NetApp

Certificate

Astra Automation

NetApp
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Certificate

Certificate overview

The Certificate API represents admin-trusted certificates that are used for establishing outgoing connections.

Create a new certificate

POST `/accounts/{account_id}/core/v1/certificates`

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

Parameters

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

Request Body

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

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

Name	Type	Required	Description
certUse	string	False	JSON string indicating the use of the certificate. If not specified, defaults to "rootCA". Defined values are: • "rootCA" - The certificate is a certificate authority (CA) certificate used to trust any certificate signed by that CA. • "intermediateCA" - The certificate is an intermediate CA certificate issued by a root CA.
cert	string	True	JSON string containing a base64 encoded PKCS-11 formatted certificate (PEM). Defined values are: • Conforms to the base64 Encoded Data Schema

Name	Type	Required	Description
isSelfSigned	string	False	JSON string indicating whether the certificate is self-signed. If not provided on create, the value defaults to "false". On update: • If the value is provided, that value will be used. • If the value is not provided and the "cert" field is included in the update, the value will be set to "false". • If the value is not provided and the "cert" field is not included in the update, the existing value will be retained. Defined values are: • "true" - The certificate is self-signed. • "false" - The certificate is not self-signed.
trustStateDesired	string	False	JSON string containing a value indicating whether the certificate is trusted. If not specified on create, the default value is "trusted". Defined values are: • "untrusted" - The certificate is not trusted. • "trusted" - The certificate is marked as trusted.

Name	Type	Required	Description
metadata	type_astra_metadata_update	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

```
{
  "type": "application/astra-certificate",
  "version": "1.1",
  "certUse": "rootCA",
  "cert":
"LS0tLS1CRUdJTiBDRVJUSUZJQ0FURS0tLS0tCk1JSUZyVENDQTVZ0F3MVJHbnFGbUJJSSW
RyV1kwPQotLS0tLUVORCBDRVJUSUZJQ0FURS0tLS0t"
}
```

Response

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

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: • "application/astra-certificate"

Name	Type	Required	Description
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
certUse	string	True	JSON string indicating the use of the certificate. If not specified, defaults to "rootCA". Defined values are: • "rootCA" - The certificate is a certificate authority (CA) certificate used to trust any certificate signed by that CA. • "intermediateCA" - The certificate is an intermediate CA certificate issued by a root CA.
cert	string	True	JSON string containing a base64 encoded PKCS-11 formatted certificate (PEM). Defined values are: • Conforms to the base64 Encoded Data Schema
cn	string	True	JSON string containing a common name extracted from the certificate. Defined values are: • Minimum length: 1 • Maximum length: 511

Name	Type	Required	Description
expiryTimestamp	string	True	JSON string containing a timestamp indicating when the certificate expires. Defined values are: • Conforms to the ISO-8601 Date Time Schema
isSelfSigned	string	True	JSON string indicating whether the certificate is self-signed. If not provided on create, the value defaults to "false". On update: • If the value is provided, that value will be used. • If the value is not provided and the "cert" field is included in the update, the value will be set to "false". • If the value is not provided and the "cert" field is not included in the update, the existing value will be retained. Defined values are: • "true" - The certificate is self-signed. • "false" - The certificate is not self-signed.

Name	Type	Required	Description
trustState	string	True	JSON string containing one of a set of enumerated values indicating whether the certificate is trusted. Defined values are: • "untrusted" - The certificate is not trusted. • "trusted" - The certificate is marked as trusted. • "expired" - The certificate is expired, so is neither trusted or not trusted.
trustStateTransitions	array[type_astra_stateTransition]	True	JSON array of JSON objects, each representing the set of permitted state transitions from a given defined state. Each JSON object contains the fields "from" and "to", where the "from" value is the name of a state, and the "to" value is an array of permitted destination states.
trustStateDesired	string	False	JSON string containing a value indicating whether the certificate is trusted. If not specified on create, the default value is "trusted". Defined values are: • "untrusted" - The certificate is not trusted. • "trusted" - The certificate is marked as trusted.

Name	Type	Required	Description
trustStateDetails	array[type_astra_stateDetail]	True	JSON array of JSON objects that lists additional details about the trust state of the certificate. If no details are available, this array will be empty. • Minimum Items: 0
metadata	type_astra_metadata_update	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.

Example response

```
{
  "type": "application/astra-certificate",
  "version": "1.1",
  "id": "a26cbed4-2183-58ce-aa19-e37ca8b0531a",
  "certUse": "rootCA",
  "cert":
"LS0tLS1CRUdJTiBDRVJUSUZJQ0FURS0tLS0tCk1JSUZyVENDQTVZ0F3MVJHbnFGbUJSSW
RyV1kwPQotLS0tLUVORCBDRVJUSUZJQ0FURS0tLS0t",
  "cn": "vcenter.example.com",
  "isSelfSigned": "false",
  "expiryTimestamp": "2022-03-23T16:48:38.5233461Z",
  "trustState": "trusted",
  "trustStateTransitions": [
    {
      "from": "untrusted",
      "to": [
        "trusted"
      ]
    },
    {
      "from": "trusted",
      "to": [
        "untrusted"
      ]
    }
  ],
  "trustStateDesired": "trusted",
  "trustStateDetails": [],
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

Response

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

Name	Type	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/7",
  "title": "Invalid JSON payload",
  "detail": "The request body is not valid JSON.",
  "status": "400"
}
```

Response

```
Status: 403, Forbidden
```

Name	Type	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: 500, Internal server error
```

Name	Type	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: 503, Service unavailable
```

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

Name	Type	Required	Description
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: 401, Unauthorized
```

Name	Type	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/3",
   "title": "Missing bearer token",
   "detail": "The request is missing the required bearer token.",
   "status": "401"
}
```

Definitions

See Definitions

type_astra_label

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

type_astra_stateTransition

Name	Type	Required	Description
from	string	True	
to	array[string]	True	

additionalDetails

type_astra_stateDetail

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
additionalDetails	additionalDetails	False	

invalidFields

Name	Type	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 certificates

GET `/accounts/{account_id}/core/v1/certificates`

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	Type	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="">"</continue> OpenAPI examples: "<continue token="" from="" collection="" metadata="">"</continue></continue>

Name	Type	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 • lt/gt - Less than/Greater than • lte/gte - Less than or equals to/Greater than or equals to URL example: "filter=field%20eq%20%27value%27" OpenAPI examples: "field eq 'value'" • example: certUse%20eq%20'rootCA'
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,cn,isSelfSigned

Name	Type	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"

Response

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	Type	Required	Description
items	array[Any of: certificate_1.1_get_response_body, array[]]	True	
metadata	type_astra_metadata_list	True	

Example response

```json
{
  "type": "application/astra-certificates",
  "version": "1.1",
  "items": [
    [
      "f97f3441-075e-4f9b-9d1e-47f9f62a3fc4",
      "prod.region-1.example.com",
      "true"
    ],
    [
      "5e365b4d-034f-4f13-95ef-d3a7fbc0df3d",
      "prod.region-2.example.com",
      "false"
    ],
    [
      "11ceb350-1999-4b79-80a6-46a980a27856",
      "prod.example.com",
      "false"
    ]
  ],
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

Response

```
Status: 401, Unauthorized
```

Name	Type	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/3",
   "title": "Missing bearer token",
   "detail": "The request is missing the required bearer token.",
   "status": "401"
}
```

Response

Status: 400, Bad request

Name	Type	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: 503, Service unavailable

Name	Type	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"
}
```

Response

```
Status: 409, Conflict
```

Name	Type	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/164",
   "title": "Requested resource in unexpected state",
   "detail": "The requested resource can't be returned because it isn't
   in the expected state. Wait for the conflict to be resolved and retry
   the request.",
   "status": "409"
}
```

Error

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

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

Example error response

```json
{
  "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_stateTransition

Name	Type	Required	Description
from	string	True	
to	array[string]	True	

additionalDetails

type_astra_stateDetail

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
additionalDetails	additionalDetails	False	

type_astra_label

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

certificate_1.1_get_response_body

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: • "application/astra-certificate"
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
certUse	string	True	JSON string indicating the use of the certificate. If not specified, defaults to "rootCA". Defined values are: • "rootCA" - The certificate is a certificate authority (CA) certificate used to trust any certificate signed by that CA. • "intermediateCA" - The certificate is an intermediate CA certificate issued by a root CA.
cert	string	True	JSON string containing a base64 encoded PKCS-11 formatted certificate (PEM). Defined values are: • Conforms to the base64 Encoded Data Schema

Name	Type	Required	Description
cn	string	True	JSON string containing a common name extracted from the certificate. Defined values are: • Minimum length: 1 • Maximum length: 511
expiryTimestamp	string	True	JSON string containing a timestamp indicating when the certificate expires. Defined values are: • Conforms to the ISO-8601 Date Time Schema

Name	Type	Required	Description
isSelfSigned	string	True	JSON string indicating whether the certificate is self-signed. If not provided on create, the value defaults to "false". On update: - If the value is provided, that value will be used. - If the value is not provided and the "cert" field is included in the update, the value will be set to "false". - If the value is not provided and the "cert" field is not included in the update, the existing value will be retained. Defined values are: "true" - The certificate is self-signed. "false" - The certificate is not self-signed.
trustState	string	True	JSON string containing one of a set of enumerated values indicating whether the certificate is trusted. Defined values are: "untrusted" - The certificate is not trusted. "trusted" - The certificate is marked as trusted. "expired" - The certificate is expired, so is neither trusted or not trusted.

Name	Type	Required	Description
trustStateTransitions	array[type_astra_stateTransition]	True	JSON array of JSON objects, each representing the set of permitted state transitions from a given defined state. Each JSON object contains the fields "from" and "to", where the "from" value is the name of a state, and the "to" value is an array of permitted destination states.
trustStateDesired	string	False	JSON string containing a value indicating whether the certificate is trusted. If not specified on create, the default value is "trusted". Defined values are: • "untrusted" - The certificate is not trusted. • "trusted" - The certificate is marked as trusted.
trustStateDetails	array[type_astra_stateDetail]	True	JSON array of JSON objects that lists additional details about the trust state of the certificate. If no details are available, this array will be empty. • Minimum Items: 0

Name	Type	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

Name	Type	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	

invalidParams

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

Retrieve a certificate

GET `/accounts/{account_id}/core/v1/certificates/{certificate_id}`

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

Parameters

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

Response

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

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: • "application/astra-certificate"
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	Type	Required	Description
certUse	string	True	JSON string indicating the use of the certificate. If not specified, defaults to "rootCA". Defined values are: • "rootCA" - The certificate is a certificate authority (CA) certificate used to trust any certificate signed by that CA. • "intermediateCA" - The certificate is an intermediate CA certificate issued by a root CA.
cert	string	True	JSON string containing a base64 encoded PKCS-11 formatted certificate (PEM). Defined values are: • Conforms to the base64 Encoded Data Schema
cn	string	True	JSON string containing a common name extracted from the certificate. Defined values are: • Minimum length: 1 • Maximum length: 511
expiryTimestamp	string	True	JSON string containing a timestamp indicating when the certificate expires. Defined values are: • Conforms to the ISO-8601 Date Time Schema

Name	Type	Required	Description
isSelfSigned	string	True	JSON string indicating whether the certificate is self-signed. If not provided on create, the value defaults to "false". On update: • If the value is provided, that value will be used. • If the value is not provided and the "cert" field is included in the update, the value will be set to "false". • If the value is not provided and the "cert" field is not included in the update, the existing value will be retained. Defined values are: • "true" - The certificate is self-signed. • "false" - The certificate is not self-signed.
trustState	string	True	JSON string containing one of a set of enumerated values indicating whether the certificate is trusted. Defined values are: • "untrusted" - The certificate is not trusted. • "trusted" - The certificate is marked as trusted. • "expired" - The certificate is expired, so is neither trusted or not trusted.

Name	Type	Required	Description
trustStateTransitions	array[type_astra_stateTransition]	True	JSON array of JSON objects, each representing the set of permitted state transitions from a given defined state. Each JSON object contains the fields "from" and "to", where the "from" value is the name of a state, and the "to" value is an array of permitted destination states.
trustStateDesired	string	False	JSON string containing a value indicating whether the certificate is trusted. If not specified on create, the default value is "trusted". Defined values are: • "untrusted" - The certificate is not trusted. • "trusted" - The certificate is marked as trusted.
trustStateDetails	array[type_astra_stateDetail]	True	JSON array of JSON objects that lists additional details about the trust state of the certificate. If no details are available, this array will be empty. • Minimum Items: 0

Name	Type	Required	Description
metadata	type_astra_metadata_upd ate	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.

Example response

```json
{
  "type": "application/astra-certificate",
  "version": "1.1",
  "id": "a26cbed4-2183-58ce-aa19-e37ca8b0531a",
  "certUse": "rootCA",
  "cert":
"LS0tLS1CRUdJTiBDRVJUSUZJQ0FURS0tLS0tCk1JSUZyVENDQTVZ0F3MVJHbnFGbUJSSW
RyV1kwPQotLS0tLUVORCBDRVJUSUZJQ0FURS0tLS0t",
  "cn": "vcenter.example.com",
  "expiryTimestamp": "2022-03-23T16:48:38.5233461Z",
  "isSelfSigned": "true",
  "trustState": "untrusted",
  "trustStateTransitions": [
    {
      "from": "untrusted",
      "to": [
        "trusted"
      ]
    },
    {
      "from": "trusted",
      "to": [
        "untrusted"
      ]
    }
  ],
  "trustStateDetails": [],
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

Response

```
Status: 401, Unauthorized
```

Name	Type	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/3",
   "title": "Missing bearer token",
   "detail": "The request is missing the required bearer token.",
   "status": "401"
}
```

Response

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

Name	Type	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	Type	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: 503, Service unavailable

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

Name	Type	Required	Description
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"
}
```

Response

```
Status: 409, Conflict
```

Name	Type	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/164",
   "title": "Requested resource in unexpected state",
   "detail": "The requested resource can't be returned because it isn't
in the expected state. Wait for the conflict to be resolved and retry
the request.",
   "status": "409"
}
```

Error

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

Name	Type	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_stateTransition

Name	Type	Required	Description
from	string	True	
to	array[string]	True	

additionalDetails

type_astra_stateDetail

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
additionalDetails	additionalDetails	False	

type_astra_label

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

invalidParams

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

Modify a certificate

PUT `/accounts/{account_id}/core/v1/certificates/{certificate_id}`

Replaces the entire stored resource with the supplied JSON request body.

Side Effects

- An updated CA certificate will be updated in the trust store.
- If an existing trusted CA certificate becomes untrusted, it will be removed from the trust store.
- If a certificate body is updated ("cert" field), the "isSelfSigned" indicator must be included to indicate the state of the new certificate. If the "isSelfSigned" indicator is not included in this case, the value will be set to "false".
- If an update does not modify the certificate body ("cert" field), the "isSelfSigned" indicator is optional and the existing value will be retained if not provided.

Parameters

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

Request Body

Replaces the entire stored resource with the supplied JSON request body.

Side Effects

- An updated CA certificate will be updated in the trust store.
- If an existing trusted CA certificate becomes untrusted, it will be removed from the trust store.
- If a certificate body is updated ("cert" field), the "isSelfSigned" indicator must be included to indicate the state of the new certificate. If the "isSelfSigned" indicator is not included in this case, the value will be set to "false".

- If an update does not modify the certificate body ("cert" field), the "isSelfSigned" indicator is optional and the existing value will be retained if not provided.

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: • "application/astra-certificate"
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
certUse	string	False	JSON string indicating the use of the certificate. If not specified, defaults to "rootCA". Defined values are: • "rootCA" - The certificate is a certificate authority (CA) certificate used to trust any certificate signed by that CA. • "intermediateCA" - The certificate is an intermediate CA certificate issued by a root CA.

Name	Type	Required	Description
cert	string	False	JSON string containing a base64 encoded PKCS-11 formatted certificate (PEM). Defined values are: • Conforms to the base64 Encoded Data Schema
cn	string	False	JSON string containing a common name extracted from the certificate. Defined values are: • Minimum length: 1 • Maximum length: 511
expiryTimestamp	string	False	JSON string containing a timestamp indicating when the certificate expires. Defined values are: • Conforms to the ISO-8601 Date Time Schema

Name	Type	Required	Description
isSelfSigned	string	False	JSON string indicating whether the certificate is self-signed. If not provided on create, the value defaults to "false". On update: • If the value is provided, that value will be used. • If the value is not provided and the "cert" field is included in the update, the value will be set to "false". • If the value is not provided and the "cert" field is not included in the update, the existing value will be retained. Defined values are: • "true" - The certificate is self-signed. • "false" - The certificate is not self-signed.
trustState	string	False	JSON string containing one of a set of enumerated values indicating whether the certificate is trusted. Defined values are: • "untrusted" - The certificate is not trusted. • "trusted" - The certificate is marked as trusted. • "expired" - The certificate is expired, so is neither trusted or not trusted.

Name	Type	Required	Description
trustStateTransitions	array[type_astra_stateTransition]	False	JSON array of JSON objects, each representing the set of permitted state transitions from a given defined state. Each JSON object contains the fields "from" and "to", where the "from" value is the name of a state, and the "to" value is an array of permitted destination states.
trustStateDesired	string	False	JSON string containing a value indicating whether the certificate is trusted. If not specified on create, the default value is "trusted". Defined values are: • "untrusted" - The certificate is not trusted. • "trusted" - The certificate is marked as trusted.
trustStateDetails	array[type_astra_stateDetail]	False	JSON array of JSON objects that lists additional details about the trust state of the certificate. If no details are available, this array will be empty. • Minimum Items: 0

Name	Type	Required	Description
metadata	type_astra_metadata_update	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

```
{
    "type": "application/astra-certificate",
    "version": "1.1",
    "trustStateDesired": "trusted"
}
```

Response

```
Status: 204, Indicates if the certificate resource was updated.
```

Response

```
Status: 401, Unauthorized
```

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	

Name	Type	Required	Description
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	Type	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"
}
```

Response

```
Status: 409, Conflict
```

Name	Type	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

```json
{
   "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	Type	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: 503, Service unavailable
```

Name	Type	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: 404, Not found
```

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

Name	Type	Required	Description
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_stateTransition

Name	Type	Required	Description
from	string	True	
to	array[string]	True	

additionalDetails

type_astra_stateDetail

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
additionalDetails	additionalDetails	False	

type_astra_label

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

invalidParams

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

invalidFields

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

Delete a certificate

DELETE `/accounts/{account_id}/core/v1/certificates/{certificate_id}`

Removes the specified Certificate API resource.

Parameters

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

Response

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

Response

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

Name	Type	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: 403, Forbidden
```

Name	Type	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/11",
    "title": "Operation not permitted",
    "detail": "The requested operation isn't permitted.",
    "status": "403"
}
```