order to use encryption at host, when creating your Data Hub, select VM types that support encryption at host for each Data Hub host group. VM types can be selected per host group during Cloudera Data Hub creation in **Advanced Options > Hardware and Storage**. To find which VM types support encryption at host, follow the steps in <u>Finding supported VM sizes</u>.

Steps

- 1. In the Cloudera Management Console, select **Data Hubs**, and click on the specific Data Hub.
- 2. Make sure that your Cloudera Data Hub cluster is running.
- 3. In **Data Hub details**, navigate to the **Hardware** tab. Here you can find the list of all Cloudera Data Hub VMs organized into host groups:

| Data Hubs / testhost / Hardw | are | | | | |
|---|---|--|--------------------------------|------------------------------|--------------|
| NAME test-encryption-at-host | DATA LAKE | CREDENTIAL juhig-int-azure | REGION westus2 | AVAILABILITY ZONE westus2 | |
| | | | | | |
| CM-UI 🗗 🍵 Data Analyt | ics Studio 🗗 🚽 HUE 🗗 🎲 | Job History Server 🗗 🛛 🗤 VY Livy Serv | rer 🗗 🛛 🌮 Name Node 🖸 | 🕈 🛛 🍓 Queue Manager 🗗 | |
| 🔛 Resource Manager 🗹 🔧 | Spark History Server 🗹 🔣 Token Integ | gration 🗹 🥒 Zeppelin 🗹 | | | |
| | | | | | |
| Cloudera Manager Info | | CM VERSION | RUNTIME VERSION | LOGS | |
| https://testhost-master0.test-enc.svbr-ng | vp.int.cldr.work/testhost/cdp-proxy/cmf/home/ | 7.6.0 | 7.2.14-1.cdh7.2.14.p0.22079220 | Command logs , Servi | ice logs |
| Event History Autoscale Endpoints (6) | Tags (6) Hardware Network Telemetry Reposi | tory Details Image Details Recipes (0) Cloud | Storage Database Upgrade | | |
| Master | | | | | 1 |
| a 10 | FQDN | s | Status Private | IP Public IP | |
| testhost153661m @ | Running testhost-master0.test-enc.sv | br-nqvp.int.cldr.work 🗈 S | SERVICES_HEALTHY 10.10. | 0.10 🗈 20.98.89.237 🖻 | CM Server >> |
| Compute | | | | | T |
| | CODN | | Status | Drivete ID Dublic ID | |
| | Running testhost-compute0 test-en | c sybr-navo int oldr work | SERVICES HEALTHY | 10 10 0 9 10 20 112 0 97 | 0 » |
| | Channing teamost computer.teat en | | | 10.10.0.9 20.112.0.97 | |
| Worker | | | | | Ē 8 |
| a | FQDN | | Status | Private IP Public IP | |
| 🗌 🖵 testhost153661w2 🖻 | Running testhost-worker0.test-enc. | svbr-nqvp.int.cldr.work | SERVICES_HEALTHY | 10.10.0.8 🖾 20.109.155.213 (| o » |

- 4. Click on each VM link and a new browser tab will open for each, redirecting you to the Azure Portal. You need to do this individually for each VM.
- 5. For each of the VMs, navigate to the **Disks** section in Azure Portal. It will show the "Encryption at Host" as "disabled":

| test-encryption-at-ho Virtual machine | ost153649i1 🖈 … | | | | |
|--|---------------------------------------|--|--------------|---|--|
| ✓ Search (Cmd+/) « | 🖉 Connect 🗸 ▷ Start Re | start 🗌 Stop 🔯 Capture 📋 Delete 🖒 Refresh 🔋 Open in mobile | 🗟 CLI / PS 🕺 | Feedback | |
| Overview | Advisor (1 of 2): Guest Configuration | on extension should be installed on machines $ ightarrow$ | | | |
| Activity log | Virtual machine | | 2 | Networking | |
| Tags | Computer name Health state | test-encryption-at-host-idbroker0 - | | Public IP address Public IP address (IPv6) | - 20.125.57.23 |
| Diagnose and solve problems | Operating system | Linux (centos 7.9.2009) | | Private IP address | 10.10.0.6 |
| Settings | Publisher | | | Private IP address (IPv6) | |
| S Networking | Offer | - | | Virtual network/subnet | test-encryption-at-host/subnet1 |
| A Connect | Plan | - | | DNS name | Configure |
| | VM generation | V1 | | Size | |
| S Disks | Agent status | Ready | | Size | Standard D2s v3 |
| Size | Agent version | 2.7.0.6 | | vCPUs | 2 |
| 😌 Security | Host group | None | | RAM | 8 GiB |
| Advisor recommendations | Host | • | | | |
| Extensions + applications | Proximity placement group | | 8 | Disk | |
| 🐔 Continuous delivery | Colocation status | N/A | | OS disk | test-encryption-at-host153649-osDiski1 |
| Availability + scaling | Capacity reservation group | · · | | Encryption at host | Disabled |
| | Availability + scaling | - | | Azure disk encryption | Not enabled |
| Configuration | Availability zone | | | Ephemeral OS disk | N/A |
| 16 Identity | Scale Set | | | Data disks | 0 |
| Properties | | | | | |
| A Locks | 💼 Security type | | 4 | Azure Spot | |
| Operations | Security type | Standard | | Azure Spot existion policy | |
| | -7 | | | Azure spot eviction policy | |

- 6. Leave the Azure Portal browser tabs open. You will need to get back to them shortly.
- Navigate back to the browser tab with the Cloudera Management Console and restart the Cloudera Data Hub cluster by clicking the **Stop** button in the top right corner in environment details. If you need detailed instructions, see <u>Stop a cluster</u>.

- 8. Once the Cloudera Data Hub cluster has been successfully stopped, navigate back to the Azure Portal browser tabs opened earlier.
- 9. In Azure Portal, perform the following for each Cloudera Data Hub VM:
 - a. Navigate to the **Disks** section.
 - b. Within the Disks tab, navigate to the **Additional settings** section.
 - c. Select "Yes" for the "Encryption at Host" setting:

| Home > test-encryption-at-host153 | 8649i1 > | |
|--|---|--------|
| Disk settings test-encryption-at-host153649i1 | | |
| Ultra disk | | |
| Enable Ultra disk compatibility ① | YesNo | |
| | Ultra disk is available only for Availability Zones in westus2. | |
| Encryption at host | | |
| Encryption at host ① | YesNo | |
| Encryption settings Azure Disk Encryption (ADE) provides v Encryption. | olume encryption for the OS and data disks. Learn more about Azure Disk | |
| Disks to encrypt ① | | |
| None | | \sim |
| | | |
| A The VM image is not currently sup | ported for ADE. Learn more | |
| | | |
| | | |

- d. Click on Save.
- e. Once the update is complete, you will see a message stating "Updated virtual machine".
- 10. Before proceeding, ensure that you have performed the above steps for all Data Hub VMs.
- 11. Navigate back to the browser tab with the Cloudera Management Console and restart the Cloudera Data Hub cluster by clicking the **Start** button in the top right corner. If you need detailed instructions, see <u>Restart a cluster</u>.
- 12. Once the environment has been successfully restarted, find the **Hardware** section in the **Data Hub details**, just like you did earlier, and click on each of the Cloudera Data Hub VM links.. A new browser tab will open for each, redirecting you to the Azure Portal. For each of these VMs, navigate to the **Disks** section in Azure Portal. It will show the "Encryption at Host" as "enabled":

| test-encryption-at-h | ost153649i1 🖈 🗠 | | | | | | |
|-----------------------------|-----------------------------------|--|---------------------------------|-------------------|-----------------------------|---|--|
| ✓ Search (Cmd+/) « | 🖉 Connect 🗸 ▷ Start 🦿 R | estart 🗌 Stop 🔯 Capture 🧻 De | lete 💍 Refresh 🚦 Open in mo | bile 📙 CLI / PS 🕴 | Feedback | | |
| Overview | Advisor (1 of 2): Guest Configura | ion extension should be installed on machine | 15 → | | | | |
| Activity log | | | | | | | |
| Access control (IAM) | Subscription ID : 3ddda1c7- | d1f5-4e7b-ac81-0523f483b3b3 | | DNS | 5 name : Not confi | gured | |
| Tags | Tags (edit) : owner : ju | uhig Cloudera-Cre : crn:altus:iam:us | -west-1:c8dbde4b-ccce-4f8d-a581 | dw-env-owner : ju | uhig Cloudera-Envi : crn:co | dp:environments:us-west-1:c8dbde4b-ccce-4 | |
| Diagnose and solve problems | Properties Monitoring Cap | abilities (7) Recommendations (2) | Tutorials | | | | |
| Settings | 1 Mintural marshine | | | | Networking | | |
| Networking | Computer name | test-encryption-at-host-i1 | | * | Public IP address | test-encryption-at-host153649i1 | |
| Ø Connect | Health state | - | | | Public IP address (IPv6) | - | |
| Bisks | Operating system | Linux | | | Private IP address | 10.10.0.6 | |
| 📮 Size | Publisher | | | | Private IP address (IPv6) | | |
| © Security | Offer | | | | Virtual network/subnet | test-encryption-at-host/subnet1 | |
| Advisor recommendations | Plan | | | | DNS name | Configure | |
| Extensions + applications | VM generation | V1 | | | | | |
| | Host group | None | | | Size | Standard D2c v2 | |
| | Host | | | | VCPLIA | 2 | |
| Availability + scaling | Proximity placement group | | • | | DAM | 2 9 CiD | |
| Configuration | Colocation status | N/A | · · | | RAIVI | 0 GIB | |
| 🚷 Identity | Capacity reservation group | | | | Disk | | |
| Properties | - | | | | OS disk | test-encryption-at-host153649-osDiski1 | |
| A Locks | Availability + scaling | | | | Encryption at host | Enabled | |
| | Availability zone | | | | Azure disk encryption | Not enabled | |
| Operations | Scale Set | | | | Ephemeral OS disk | N/A | |
| × Bastion | 🚔 Coquity type | | | | Data disks | 0 | |