



Display MetroCluster diagnostics

ONTAP 9.8 REST API reference

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Display MetroCluster diagnostics

Cluster MetroCluster diagnostics endpoint overview

Overview

You can use this API to initiate diagnostics and fetch the results of a completed diagnostic operation on a MetroCluster configuration.

Related ONTAP Commands

- `metrocluster check run`

Retrieve diagnostic operation results for a MetroCluster configuration

GET `/cluster/metrocluster/diagnostics`

Introduced In: 9.8

Retrieves the results of a completed diagnostic operation for the MetroCluster configuration.

Parameters

Name	Type	In	Required	Description
component	string	query	False	MetroCluster diagnostic component name
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. <ul style="list-style-type: none">• Default value: 1

Name	Type	In	Required	Description
return_timeout	integer	query	False	<p>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.</p> <ul style="list-style-type: none"> • 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
components	array[metrocluster_diag_component]	

Example response

```
{
  "components": {
    "aggregates": {
      "aggregate": {
        "_links": {
          "self": {
            "href": "/api/resourcelink"
          }
        },
        "name": "aggr1",
        "uuid": "1cd8a442-86d1-11e0-ae1c-123478563412"
      },
      "check": "mirroring_status",
      "cluster": {
        "_links": {
          "self": {
            "href": "/api/resourcelink"
          }
        },
        "name": "cluster1",
        "uuid": "1cd8a442-86d1-11e0-ae1c-123478563412"
      },
      "details": "string",
      "node": {
        "_links": {
          "self": {
            "href": "/api/resourcelink"
          }
        },
        "name": "node1",
        "uuid": "1cd8a442-86d1-11e0-ae1c-123478563412"
      },
      "state": "ok"
    },
    "clusters": {
      "check": "none",
      "cluster": {
        "_links": {
          "self": {
            "href": "/api/resourcelink"
          }
        },
        "name": "cluster1",
        "uuid": "1cd8a442-86d1-11e0-ae1c-123478563412"
      }
    }
  }
}
```

```

    },
    "state": "ok",
    "timestamp": "2016-03-10T14:35:16-08:00"
  },
  "connections": {
    "cluster": {
      "_links": {
        "self": {
          "href": "/api/resourcelink"
        }
      },
      "name": "cluster1",
      "uuid": "1cd8a442-86d1-11e0-ae1c-123478563412"
    },
    "config_error_info": "string",
    "config_state": "string",
    "destination_address": "10.10.10.7",
    "dr_group": {
      "id": 0
    },
    "home_port": "string",
    "mtu_error_details": "string",
    "node": {
      "_links": {
        "self": {
          "href": "/api/resourcelink"
        }
      },
      "name": "node1",
      "uuid": "1cd8a442-86d1-11e0-ae1c-123478563412"
    },
    "partner_cluster": {
      "_links": {
        "self": {
          "href": "/api/resourcelink"
        }
      },
      "name": "cluster1",
      "uuid": "1cd8a442-86d1-11e0-ae1c-123478563412"
    },
    "partner_node": {
      "_links": {
        "self": {
          "href": "/api/resourcelink"
        }
      }
    }
  },

```

```

    "name": "node1",
    "uuid": "1cd8a442-86d1-11e0-ae1c-123478563412"
  },
  "partner_type": "self",
  "ping_error_details": "string",
  "relationship_type": "self",
  "source_address": "10.10.10.7",
  "state": "ok",
  "storage_error_details": "string"
},
"details": "string",
"lifs": {
  "check": "lif_place_on_dr_node",
  "cluster": {
    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
    },
    "name": "cluster1",
    "uuid": "1cd8a442-86d1-11e0-ae1c-123478563412"
  },
  "details": "string",
  "lif": {
    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
    },
    "ip": {
      "address": "10.10.10.7"
    },
    "name": "lif1",
    "uuid": "1cd8a442-86d1-11e0-ae1c-123478563412"
  },
  "state": "ok",
  "vserver": {
    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
    },
    "name": "svm1",
    "uuid": "02c9e252-41be-11e9-81d5-00a0986138f7"
  }
},
},

```

```

"nodes": {
  "check": "node_reachable",
  "cluster": {
    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
    },
    "name": "cluster1",
    "uuid": "1cd8a442-86d1-11e0-ae1c-123478563412"
  },
  "details": "string",
  "node": {
    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
    },
    "name": "node1",
    "uuid": "1cd8a442-86d1-11e0-ae1c-123478563412"
  },
  "state": "ok"
},
"state": "ok",
"timestamp": "2016-03-10T14:35:16-08:00",
"type": "nodes",
"volumes": {
  "check": "unmirrored_flexgroups",
  "details": "string",
  "state": "ok",
  "volume": {
    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
    },
    "name": "volume1",
    "uuid": "028baa66-41bd-11e9-81d5-00a0986138f7"
  },
  "vserver": {
    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
    },
    "name": "svml",

```



```
    "uuid": "02c9e252-41be-11e9-81d5-00a0986138f7"  
  }  
}  
}
```

Error

Status: Default

ONTAP Error Response Codes

Error Code	Description
2427132	MetroCluster is not configured on this cluster.

Definitions

See Definitions

href

Name	Type	Description
href	string	

_links

Name	Type	Description
self	href	

aggregate

Aggregate

Name	Type	Description
_links	_links	
name	string	
uuid	string	

cluster

Name	Type	Description
_links	_links	
name	string	
uuid	string	

node

Name	Type	Description
_links	_links	
name	string	
uuid	string	

metrocluster_diag_component_aggr

Name	Type	Description
aggregate	aggregate	Aggregate
check	string	Type of check run on the component.
cluster	cluster	

Name	Type	Description
details	string	Additional information or recovery steps to take.
node	node	
state	string	Status of the diagnostic operation on this component.

metrocluster_diag_component_cluster

Name	Type	Description
check	string	Type of check run on the component.
cluster	cluster	
details	string	Additional information or recovery steps to take.
state	string	Status of the diagnostic operation on this component.
timestamp	string	Time of the most recent check.

dr_group

DR group reference.

Name	Type	Description
id	integer	DR Group ID

partner_cluster

Partner Cluster information

Name	Type	Description
_links	_links	
name	string	
uuid	string	

partner_node

Partner Node information

Name	Type	Description
_links	_links	
name	string	
uuid	string	

metrocluster_diag_component_connection

Name	Type	Description
cluster	cluster	
config_error_info	string	Configuration error information.
config_state	string	Configuration state of the connection.
destination_address	string	Destination IP Address
dr_group	dr_group	DR group reference.
home_port	string	Home port
mtu_error_details	string	Additional information or recovery steps associated with mtu size errors.
node	node	
partner_cluster	partner_cluster	Partner Cluster information
partner_node	partner_node	Partner Node information
partner_type	string	Partner's assigned role in a DR group.
ping_error_details	string	Additional information or recovery steps associated with ping errors.
relationship_type	string	This node's assigned role in a DR group.
source_address	string	Source IP Address
state	string	Status of diagnostic operation on this component.

Name	Type	Description
storage_error_details	string	Additional information or recovery steps associated with storage errors.

ip

IP information

Name	Type	Description
address	string	IPv4 or IPv6 address

lif

Name	Type	Description
_links	_links	
ip	ip	IP information
name	string	The name of the interface.
uuid	string	The UUID that uniquely identifies the interface.

vserver

Name	Type	Description
_links	_links	
name	string	The name of the SVM.
uuid	string	The unique identifier of the SVM.

metrocluster_diag_component_lif

Name	Type	Description
check	string	Type of check run on the component.
cluster	cluster	
details	string	Additional information or recovery steps to take.
lif	lif	

Name	Type	Description
state	string	Status of the diagnostic operation on this component.
vserver	vserver	

metrocluster_diag_component_node

Name	Type	Description
check	string	Type of check run on the component.
cluster	cluster	
details	string	Additional information or recovery steps to take.
node	node	
state	string	Status of the diagnostic operation on this component.

volume

Name	Type	Description
_links	_links	
name	string	The name of the volume.
uuid	string	<p>Unique identifier for the volume. This corresponds to the instance-uuid that is exposed in the CLI and ONTAPI. It does not change due to a volume move.</p> <ul style="list-style-type: none"> • example: 028baa66-41bd-11e9-81d5-00a0986138f7 • Introduced in: 9.6

metrocluster_diag_component_volume

Name	Type	Description
check	string	Type of check run on the component.
details	string	Additional information or recovery steps to take.

Name	Type	Description
state	string	Status of diagnostic operation on this component.
volume	volume	
vserver	vserver	

metrocluster_diag_component

Name	Type	Description
aggregates	array[metrocluster_diag_component_aggr]	This object contains details of the aggregate checks when the state associated with the check is "warning".
clusters	array[metrocluster_diag_component_cluster]	This object contains details of the cluster checks when the state associated with the check is "warning".
connections	array[metrocluster_diag_component_connection]	This object contains details of the connections checks the state associated with the check is "warning".
details	string	Additional information or recovery steps to take.
lifs	array[metrocluster_diag_component_lif]	This object contains details of the interface checks when the state associated with the check is "warning".
nodes	array[metrocluster_diag_component_node]	This object contains details of the node checks when the state associated with the check is "warning".
state	string	Status of diagnostic operation for this component.
timestamp	string	Time of the most recent diagnostic operation for this component
type	string	MetroCluster diagnostic component name

Name	Type	Description
volumes	array[metrocluster_diag_component_volume]	This object contains details of the volume checks when the state associated with the check is "warning".

Start MetroCluster diagnostics or set up a periodic diagnostic schedule

POST /cluster/metrocluster/diagnostics

Introduced In: 9.8

Start a MetroCluster diagnostic operation or set up a schedule for the diagnostics to be run periodically.

Parameters

Name	Type	In	Required	Description
schedule	integer	query	False	Shows the minutes of every hour when a job runs. Setting this parameter schedules the periodic job to be run to perform MetroCluster diagnostic.

Name	Type	In	Required	Description
return_timeout	integer	query	False	<p>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.</p> <ul style="list-style-type: none"> • Default value: 1 • Max value: 120 • Min value: 0
return_records	boolean	query	False	<p>The default is false. If set to true, the records are returned.</p> <ul style="list-style-type: none"> • Default value:

Response

Status: 202, Accepted

Name	Type	Description
job	job_link	

Example response

```
{
  "job": {
    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
    },
    "uuid": "string"
  }
}
```

Error

Status: Default

ONTAP Error Response Codes

Error Code	Description
2427132	MetroCluster is not configured on this cluster.

Definitions

See Definitions

href

Name	Type	Description
href	string	

_links

Name	Type	Description
self	href	

job_link

Name	Type	Description
_links	_links	
uuid	string	The UUID of the asynchronous job that is triggered by a POST, PATCH, or DELETE operation.

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