Manage core dumps

REST API reference

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Manage core dumps

Support coredump coredumps endpoint overview

Overview

The core dump GET API retrieves all of the core dumps on the cluster or a node. The core dump DELETE API deletes a specified core dump. Some fields are only populated for core dump type "kernel". Refer to the model for further information. Fields will not be displayed if they are not populated. A core can be deleted even if the core is in the process of being saved.

Examples

1) Retrieving a list of core dumps from the cluster

The following example returns a list of core dumps on the cluster:

```
# The API:
/api/support/coredump/coredumps

# The call:
curl -X GET "https://<mgmt-ip>/api/support/coredump/coredumps" -H "accept:
application/hal+json"

# The response:
{
"records": [
  {
    "node": {
      "uuid": "227683c1-e9c7-11eb-b995-005056bbbfb3",
      "name": "node2",
      "_links": {
        "self": {
          "href": "/api/cluster/nodes/227683c1-e9c7-11eb-b995-
005056bbbfb3"
        }
      }
    },
    "type": "kernel",
    "name": "core.4136886422.2021-07-21.20_20_53.nz",
    "_links": {
      "self": {
        "href": "/api/support/coredump/coredumps/227683c1-e9c7-11eb-b995-
005056bbbfb3/core.4136886422.2021-07-21.20_20_53.nz"
      }
```

```
    }
  },
  {
    "node": {
      "uuid": "227683c1-e9c7-11eb-b995-005056bbbfb3",
      "name": "node2",
      "_links": {
        "self": {
          "href": "/api/cluster/nodes/227683c1-e9c7-11eb-b995-
005056bbbfb3"
        }
      }
    },
    "type": "application",
    "name": "mlogd.968.4136886422.2021-07-22.01_10_01.ucore.bz2",
    "_links": {
      "self": {
        "href": "/api/support/coredump/coredumps/227683c1-e9c7-11eb-b995-
005056bbbfb3/mlogd.968.4136886422.2021-07-22.01_10_01.ucore.bz2"
      }
    }
  },
  {
    "node": {
      "uuid": "d583d44e-e9c6-11eb-a270-005056bb47f9",
      "name": "node1",
      "_links": {
        "self": {
          "href": "/api/cluster/nodes/d583d44e-e9c6-11eb-a270-
005056bb47f9"
        }
      }
    },
    "type": "kernel",
    "name": "core.4136886421.2021-07-21.17_57_02.nz",
    "_links": {
      "self": {
        "href": "/api/support/coredump/coredumps/d583d44e-e9c6-11eb-a270-
005056bb47f9/core.4136886421.2021-07-21.17_57_02.nz"
      }
    }
  },
  {
    "node": {
      "uuid": "d583d44e-e9c6-11eb-a270-005056bb47f9",
      "name": "node1",
```

```
      "_links": {
        "self": {
          "href": "/api/cluster/nodes/d583d44e-e9c6-11eb-a270-
005056bb47f9"
        }
      }
    },
    "type": "application",
    "name": "mlogd.979.4136886421.2021-07-22.01_11_37.ucore.bz2",
    "_links": {
      "self": {
        "href": "/api/support/coredump/coredumps/d583d44e-e9c6-11eb-a270-
005056bb47f9/mlogd.979.4136886421.2021-07-22.01_11_37.ucore.bz2"
      }
    }
  }
],
"num_records": 4,
"_links": {
  "self": {
    "href": "/api/support/coredump/coredumps"
  }
}
}
```

2) Retrieving a specific core dump

The following example returns the requested core dump. If there is no core dump with the requested node UUID and name, an error is returned.

```
# The API:
/api/support/coredump/coredumps/{node.uuid}/{name}

# The call:
curl -X GET "https://<mgmt-ip>/api/support/coredump/coredumps/d583d44e-
e9c6-11eb-a270-005056bb47f9/core.4136886421.2021-07-21.17_57_02.nz" -H
"accept: application/hal+json"

# The response:
{
"node": {
  "uuid": "d583d44e-e9c6-11eb-a270-005056bb47f9",
  "name": "node1",
  "_links": {
    "self": {
      "href": "/api/cluster/nodes/d583d44e-e9c6-11eb-a270-005056bb47f9"
    }
  }
},
"type": "kernel",
"name": "core.4136886421.2021-07-21.17_57_02.nz",
"panic_time": "2021-07-21T13:57:02-04:00",
"size": 945111148,
"md5_data_chksum": "611a6fa50d230a1af402f3724ab320af",
"is_saved": true,
"_links": {
  "self": {
    "href": "/api/support/coredump/coredumps/d583d44e-e9c6-11eb-a270-
005056bb47f9/core.4136886421.2021-07-21.17_57_02.nz"
  }
}
}
```

3) Deleting a core dump

The following example deletes the requested core dump. If there is no core dump with the requested node UUID and name to delete, an error is returned.

```
# The API:
/api/support/coredump/coredumps/{node.uuid}/{name}

# The call:
curl -X DELETE "https://<mgmt-ip>/api/support/coredump/coredumps/d583d44e-
e9c6-11eb-a270-005056bb47f9/mlogd.979.4136886421.2021-07-
22.01_11_37.ucore.bz2" -H "accept: application/hal+json"

# The response header:
HTTP/1.1 200 OK
Date: Thu, 22 Jul 2021 01:32:24 GMT
Server: libzapid-httpd
X-Content-Type-Options: nosniff
Cache-Control: no-cache,no-store,must-revalidate
Content-Length: 3
Content-Type: application/hal+json
```

Retrieve core dumps

GET `/support/coredump/coredumps`

Introduced In: 9.10

Retrieves a collection of coredumps.

Related ONTAP commands

- `system node coredump show`

Parameters

Name	Type	In	Required	Description
panic_time	string	query	False	Filter by panic_time
type	string	query	False	Filter by type
is_partial	boolean	query	False	Filter by is_partial
name	string	query	False	Filter by name
node.name	string	query	False	Filter by node.name
node.uuid	string	query	False	Filter by node.uuid

Name	Type	In	Required	Description
size	integer	query	False	Filter by size
md5_data_checksum	string	query	False	Filter by md5_data_checksum
is_saved	boolean	query	False	Filter by is_saved
fields	array[string]	query	False	Specify the fields to return.
max_records	integer	query	False	Limit the number of records returned.
return_records	boolean	query	False	The default is true for GET calls. When set to false, only the number of records is returned. • Default value: 1
return_timeout	integer	query	False	The number of seconds to allow the call to execute before returning. When iterating over a collection, the default is 15 seconds. ONTAP returns earlier if either max records or the end of the collection is reached. • Default value: 1 • Max value: 120 • Min value: 0
order_by	array[string]	query	False	Order results by specified fields and optional [asc

Response

```
Status: 200, Ok
```

Name	Type	Description
_links	_links	
num_records	integer	Number of records
records	array[coredump]	

Example response


```
{
  "_links": {
    "next": {
      "href": "/api/resourcelink"
    },
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "num_records": 1,
  "records": [
    {
      "_links": {
        "self": {
          "href": "/api/resourcelink"
        }
      },
      "md5_data_checksum": "5118488cc5065e33a16986001b1ffa48",
      "name": "core.4136886413.2021-03-01.22_09_11.nz",
      "node": {
        "_links": {
          "self": {
            "href": "/api/resourcelink"
          }
        },
        "name": "node1",
        "uuid": "1cd8a442-86d1-11e0-ae1c-123478563412"
      },
      "panic_time": "2021-03-01 17:09:11 -0500",
      "size": 1161629804,
      "type": "kernel"
    }
  ]
}
```


Error

```
Status: Default, Error
```

Name	Type	Description
error	returned_error	

Example error


```
{
  "error": {
    "arguments": [
      {
        "code": "string",
        "message": "string"
      }
    ],
    "code": "4",
    "message": "entry doesn't exist",
    "target": "uuid"
  }
}
```


Definitions

See Definitions

href

Name	Type	Description
href	string	

_links

Name	Type	Description
next	href	
self	href	

_links

Name	Type	Description
self	href	

node

Name	Type	Description
_links	_links	
name	string	
uuid	string	

coredump

Name	Type	Description
_links	_links	
is_partial	boolean	Specifies whether or not the core is a partial core. Applicable only to kernel core dump type.
is_saved	boolean	Specifies whether or not the core file is saved.
md5_data_checksum	string	MD5 checksum of the compressed data of core. Applicable only to kernel core dump type.
name	string	Core name
node	node	

Name	Type	Description
panic_time	string	Time of panic that generated the core.
size	integer	Size of core, in bytes. Applicable only to kernel core dump type.
type	string	Core type, kernel or application

error_arguments

Name	Type	Description
code	string	Argument code
message	string	Message argument

returned_error

Name	Type	Description
arguments	array[error_arguments]	Message arguments
code	string	Error code
message	string	Error message
target	string	The target parameter that caused the error.

Delete a core dump

DELETE `/support/coredump/coredumps/{node.uuid}/{name}`

Introduced In: 9.10

Deletes a core dump.

Related ONTAP commands

- `system node coredump delete`

Parameters

Name	Type	In	Required	Description
node.uuid	string	path	True	Node UUID
name	string	path	True	Core name
return_timeout	integer	query	False	The number of seconds to allow the call to execute before returning. When doing a POST, PATCH, or DELETE operation on a single record, the default is 0 seconds. This means that if an asynchronous operation is started, the server immediately returns HTTP code 202 (Accepted) along with a link to the job. If a non-zero value is specified for POST, PATCH, or DELETE operations, ONTAP waits that length of time to see if the job completes so it can return something other than 202. • Default value: 1 • Max value: 120 • Min value: 0

Response

```
Status: 200, Ok
```

Error

```
Status: Default, Error
```

Name	Type	Description
error	returned_error	

Example error

```
{
  "error": {
    "arguments": [
      {
        "code": "string",
        "message": "string"
      }
    ],
    "code": "4",
    "message": "entry doesn't exist",
    "target": "uuid"
  }
}
```

Definitions

See Definitions

error_arguments

Name	Type	Description
code	string	Argument code
message	string	Message argument

returned_error

Name	Type	Description
arguments	array[error_arguments]	Message arguments
code	string	Error code
message	string	Error message
target	string	The target parameter that caused the error.

Retrieve a core dump

GET `/support/coredump/coredumps/{node.uuid}/{name}`

Introduced In: 9.10

Retrieves a specific core dump.

Related ONTAP commands

- `system node coredump show`

Parameters

Name	Type	In	Required	Description
node.uuid	string	path	True	Node UUID
name	string	path	True	Core name
fields	array[string]	query	False	Specify the fields to return.

Response

```
Status: 200, Ok
```

Name	Type	Description
_links	_links	
is_partial	boolean	Specifies whether or not the core is a partial core. Applicable only to kernel core dump type.
is_saved	boolean	Specifies whether or not the core file is saved.
md5_data_checksum	string	MD5 checksum of the compressed data of core. Applicable only to kernel core dump type.
name	string	Core name
node	node	
panic_time	string	Time of panic that generated the core.

Name	Type	Description
size	integer	Size of core, in bytes. Applicable only to kernel core dump type.
type	string	Core type, kernel or application

Example response


```
{
  "_links": {
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "md5_data_checksum": "5118488cc5065e33a16986001b1ffa48",
  "name": "core.4136886413.2021-03-01.22_09_11.nz",
  "node": {
    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
    },
    "name": "node1",
    "uuid": "1cd8a442-86d1-11e0-ae1c-123478563412"
  },
  "panic_time": "2021-03-01 17:09:11 -0500",
  "size": 1161629804,
  "type": "kernel"
}
```


Error

```
Status: Default, Error
```

Name	Type	Description
error	returned_error	

Example error


```
{
  "error": {
    "arguments": [
      {
        "code": "string",
        "message": "string"
      }
    ],
    "code": "4",
    "message": "entry doesn't exist",
    "target": "uuid"
  }
}
```


Definitions

See Definitions

href

Name	Type	Description
href	string	

_links

Name	Type	Description
self	href	

node

Name	Type	Description
_links	_links	
name	string	
uuid	string	

error_arguments

Name	Type	Description
code	string	Argument code
message	string	Message argument

returned_error

Name	Type	Description
arguments	array[error_arguments]	Message arguments
code	string	Error code
message	string	Error message
target	string	The target parameter that caused the error.

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