

Trust Center 25.03.1

This document describes each container image in use in the Trust Center version 25.03.1 deployment.

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Component List

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Verifying Container Images

First, copy the container registry password from `global.images.password` in your Trust Center's `config.yaml`.

Then, log into the container registry:

```
$ docker login docker.cloudsmith.io
Username: teradici/trust-center
Password: <Password>
```

(note: If using a beta release, use `teradici/trust-center-beta` instead)

Next, check the details for a specific container image in the remote registry:

```
$ docker buildx imagetools inspect <Image tag>
Name:      <Image tag>
MediaType: application/vnd.docker.distribution.manifest.v2+json
Digest:    sha256:002f688e9756d464d2064b526d4446306210198e8c8b234b36c9a8d5
```

<Image tag> should be the full URI to the image, e.g.:

```
docker.cloudsmith.io/teradici/trust-center/fluents/fluentsd:v1.16-2
```

Now, pull the image to download it locally:

```
$ docker pull <Image tag>
[...]
$ docker inspect --format='{{index .RepoDigests 0}}' <Image tag>
<Image tag>@sha256:002f688e9756d464d2064b526d4446306210198e8c8b234b36c9a8d
```

The image sha256 hash should match between the remote container registry and the local copy.

Additionally, the hash calculated here should match the image hash listed for each container image in these READMEs.

Component Details

Trust Center Init Job

Metadata

Field	Value
Container Image	docker.cloudsmith.io/teradici/trust-center/trust-center/trust-center-ctl
Product	Trust Center
Supplier	HP Inc.
Version	25.03.1
Image Hash	sha256:544a4374676fa49e63a960e6823012079c150ded99996cc90c45609c9842e420

Description

Container which runs on initial installation and upgrade of the Trust Center. Initializes and upgrades Trust Center service configuration.

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Busybox

Metadata

Field	Value
Container Image	docker.cloudsmith.io/teradici/trust-center/library/busybox
Product	Trust Center
Supplier	Open Source
Version	1.36.1
Image Hash	sha256:023917ec6a886d0e8e15f28fb543515a5fcd8d938edb091e8147db4efed388ee

Description

Used for various init containers preventing services from starting up before dependencies are ready.

We use the official Docker image for Busybox: https://hub.docker.com/_/busybox

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Activity Log Service

Metadata

Field	Value
Container Image	docker.cloudsmith.io/teradici/trust-center/ms_activity_log
Product	Trust Center
Supplier	HP Inc.
Version	0.0.768_84f4c1f
Image Hash	sha256:67dea90c8be993dfc79ec697d89647d13474fcf3a0abed979638782ad598f7c9

Description

The Activity Log service handles events generated by Trust Center services, and exposes an API to query activity logs.

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Authorization Service

Metadata

Field	Value
Container Image	docker.cloudsmith.io/teradici/trust-center/ms_authorization
Product	Trust Center
Supplier	HP Inc.
Version	0.0.5559_fde52ff
Image Hash	sha256:1f667811704697c58b9f98785b6f039a0dfbcd2bae35733abdc91a3f6611e093

Description

The Authorization service handles authentication and authorization for Trust Center API service accounts.

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Asset Management Service

Metadata

Field	Value
Container Image	docker.cloudsmith.io/teradici/trust-center/trust-center/asset-mgmt
Product	Trust Center
Supplier	HP Inc.
Version	25.03.1
Image Hash	sha256:f5fb87a04f8058cff201cbcf5d54f4fac02c46662427de8a287de7eda7df45f6

Description

The Asset Management service enables storing and retrieving assets (such as support bundles, branding assets) within the Trust Center.

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Command Service

Metadata

Field	Value
Container Image	docker.cloudsmith.io/teradici/trust-center/trust-center/command
Product	Trust Center
Supplier	HP Inc.
Version	25.03.1
Image Hash	sha256:ebae54598c91dfd4047e4924f5a6867d81ae76ca0906a6cd222f06313c4bebf8

Description

The Command service enables sending commands to endpoints connected to the Trust Center and processing command status updates.

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Endpoint Connector Service

Metadata

Field	Value
Container Image	docker.cloudsmith.io/teradici/trust-center/trust-center/endpoint-connector
Product	Trust Center
Supplier	HP Inc.
Version	25.03.1
Image Hash	sha256:de0cd5d470a021f1d528bb0405b5ad27db538cf9f7554d274c9c55077f7a740c

Description

The Endpoint Connector service provides APIs which Trusted Zero Clients and other endpoints use to communicate with the Trust Center.

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Endpoint Registry Service

Metadata

Field	Value
Container Image	docker.cloudsmith.io/teradici/trust-center/trust-center/endpoint-registry
Product	Trust Center
Supplier	HP Inc.
Version	25.03.1
Image Hash	sha256:72097f6efd991f9f4a3613ac2de4797588639a64cde4a46698227cb021091f2d

Description

The Endpoint Registry service maintains endpoint digital twins and provides APIs for management of endpoint configuration.

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Endpoint Updater Service

Metadata

Field	Value
Container Image	docker.cloudsmith.io/teradici/trust-center/trust-center/endpoint-updater
Product	Trust Center
Supplier	HP Inc.
Version	25.03.1
Image Hash	sha256:7c25f9e6fe484e15e40aa5e2d6dca8abccb17ddc636975cee3c3be801db4a9ca

Description

The Endpoint Updater service is responsible for triggering OTA updates for connected endpoints when requested in endpoint configuration.

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Health Service

Metadata

Field	Value
Container Image	docker.cloudsmith.io/teradici/trust-center/trust-center/health
Product	Trust Center
Supplier	HP Inc.
Version	25.03.1
Image Hash	sha256:8a4cb45c6a7f54060226e376b96188fa9ac8e8a297bfb9d2e145996e52c5ad4a

Description

The Health service provides API endpoints for Trust Center deployment health-checks.

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OSTree Sync Service

Metadata

Field	Value
Container Image	docker.cloudsmith.io/teradici/trust-center/trust-center/ostree-sync
Product	Trust Center
Supplier	HP Inc.
Version	25.03.1
Image Hash	sha256:db74d1e9b965a93b4b7775c01dc4a3c9b26e77558828f74de7ff9010a871c4ae

Description

The OSTree Sync service is responsible for storing Trusted Zero Client OTA update images and serving them to endpoints when requested.

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PKI Adapter Service

Metadata

Field	Value
Container Image	docker.cloudsmith.io/teradici/trust-center/trust-center/pki-adapter
Product	Trust Center
Supplier	HP Inc.
Version	25.03.1
Image Hash	sha256:53015293558579f333bff756b5ad879e0deea226eea738f90b88586b0f628e64

Description

The PKI Adapter Service is responsible for providing an interface for Trust Center services to request certificates and tokens generated by internal and external issuers.

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Rotate Signing Key Job

Metadata

Field	Value
Container Image	docker.cloudsmith.io/teradici/trust-center/job_rotate_signing_key
Product	Trust Center
Supplier	HP Inc.
Version	0.0.306_1fd114b
Image Hash	sha256:2dd340a6ae9d7f6b9cb880aa3f3196cbbaf2c037b54480df0879dc234200e982

Description

The Rotate Signing Key job is used as a periodic CronJob in the Trust Center to rotate internal token signing keys.

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Secret Management Service

Metadata

Field	Value
Container Image	docker.cloudsmith.io/teradici/trust-center/ms_secret_mgmt
Product	Trust Center
Supplier	HP Inc.
Version	0.0.690_b709211
Image Hash	sha256:ed8044a52a74886470b84ea3ddfba3762eef537fed16d6ef3e8568f99ae4370f

Description

The Secret Management service provides an interface for Trust Center services to access key/value secrets from internal (Vault) and external secret storage providers.

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Trust Enforcement Service

Metadata

Field	Value
Container Image	docker.cloudsmith.io/teradici/trust-center/trust-center/trust-enforcement
Product	Trust Center
Supplier	HP Inc.
Version	25.03.1
Image Hash	sha256:144bad6870bae45c26848833b955b53ddbc22184567bb489961cd41f094715c9

Description

The Trust Enforcement Service is responsible for facilitating policy evaluation and enforcement on endpoints connected to the Trust Center.

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Vault Unseal Job

Metadata

Field	Value
Container Image	docker.cloudsmith.io/teradici/trust-center/trust-center/vault-unseal
Product	Trust Center
Supplier	HP Inc.
Version	25.03.1
Image Hash	sha256:4a993881b751cef23f8224fca24d86c9c6d28b682b765f608249c79f3f471cb0

Description

The Vault Unseal job is a CronJob used by the Trust Center to ensure the internal Vault instance (for on-prem deployments) is unsealed.

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External API Docs

Metadata

Field	Value
Container Image	docker.cloudsmith.io/teradici/trust-center/trust-center/docs-external-v1
Product	Trust Center
Supplier	HP Inc.
Version	25.03.1
Image Hash	sha256:e37244b337539989463197070e67699b232b3f96eb596feae4803cf1651591d6

Description

This container serves a copy of the External API documentation corresponding to this version of the Trust Center.

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Vault

Metadata

Field	Value
Container Image	docker.cloudsmith.io/teradici/trust-center/hashicorp/vault
Product	Hashicorp Vault
Supplier	Hashicorp
Version	1.18.2
Image Hash	sha256:0d40cc366fd251520002c170f3f3c9a89e935d303313ed2f36cbc58fd3a530ef

Description

Hashicorp Vault is a third party component deployed with the Trust Center in on-premises deployments to securely store deployment secrets.

We use the official Docker image for Hashicorp Vault: <https://hub.docker.com/r/hashicorp/vault>

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Redis

Metadata

Field	Value
Container Image	docker.cloudsmith.io/teradici/trust-center/library/redis
Product	Redis
Supplier	Redis Ltd.
Version	7.4.1-alpine
Image Hash	sha256:7438ca8459132b9fe507a95fe6838fec7c55f8611ed835742a014d7a92618e4

Description

Redis is a third-party component deployed with the Trust Center to function as an in-memory cache.

We use the official Docker image for Redis: https://hub.docker.com/_/redis

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Redis Prometheus Exporter

Metadata

Field	Value
Container Image	docker.cloudsmith.io/teradici/trust-center/oliver006/redis_exporter
Product	Redis
Supplier	Open Source - Oliver006
Version	v1.66.0-alpine
Image Hash	sha256:617b1e5b51498d0e98d0b2e55abfe45a017dd0d08c37ca88e3c973c0d77fa47b

Description

Small third-party component used to export Prometheus metrics from Redis.

Uses mirrored Docker Hub image: https://hub.docker.com/r/oliver006/redis_exporter

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Kafka

Metadata

Field	Value
Container Image	docker.cloudsmith.io/teradici/trust-center/confluentinc/cp-kafka
Product	Kafka
Supplier	Confluent Inc.
Version	7.7.1
Image Hash	sha256:a21737d09496a8b9bb38b995ab021e94e952259a5a2756ee22cef1cc84f5d9fe

Description

Kafka is deployed as part of the Trust Center to handle message queueing.

We use the Kafka Docker image (Community Version) maintained by Confluent Inc.: <https://hub.docker.com/r/confluentinc/cp-kafka/>

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Kafka Prometheus Exporter

Metadata

Field	Value
Container Image	docker.cloudsmith.io/teradici/trust-center/danielqsj/kafka-exporter
Product	Kafka
Supplier	Open Source - Daniel Qian
Version	v1.8.0
Image Hash	sha256:16bbe1d1647128a7060da21c36ae27b6f052bf5b8dedba0a5cb3460dee2f7b51

Description

Small third-party component used to export Prometheus metrics from Kafka.

Uses mirrored Docker Hub image: <https://hub.docker.com/r/danielqsj/kafka-exporter>

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MariaDB

Metadata

Field	Value
Container Image	docker.cloudsmith.io/teradici/trust-center/library/mariadb
Product	MariaDB
Supplier	MariaDB Foundation
Version	10.4.29
Image Hash	sha256:f9f3c4b8fd9dc7717a903c79d847af9c783771b9e0ff3cc4fc983a40e9e5972d

Description

MariaDB is included in this release to facilitate data migration on upgrade from older Trust Center versions which required it. It will be removed in a subsequent release.

We use the official Docker image for MariaDB: https://hub.docker.com/_/mariadb

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MongoDB

Metadata

Field	Value
Container Image	docker.cloudsmith.io/teradici/trust-center/library/mongo
Product	MongoDB
Supplier	MongoDB Inc.
Version	5.0.30
Image Hash	sha256:b3857ebaf1cf7d0c75090776ef76fb01cc142fe1ca0939be51da61fd5936a911

Description

MongoDB is included in on-premises deployments of the Trust Center to handle data persistence.

We use the official Docker image for MongoDB: https://hub.docker.com/_/mongo

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MongoDB Prometheus Exporter

Metadata

Field	Value
Container Image	docker.cloudsmith.io/teradici/trust-center/bitnami/mongodb-exporter
Product	MongoDB
Supplier	Bitnami
Version	0.42.1
Image Hash	sha256:3aeaedd3faf7f9e16e919fdefc954153c5a0179eb733cce509d961fb2ed9885a

Description

Small third-party component used to export Prometheus metrics from MongoDB.

Uses mirrored Docker Hub image: <https://hub.docker.com/r/bitnami/mongodb-exporter/>

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NGINX Ingress Controller

Metadata

Field	Value
Container Image	docker.cloudsmith.io/teradici/trust-center/ingress-nginx/controller
Product	NGINX
Supplier	NGINX Inc.
Version	v1.11.3
Image Hash	sha256:38b51d8833e79d97d4adf825e0bf893e322d19be54ff65a88d9320139a68adfb

Description

The Trust Center uses the NGINX Ingress controller to handle ingress to Trust Center APIs (including TLS, WAF, etc.)

We use the official Docker image for nginx-ingress: <https://hub.docker.com/r/nginx/nginx-ingress>

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Fluent Bit

Metadata

Field	Value
Container Image	docker.cloudsmith.io/teradici/trust-center/fluent/fluent-bit
Product	Fluentd
Supplier	Fluent
Version	3.2.1
Image Hash	sha256:905e3e329840de5b843c9277911ab3d82205a57851ad22b79d671b47012860c5

Description

Fluent Bit is a third party log processor deployed with the Trust Center to facilitate log aggregation.

We use the official Docker image for Fluent Bit: <https://hub.docker.com/r/fluent/fluent-bit>

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Fluentd

Metadata

Field	Value
Container Image	docker.cloudsmith.io/teradici/trust-center/ fluent/ fluentd
Product	Fluentd
Supplier	Fluent
Version	v1.17-1
Image Hash	sha256:c795c1bf9918c77a5415e2fda5825f9341f2dd0645d9adfb91f8cae3a3e6b240

Description

Fluentd is a third party log data collector deployed with the Trust Center to facilitate log aggregation.

We use the official Docker image for Fluentd: <https://hub.docker.com/r/ fluent/ fluentd>

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cert-manager CA Injector

Metadata

Field	Value
Container Image	docker.cloudsmith.io/teradici/trust-center/jetstack/cert-manager-cainjector
Product	cert-manager
Supplier	cert-manager Project
Version	v1.16.2
Image Hash	sha256:0a1f62ea3390a73239c0b4214e0ada1fb89c52d30677aebcdc3ca54508996511

Description

We include cert-manager in the Trust Center deployment to automatically manage API ingress certificates.

We use the Docker image for the cert-manager CA injector managed by Jetstack: <https://quay.io/repository/jetstack/cert-manager-cainjector>

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cert-manager Controller

Metadata

Field	Value
Container Image	docker.cloudsmith.io/teradici/trust-center/jetstack/cert-manager-controller
Product	cert-manager
Supplier	cert-manager Project
Version	v1.16.2
Image Hash	sha256:de97c3767802e33d3096ad9b276598ceee3ed92a0c67907221581b36c8ad055f

Description

We include cert-manager in the Trust Center deployment to automatically manage API ingress certificates.

We use the Docker image for the cert-manager controller managed by Jetstack: <https://quay.io/repository/jetstack/cert-manager-controller>

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cert-manager Webhooks

Metadata

Field	Value
Container Image	docker.cloudsmith.io/teradici/trust-center/jetstack/cert-manager-webhook
Product	cert-manager
Supplier	cert-manager Project
Version	v1.16.2
Image Hash	sha256:25d87dff68f00587a3e76a1e5d530d40b6f0f7872e6d634db01a593047849109

Description

We include cert-manager in the Trust Center deployment to automatically manage API ingress certificates.

We use the Docker image for the cert-manager webhooks managed by Jetstack: <https://quay.io/repository/jetstack/cert-manager-webhook>

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