

## Credential

Astra Automation

NetApp February 12, 2024

This PDF was generated from https://docs.netapp.com/us-en/astra-automation-2307/reference/credential\_overview.html on February 12, 2024. Always check docs.netapp.com for the latest.

# **Table of Contents**

Credential	
Credential overview	
Create a new credential	
List all credentials	
Retrieve a credential	
Modify a credential	
Delete a credential	

# Credential

## **Credential overview**

The Credential API provides access to securely persist objects containing sensitive information.

## Create a new credential

POST /accounts/{account\_id}/core/v1/credentials

Indicates the desired values for the Credential API resource to be created.

## **Parameters**

Name	Туре	In	Required	Description
account_id	string	path	True	ID of the containing account resource • example: {{.Account}}

## **Request Body**

Indicates the desired values for the Credential API resource to be created.

Name	Туре	Required	Description
type	string	True	Media type of the resource. Defined values are: • "application/astra- credential"
version	string	True	Version of the resource. Defined values are: • "1.0" • "1.1"

Name	Туре	Required	Description
name	string	True	JSON string containing a user-specified name. When a credential is created for a user, the name will be set to the UUID of that user. Defined values are: • Minimum length: 1 • Maximum length: 127

Name	Туре	Required	Description
Name         keyType	Type         string	Required         False	<ul> <li>JSON string containing an optional user-specified data validation type descriptor for the contents of the keyStore. Extended update constraints:</li> <li>If a keyType does not exist in the resource and is not specified in an update, the keyType must not continue to exist in the resource and is specified in an update, the keyType must be added to the resource and validation must be performed. If the validation fails, the update will fail.</li> <li>If a keyType exists in the resource and is not specified in an update, the keyType must be added to the resource and validation fails, the update will fail.</li> <li>If a keyType exists in the resource and is not specified in an update, the keyType must be preserved.</li> <li>If a keyType exists in the resource and is specified in an update, the keyType must be preserved.</li> <li>If a keyType exists in the resource and is specified in an update, and the keyType specified matches the existing keyType, the keyType must be preserved.</li> <li>If a keyType exists in the resource and is specified in an update, and the keyType specified matches the existing keyType, the update will fail.</li> <li>Defined values are:</li> </ul>
			<ul> <li>"generic" - The credential is a generic collection of data. This is equivalent to not including a keyType.</li> </ul>
			Extended validation is performed as follows: 3

Name	Туре	Required	Description
keyStore	keyStore	True	JSON object containing JSON strings. Each string in the keyStore represents part of the credential. The name of each string represents the credential part, and the corresponding key-value stores the value of that part of the credential in base64 format. Defined values are: • Conforms to the base64 Encoded Data Schema No limits are placed on the lengths of the strings.
valid	string	False	JSON string describing whether the credential is valid for use. Default value, if omitted, is "true". Defined values are: • "true" - The credential is eligible for use. • "false" - The credential must not be used.
validFromTimestamp	string	False	JSON string containing a timestamp indicating when the credential is valid. These are used for credential rotation. Defined values are: • Conforms to the ISO- 8601 Date Time Schema
4			<ul> <li>A "change" string must exist within the keyStore with a value containing a base64- encoded string "true" or "false".</li> <li>A credential of type passwordHash can only be deleted if the user ID indicated by</li> </ul>

the name does not

Name	Туре	Required	Description
validUntilTimestamp	string	False	JSON string containing a timestamp indicating when the credential is no longer valid. These are used for credential rotation. Defined values are: • Conforms to the ISO- 8601 Date Time Schema
metadata	type_astra_metadata_upd ate	False	Client and service- specified metadata associated with the resource. Defined values are: • Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.

#### Example request

"certificate" - The

credential is a PFM-

```
{
   "type": "application/astra-credential",
   "version": "1.1",
   "name": "myCert",
   "keyStore": {
        "privKey": "SGkh",
        "pubKey": "VGhpcyBpcyBhbiBleGFtcGxlLg=="
   }
}
```

- Extended validation is performed as follows:
- A "privkey" string must exist within the keyStore, with a value containing a base64- 5 encoded PEM private

Status: 201, Returns the newly created credential resource in the JSON response body.

Name	Туре	Required	Description
type	string	True	Media type of the resource. Defined values are: • "application/astra- credential"
version	string	True	Version of the resource. Defined values are: • "1.0" • "1.1"
id	string	True	Globally unique identifier of the resource. Defined values are: • Conforms to the UUIDv4 Schema
name	string	True	JSON string containing a user-specified name. When a credential is created for a user, the name will be set to the UUID of that user. Defined values are: • Minimum length: 1 • Maximum length: 127

Name	Туре	Required	Description
Name keyType	Type         string         Image: Ima	Required         False         Image: state	<ul> <li>JSON string containing an optional user-specified data validation type descriptor for the contents of the keyStore. Extended update constraints:</li> <li>If a keyType does not exist in the resource and is not specified in an update, the keyType must not continue to exist in the resource and is specified in an update, the keyType must be added to the resource and validation must be performed. If the validation fails, the update will fail.</li> <li>If a keyType exists in the resource and is not specified in an update, the keyType must be added to the resource and validation fails, the update will fail.</li> <li>If a keyType exists in the resource and is not specified in an update, the keyType must be preserved.</li> <li>If a keyType exists in the resource and is specified in an update, the keyType must be preserved.</li> <li>If a keyType exists in the resource and is specified in an update, and the keyType specified matches the existing keyType, the keyType must be preserved.</li> <li>If a keyType exists in the resource and is specified in an update, and the keyType specified matches the existing keyType, the keyType specified is different from the existing keyType, the update will fail.</li> </ul>
			<ul> <li>"generic" - The credential is a generic collection of data. This is equivalent to not including a keyType.</li> </ul>
			Extended validation is performed as follows: 7

Name	Туре	Required	Description
valid	string	True	<ul> <li>JSON string describing whether the credential is valid for use. Default value, if omitted, is "true". Defined values are:</li> <li>"true" - The credential is eligible for use.</li> <li>"false" - The credential must not be used.</li> </ul>
validFromTimestamp	string	False	JSON string containing a timestamp indicating when the credential is valid. These are used for credential rotation. Defined values are: • Conforms to the ISO- 8601 Date Time Schema
validUntilTimestamp	string	False	JSON string containing a timestamp indicating when the credential is no longer valid. These are used for credential rotation. Defined values are: • Conforms to the ISO- 8601 Date Time Schema
			<ul> <li>The password.</li> <li>The password cleartext must conform to the account's password policy.</li> <li>The password is stored as a hash.</li> <li>A "change" string must exist within the keyStore with a value containing a base64-encoded string "true" or "false".</li> <li>A credential of type passwordHash can</li> </ul>
8			only be deleted if the user ID indicated by the name does not

Name	Туре	Required	Description
metadata	type_astra_metadata_upd ate	-	Client and service- specified metadata associated with the resource. Defined values are: • Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels,
			creationTimestamp and createdBy, will be preserved without modification.
Example response			must exist within the

#### Example response

```
{
    "type": "application/astra-credential",
    "version": "1.1",
    "id": "58e26f6a-a631-5122-8e0e-7afe306675c0",
    "name": "myCert",
    "valid": "true",
    "wetadata": {
        "labels": [],
        "creationTimestamp": "2022-10-06T20:58:16.3056622",
        "modificationTimestamp": "2022-10-06T20:58:16.3056622",
        "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
    }
}
```

### Response

keyStore, with a value containing a base64encoded PEM

keyStore with a value

Status: 401, Unauthorized

			encoded private key.
Name	Туре	Required	Description
type	string	True	
title	string	True	
			keyStore, with a value
			containing a base64-

encoded PEM private

Name	Туре	Required	Description
detail	string	True	
status	string	True	
correlationID	string	False	

#### Example response

• Extended validation is

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

## Response

with a value containing a base64encoded S3 access

Status: 400, Bad request

Name	Туре	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	
invalidFields	array[invalidFields]	False	List of invalid request body fields

#### Example response

```
{
   "type": "https://astra.netapp.io/problems/5",
   "title": "Invalid query parameters",
   "detail": "The supplied query parameters are invalid.",
   "status": "400"
}
```

```
Status: 409, Conflict
```

Name	Туре	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	
invalidFields	array[invalidFields]	False	List of invalid request body fields

#### Example response

```
{
    "type": "https://astra.netapp.io/problems/10",
    "title": "JSON resource conflict",
    "detail": "The request body JSON contains a field that conflicts with
an idempotent value.",
    "status": "409"
}
```

## Response

Status: 403, Forbidden

Name	Туре	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

```
{
   "type": "https://astra.netapp.io/problems/11",
   "title": "Operation not permitted",
   "detail": "The requested operation isn't permitted.",
   "status": "403"
}
```

## Error

Status: 404, Not found

Name	Туре	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

Example error response

```
{
    "type": "https://astra.netapp.io/problems/2",
    "title": "Collection not found",
    "detail": "The collection specified in the request URI wasn't
found.",
    "status": "404"
}
```

## Definitions

#### See Definitions

#### keyStore

JSON object containing JSON strings. Each string in the keyStore represents part of the credential. The name of each string represents the credential part, and the corresponding key-value stores the value of that part of the credential in base64 format. Defined values are:

• Conforms to the base64 Encoded Data Schema No limits are placed on the lengths of the strings.

Hash mapping strings to string

type\_astra\_label

Name	Туре	Required	Description
name	string	True	
value	string	True	

type\_astra\_metadata\_update

Client and service-specified metadata associated with the resource. Defined values are:

• Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.

Name	Туре	Required	Description
labels	array[type_astra_label]	False	
creationTimestamp	string	False	
modificationTimestamp	string	False	
createdBy	string	False	
modifiedBy	string	False	

invalidParams

Name	Туре	Required	Description
name	string	True	Name of the invalid query parameter
reason	string	True	Reason why the query parameter is invalid

invalidFields

Name	Туре	Required	Description
name	string	True	Name of the invalid request body field
reason	string	True	Reason why the request body field is invalid

## List all credentials

GET /accounts/{account\_id}/core/v1/credentials

Returns a JSON array of all matching resources in the collection. If individual fields are specified in the request, the items JSON array will contain the fields requested for each matching resource in the order specified.

## **Parameters**

Name	Туре	In	Required	Description
account_id	string	path	True	ID of the containing account resource • example: {{.Account}}
continue		query	False	Indicates the token to resume listing from. URL examples: "continue= <continue token="" from="" collection="" metadata=""&gt;"inue&gt; OpenAPI examples: "<continue <br="" token="">from="" collection="" metadata=""&gt;"inue&gt;t;</continue></continue 

Name	Туре	In	Required	Description
filter	string	query	False	Indicates which fields should be matched in order to return a resource when listing a collection. Supported operators are: • eq - Equality • It/gt - Less than/Greater than • Ite/gte - Less than or equals to/Greater than or equals to URL example: "filter=field%20eq%2 0%27value%27" OpenAPI examples: "field eq 'value'"
include	string	query	False	Indicates which fields should be returned when listing a collection. URL examples: "include=id", "include=id,name" OpenAPI examples: "id" • example: id,name

Name	Туре	In	Required	Description
limit	string	query	False	Indicates the maximum number of resources to return when listing a collection. URL examples: "limit=2" OpenAPI examples: "2"
orderBy	string	query	False	Indicates the sort order of resource when listing a collection. URL examples: "orderBy=name", "orderBy=name%20 desc" OpenAPI examples: "name desc"

Status: 200, Returns a JSON array of all matching resources in the collection. If individual fields are specified in the request, the items JSON array will contain the fields requested for each matching resource in the order specified.

Name	Туре	Required	Description
items	array[Any of: credential_1.1_get_respo nse_body, array[]]	True	
metadata	type_astra_metadata_list	True	

```
Example response
```

```
{
 "type": "application/astra-credentials",
 "version": "1.1",
 "items": [
    [
      "f97f3441-075e-4f9b-9d1e-47f9f62a3fc4",
     "myCert"
   ],
    ſ
     "5e365b4d-034f-4f13-95ef-d3a7fbc0df3d",
     "kubeconfig"
   ],
    ſ
      "11ceb350-1999-4b79-80a6-46a980a27856",
     "password"
   1
 ],
 "metadata": {
   "labels": [],
   "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
   "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
 }
}
```

Status: 401, Unauthorized

Name	Туре	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

Status: 400, Bad request

Name	Туре	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	
invalidParams	array[invalidParams]	False	List of invalid query parameters

#### Example response

```
{
   "type": "https://astra.netapp.io/problems/5",
   "title": "Invalid query parameters",
   "detail": "The supplied query parameters are invalid.",
   "status": "400"
}
```

### Error

Status: 404, Not found

Name	Туре	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

#### Example error response

```
{
   "type": "https://astra.netapp.io/problems/2",
   "title": "Collection not found",
   "detail": "The collection specified in the request URI wasn't
found.",
   "status": "404"
}
```

## Definitions

#### See Definitions

type\_astra\_label

Name	Туре	Required	Description
name	string	True	
value	string	True	

type\_astra\_metadata\_update

Client and service-specified metadata associated with the resource. Defined values are:

• Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.

Name	Туре	Required	Description
labels	array[type_astra_label]	False	
creationTimestamp	string	False	
modificationTimestamp	string	False	
createdBy	string	False	
modifiedBy	string	False	

#### credential\_1.1\_get\_response\_body

Name	Туре	Required	Description
type	string	True	Media type of the resource. Defined values are: • "application/astra- credential"
version	string	True	Version of the resource. Defined values are: • "1.0" • "1.1"
id	string	True	Globally unique identifier of the resource. Defined values are: • Conforms to the UUIDv4 Schema

Name	Туре	Required	Description
name	string	True	JSON string containing a user-specified name. When a credential is created for a user, the name will be set to the UUID of that user. Defined values are:
			<ul><li>Minimum length: 1</li><li>Maximum length: 127</li></ul>

Name	Туре	Required	Description
кеуТуре	string	False	JSON string containing an optional user- specified data validation type descriptor for the contents of the keyStore Extended update constraints:
			<ul> <li>If a keyType does not exist in the resource and is not specified in an update, the keyType must not continue to exist in the updated resource.</li> </ul>
			<ul> <li>If a keyType does not exist in the resource and is specified in an update, the keyType must be added to th resource and validation must be performed. If the validation fails, the update will fail.</li> </ul>
			<ul> <li>If a keyType exists i the resource and is not specified in an update, the keyType must be preserved.</li> </ul>
		<ul> <li>If a keyType exists in the resource and is specified in an update, and the keyType specified matches the existing keyType, the keyType must be preserved.</li> </ul>	
			<ul> <li>If a keyType exists in the resource and is specified in an update, and the keyType specified is different from the existing keyType, the update will fail. Defined values are:</li> </ul>
			"generic" - The credential is a
			generic collection o data. This is

Name	Туре	Required	Description
valid	string	True	<ul> <li>JSON string describing whether the credential is valid for use. Default value, if omitted, is "true". Defined values are:</li> <li>"true" - The credential is eligible for use.</li> <li>"false" - The credential must not be used.</li> </ul>
validFromTimestamp	string	False	JSON string containing a timestamp indicating when the credential is valid. These are used for credential rotation. Defined values are: • Conforms to the ISO-8601 Date Time Schema
validUntilTimestamp	string	False	JSON string containing a timestamp indicating when the credential is no longer valid. These are used for credential rotation. Defined values are: • Conforms to the ISO-8601 Date Time Schema
			must exist within the keyStore with a value containing a base64-encoded cleartext password: • The password cleartext must conform to the account's password policy.
			<ul> <li>The password is stored as a hash.</li> <li>A "change" string must exist within the</li> </ul>

Name	Туре	Required	Description
metadata	type_astra_metadata_up date	True	Client and service- specified metadata associated with the resource. Defined values are: • Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.

type\_astra\_metadata\_list

			<ul> <li>"kubeconfig" - The</li> </ul>
Name	Туре	Required	Description
continue	string	False	
count	number	False	
labels	array[type_astra_label]	False	
creationTimestamp	string	False	
modificationTimestamp	string	False	
createdBy	string	False	
modifiedBy	string	False	
			mo.

#### invalidParams

 The kubeconfig file must only describe a

arbitrary string.

			must only describe a
Name	Туре	Required	Description
name	string	True	Name of the invalid query parameter
reason	string	True	Reason why the query parameter is invalid
			<ul> <li>Extended validation</li> </ul>
			is performed as follows:
			<ul> <li>A "certificate" string must exist within the keyStore, with a</li> </ul>
			value containing a base64-encoded

## **Retrieve a credential**

GET /accounts/{account\_id}/core/v1/credentials/{credential\_id}

Returns the stored Credential API resource in the JSON response body.

## Parameters

Name	Туре	In	Required	Description
account_id	string	path	True	ID of the containing account resource • example: {{.Account}}
credential_id	string	path	True	ID of the credential collection to list

## Response

Status: 200, Returns the stored Credential API resource in the JSON response body.

Name	Туре	Required	Description
type	string	True	Media type of the resource. Defined values are: • "application/astra- credential"
version	string	True	Version of the resource. Defined values are: • "1.0" • "1.1"
id	string	True	Globally unique identifier of the resource. Defined values are: • Conforms to the UUIDv4 Schema

Name	Туре	Required	Description
name	string	True	JSON string containing a user-specified name. When a credential is created for a user, the name will be set to the UUID of that user. Defined values are: • Minimum length: 1 • Maximum length: 127
			value containing a base64-encoded PEM private key.
			<ul> <li>"s3" - Indicates the credentials are for Simple Storage Service (S3) access.</li> </ul>
			<ul> <li>Extended validation is performed as follows:</li> </ul>
			<ul> <li>An "accessKey" string must exist within the keyStore with a value containing a base64- encoded S3 access key.</li> </ul>
			• An "accessSecret" string must exist within the keyStore with a value containing a base64- encoded S3 access secret.

Name	Туре	Required	Description
keyType	Iype           string	Required         False	<ul> <li>JSON string containing an optional user-specified data validation type descriptor for the contents of the keyStore. Extended update constraints:</li> <li>If a keyType does not exist in the resource and is not specified in an update, the keyType must not continue to exist in the updated resource.</li> <li>If a keyType does not exist in the resource and is specified in an update, the keyType must be added to the resource and validation must be performed. If the validation fails, the update will fail.</li> <li>If a keyType exists in the resource and is not specified in an update, the keyType must be preserved.</li> <li>If a keyType exists in the resource and is not specified in an update, the keyType must be preserved.</li> <li>If a keyType exists in the resource and is specified in an update, and the keyType specified matches the existing keyType, the keyType must be preserved.</li> <li>If a keyType exists in the resource and is specified in an update, and the keyType specified matches the existing keyType specified is different from the existing keyType, the keyType must be preserved.</li> <li>If a keyType specified is different from the existing keyType, the update will fail. Defined values are:</li> <li>"generic" - The credential is a generic collection of data. This is equivalent to not</li> </ul>
			including a keyType. Extended validation is

Name	Туре	Required	Description
valid	string	True	<ul> <li>JSON string describing whether the credential is valid for use. Default value, if omitted, is "true". Defined values are:</li> <li>"true" - The credential is eligible for use.</li> <li>"false" - The credential must not be used.</li> </ul>
validFromTimestamp	string	False	JSON string containing a timestamp indicating when the credential is valid. These are used for credential rotation. Defined values are: • Conforms to the ISO- 8601 Date Time Schema
validUntilTimestamp	string	False	JSON string containing a timestamp indicating when the credential is no longer valid. These are used for credential rotation. Defined values are: • Conforms to the ISO- 8601 Date Time Schema
			<ul> <li>The password.</li> <li>The password cleartext must conform to the account's password policy.</li> <li>The password is stored as a hash.</li> <li>A "change" string must exist within the keyStore with a value containing a base64-encoded string "true" or "false".</li> <li>A credential of type passwordHash can only be deleted if the</li> </ul>
28			user ID indicated by the name does not

Name	Туре	Required	Description
metadata	type_astra_metadata_upd ate	-	Client and service- specified metadata associated with the resource. Defined values are: • Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels,
			creationTimestamp and createdBy, will be preserved without modification.
Example response			must exist within the

#### Example response

```
{
    "type": "application/astra-credential",
    "version": "1.1",
    "id": "58e26f6a-a631-5122-8e0e-7afe306675c0",
    "name": "myCert",
    "valid": "true",
    "wetadata": {
        "labels": [],
        "creationTimestamp": "2022-10-06T20:58:16.3056622",
        "modificationTimestamp": "2022-10-06T20:58:16.3056622",
        "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
    }
}
```

### Response

keyStore, with a value containing a base64encoded PEM

encoded PEM private

keyStore with a value

Status: 401, Unauthorized

			encoded private key.
Name	Туре	Required	Description
type	string	True	
title	string	True	
			keyStore, with a value
			containing a base64- <sub>29</sub>

Name	Туре	Required	Description
detail	string	True	
status	string	True	
correlationID	string	False	

#### Example response

• Extended validation is

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

## Response

with a value containing a base64encoded S3 access

Status: 400, Bad request

Name	Туре	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	
invalidParams	array[invalidParams]	False	List of invalid query parameters

#### Example response

```
{
   "type": "https://astra.netapp.io/problems/5",
   "title": "Invalid query parameters",
   "detail": "The supplied query parameters are invalid.",
   "status": "400"
}
```

```
Status: 403, Forbidden
```

Name	Туре	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

#### Example response

```
{
   "type": "https://astra.netapp.io/problems/11",
   "title": "Operation not permitted",
   "detail": "The requested operation isn't permitted.",
   "status": "403"
}
```

### Error

```
Status: 404, Not found
```

Name	Туре	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

```
{
   "type": "https://astra.netapp.io/problems/2",
   "title": "Collection not found",
   "detail": "The collection specified in the request URI wasn't
found.",
   "status": "404"
}
```

## Definitions

#### See Definitions

type\_astra\_label

Name	Туре	Required	Description
name	string	True	
value	string	True	

type\_astra\_metadata\_update

Client and service-specified metadata associated with the resource. Defined values are:

• Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.

Name	Туре	Required	Description
labels	array[type_astra_label]	False	
creationTimestamp	string	False	
modificationTimestamp	string	False	
createdBy	string	False	
modifiedBy	string	False	

invalidParams

Name	Туре	Required	Description
name	string	True	Name of the invalid query parameter
reason	string	True	Reason why the query parameter is invalid

## Modify a credential

PUT /accounts/{account id}/core/v1/credentials/{credential id}

Replaces the entire stored resource with the supplied JSON request body while preserving the key values that are not user-modifiable.

## **Parameters**

Name	Туре	In	Required	Description
account_id	string	path	True	ID of the containing account resource • example: {{.Account}}
credential_id	string	path	True	ID of the credential collection to list

## **Request Body**

Replaces the entire stored resource with the supplied JSON request body while preserving the key values that are not user-modifiable.

Name	Туре	Required	Description
type	string	True	Media type of the resource. Defined values are: • "application/astra- credential"
version	string	True	Version of the resource. Defined values are: • "1.0" • "1.1"
id	string	False	Globally unique identifier of the resource. Defined values are: • Conforms to the UUIDv4 Schema
name	string	True	JSON string containing a user-specified name. When a credential is created for a user, the name will be set to the UUID of that user. Defined values are: • Minimum length: 1 • Maximum length: 127

Name	Туре	Required	Description
keyStore	keyStore	True	JSON object containing JSON strings. Each string in the keyStore represents part of the credential. The name of each string represents the credential part, and the corresponding key-value stores the value of that part of the credential in base64 format. Defined values are: • Conforms to the base64 Encoded Data Schema No limits are placed on the lengths of the strings.
valid	string	False	<ul> <li>JSON string describing whether the credential is valid for use. Default value, if omitted, is "true". Defined values are:</li> <li>"true" - The credential is eligible for use.</li> <li>"false" - The credential must not be used.</li> </ul>
validFromTimestamp	string	False	JSON string containing a timestamp indicating when the credential is valid. These are used for credential rotation. Defined values are: • Conforms to the ISO- 8601 Date Time Schema
36			<ul> <li>stored as a hash.</li> <li>A "change" string must exist within the keyStore with a value containing a base64- encoded string "true" or "false".</li> <li>A credential of type passwordHash can only be deleted if the user ID indicated by</li> </ul>

the name does not

Name	Туре	Required	Description
validUntilTimestamp	string	False	JSON string containing a timestamp indicating when the credential is no longer valid. These are used for credential rotation. Defined values are: • Conforms to the ISO- 8601 Date Time Schema
metadata	type_astra_metadata_upd ate	False	Client and service- specified metadata associated with the resource. Defined values are: • Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.

#### Example request

"certificate" - The

credential is a DFM-

```
{
   "type": "application/astra-credential",
   "version": "1.1",
   "name": "oldCert",
   "keyStore": {
      "privKey": "SGkh",
      "pubKey": "VGhpcyBpcyBhbiBleGFtcGxlLg=="
   }
}
```

- Extended validation is performed as follows:
- A "privkey" string must exist within the keyStore, with a value containing a base64-<sub>37</sub> encoded PEM private

# Response

Status: 204, Indicates if the credential resource was updated.

## Response

```
Status: 403, Forbidden
```

Name	Туре	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

#### Example response

```
{
    "type": "https://astra.netapp.io/problems/11",
    "title": "Operation not permitted",
    "detail": "The requested operation isn't permitted.",
    "status": "403"
}
```

# Response

```
Status: 406, Not acceptable
```

Name	Туре	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

{
 "type": "https://astra.netapp.io/problems/32",
 "title": "Unsupported content type",
 "detail": "The response can't be returned in the requested format.",
 "status": "406"
}

# Response

keyStore with a value containing a base64-encoded S3 access

Status: 500, Internal server error

Sunny musi Ghisi

Name	Туре	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

#### Example response

```
{
    "type": "https://astra.netapp.io/problems/34",
    "title": "Internal server error",
    "detail": "The server was unable to process this request.",
    "status": "500"
}
```

# Response

Status: 412, Precondition failed

Name	Туре	Required	Description
type	string	True	
title	string	True	
detail	string	True	

Name	Туре	Required	Description
status	string	True	
correlationID	string	False	

#### Example response

```
{
   "type": "https://astra.netapp.io/problems/38",
   "title": "Precondition not met",
   "detail": "The conditional headers aren't satisfied.",
   "status": "412"
}
```

# Response

```
Status: 409, Conflict
```

Name	Туре	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

#### Example response

```
{
    "type": "https://astra.netapp.io/problems/39",
    "title": "Credential exists",
    "detail": "A credential of this type already exists.",
    "status": "409"
}
```

# Response

Status: 502, Bad gateway

Name	Туре	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

#### Example response

```
{
   "type": "https://astra.netapp.io/problems/40",
   "title": "Communication failed",
   "detail": "Communication wasn't made with downstream services.",
   "status": "502"
}
```

# Response

```
Status: 503, Service unavailable
```

Name	Туре	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

#### Example response

```
{
   "type": "https://astra.netapp.io/problems/41",
   "title": "Service not ready",
   "detail": "Currently, the service can't respond to this request.",
   "status": "503"
}
```

```
Error
```

Status: 400, Bad request

Name	Туре	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	
invalidParams	array[invalidParams]	False	List of invalid query parameters

#### Example error response

```
{
   "type": "https://astra.netapp.io/problems/7",
   "title": "Invalid JSON payload",
   "detail": "The request body is not valid JSON.",
   "status": "400"
}
```

# Definitions

#### See Definitions

#### keyStore

JSON object containing JSON strings. Each string in the keyStore represents part of the credential. The name of each string represents the credential part, and the corresponding key-value stores the value of that part of the credential in base64 format. Defined values are:

• Conforms to the base64 Encoded Data Schema No limits are placed on the lengths of the strings.

Hash mapping strings to string

type\_astra\_label

Name	Туре	Required	Description
name	string	True	
value	string	True	

type\_astra\_metadata\_update

Client and service-specified metadata associated with the resource. Defined values are:

• Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.

Name	Туре	Required	Description
labels	array[type_astra_label]	False	
creationTimestamp	string	False	
modificationTimestamp	string	False	
createdBy	string	False	
modifiedBy	string	False	

invalidFields

Name	Туре	Required	Description
name	string	True	Name of the invalid request body field
reason	string	True	Reason why the request body field is invalid

invalidParams

Name	Туре	Required	Description
name	string	True	Name of the invalid query parameter
reason	string	True	Reason why the query parameter is invalid

# **Delete a credential**

DELETE /accounts/{account\_id}/core/v1/credentials/{credential\_id}

Removes the specified Credential API resource.

#### Side Effects

• If the credential being deleted is relied on by another resource or API, the deletion might cause unintended side effects within other APIs or the system as a whole.

## **Parameters**

Name	Туре	In	Required	Description
account_id	string	path	True	ID of the containing account resource • example: {{.Account}}
credential_id	string	path	True	ID of the credential collection to list

### Response

```
Status: 204, Indicates if the credential resource was deleted.
```

## Response

Status: 401, Unauthorized

Name	Туре	Required	Description
type	string	True	
title	string	True	

Name	Туре	Required	Description
detail	string	True	
status	string	True	
correlationID	string	False	

#### Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

## Response

```
Status: 400, Bad request
```

Name	Туре	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	
invalidParams	array[invalidParams]	False	List of invalid query parameters

#### Example response

```
{
   "type": "https://astra.netapp.io/problems/5",
   "title": "Invalid query parameters",
   "detail": "The supplied query parameters are invalid.",
   "status": "400"
}
```

# Response

```
Status: 403, Forbidden
```

Name	Туре	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

#### Example response

```
{
   "type": "https://astra.netapp.io/problems/11",
   "title": "Operation not permitted",
   "detail": "The requested operation isn't permitted.",
   "status": "403"
}
```

# Error

```
Status: 404, Not found
```

Name	Туре	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

```
{
   "type": "https://astra.netapp.io/problems/1",
   "title": "Resource not found",
   "detail": "The resource specified in the request URI wasn't found.",
   "status": "404"
}
```

# Definitions

#### **See Definitions**

invalidParams

Name	Туре	Required	Description
name	string	True	Name of the invalid query parameter
reason	string	True	Reason why the query parameter is invalid

#### **Copyright information**

Copyright © 2024 NetApp, Inc. All Rights Reserved. Printed in the U.S. No part of this document covered by copyright may be reproduced in any form or by any means—graphic, electronic, or mechanical, including photocopying, recording, taping, or storage in an electronic retrieval system—without prior written permission of the copyright owner.

Software derived from copyrighted NetApp material is subject to the following license and disclaimer:

THIS SOFTWARE IS PROVIDED BY NETAPP "AS IS" AND WITHOUT ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, WHICH ARE HEREBY DISCLAIMED. IN NO EVENT SHALL NETAPP BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

NetApp reserves the right to change any products described herein at any time, and without notice. NetApp assumes no responsibility or liability arising from the use of products described herein, except as expressly agreed to in writing by NetApp. The use or purchase of this product does not convey a license under any patent rights, trademark rights, or any other intellectual property rights of NetApp.

The product described in this manual may be protected by one or more U.S. patents, foreign patents, or pending applications.

LIMITED RIGHTS LEGEND: Use, duplication, or disclosure by the government is subject to restrictions as set forth in subparagraph (b)(3) of the Rights in Technical Data -Noncommercial Items at DFARS 252.227-7013 (FEB 2014) and FAR 52.227-19 (DEC 2007).

Data contained herein pertains to a commercial product and/or commercial service (as defined in FAR 2.101) and is proprietary to NetApp, Inc. All NetApp technical data and computer software provided under this Agreement is commercial in nature and developed solely at private expense. The U.S. Government has a non-exclusive, non-transferrable, nonsublicensable, worldwide, limited irrevocable license to use the Data only in connection with and in support of the U.S. Government contract under which the Data was delivered. Except as provided herein, the Data may not be used, disclosed, reproduced, modified, performed, or displayed without the prior written approval of NetApp, Inc. United States Government license rights for the Department of Defense are limited to those rights identified in DFARS clause 252.227-7015(b) (FEB 2014).

#### **Trademark information**

NETAPP, the NETAPP logo, and the marks listed at http://www.netapp.com/TM are trademarks of NetApp, Inc. Other company and product names may be trademarks of their respective owners.