Manage Active Directory domain controllers

REST API reference

NetApp
September 12, 2025

This PDF was generated from https://docs.netapp.com/us-en/ontap-restapi-9131/protocols_active-directory_svm.uuid_preferred-domain-controllers_endpoint_overview.html on September 12, 2025. Always check docs.netapp.com for the latest.

Table of Contents

Manage Active Directory domain controllers . . . 1
Protocols active-directory svm.uuid preferred-domain-controllers endpoint overview . . . 1
Overview . . . 1
Retrieving all the preferred DC configurations of an SVM . . . 1
Examples . . . 1
Creating a new preferred DC configuration . . . 3
Examples . . . 3
Deleting an existing preferred DC configuration . . . 4
Examples . . . 4
Retrieve an Active Directory preferred DC configuration for an SVM . . . 5
Related ONTAP commands . . . 5
Parameters . . . 5
Response . . . 7
Error . . . 7
Definitions . . . 8
Create an Active Directory preferred DC configuration for an SVM . . . 10
Required properties . . . 10
The following parameters are optional: . . . 10
Related ONTAP commands . . . 10
Parameters . . . 10
Request Body . . . 10
Response . . . 11
Error . . . 12
Definitions . . . 12
Delete an Active Directory preferred DC configuration for an SVM and domain . . . 13
Related ONTAP commands . . . 13
Parameters . . . 14
Response . . . 14
Error . . . 14
Definitions . . . 15
Retrieve an Active Directory preferred DC configuration for an SVM and domain . . . 16
Related ONTAP commands . . . 16
Parameters . . . 16
Response . . . 16
Error . . . 17
Definitions . . . 17

Manage Active Directory domain controllers

Protocols active-directory svm.uuid preferred-domain-controllers endpoint overview

Overview

You can use this API to display the preferred DC configuration of an SVM.

Retrieving all the preferred DC configurations of an SVM

The preferred DC GET endpoint retrieves all the configurations for a specific SVM.

Examples

Retrieving all fields for all the preferred DC configurations of an SVM

```
# The API:
GET /api/protocols/active-directory/{svm.uuid}/preferred-domain-
controllers

# The call:
curl -X GET "https://<mgmt-ip>/api/protocols/active-directory/1226670c-
abc9-11eb-8de3-0050568eb0c4/preferred-domain-controllers/?fields=*" -H
"accept: application/json"

# The response:
{
 "records": [
{
  "svm": {
    "uuid": "1226670c-abc9-11eb-8de3-0050568eb0c4",
    "name": "svm1"
  },
  "fqdn": "host1",
  "server_ip": "4.4.4.4"
},
{
  "svm": {
    "uuid": "1226670c-abc9-11eb-8de3-0050568eb0c4",
    "name": "svm1"
  },
  "fqdn": "host2",
  "server_ip": "11.11.11.11"
}
],
 "num_records": 2
}
```

Retrieving the preferred DC configuration of a specific SVM, "fqdn" and "server_ip"

```
# The API:
GET /api/protocols/active-directory/{svm.uuid}/preferred-domain-
controllers/{fqdn}/{server_ip}

# The call:
curl -X GET "https://<mgmt-ip>/api/protocols/active-directory/1226670c-
abc9-11eb-8de3-0050568eb0c4/preferred-domain-controllers/host1/4.4.4.4" -H
"accept: application/json"

# The response:
{
"svm": {
  "uuid": "1226670c-abc9-11eb-8de3-0050568eb0c4",
  "name": "svm1"
},
"fqdn": "host1",
"server_ip": "4.4.4.4"
}
```

Creating a new preferred DC configuration

The preferred DC POST endpoint creates a new configuration. Both bulk and instance POST is supported.

Examples

Creating a single preferred DC configuration

```
# The API:
POST /api/protocols/active-directory/{svm.uuid}/preferred-domain-
controllers

# The call:
curl -X POST "https://<mgmt-ip>/api/protocols/active-directory/1226670c-
abc9-11eb-8de3-0050568eb0c4/preferred-domain-
controllers?skip_config_validation=true&return_records=false" -H "accept:
application/json" -H "Content-Type: application/json" -d "{ \"fqdn\":
\"testing.com\", \"server_ip\": \"1.1.1.1\"}"
```

Deleting an existing preferred DC configuration

The preferred DC DELETE endpoint deletes an existing configuration. Both bulk and instance delete is supported.

Examples

Deleting the preferred DC configuration of a specific SVM, "fqdn" and "server_ip"

```
# The API:
DELETE /api/protocols/active-directory/{svm.uuid}/preferred-domain-
controllers/{fqdn}/{server_ip}

# The call:
curl -X DELETE "https://<mgmt-ip>/api/protocols/active-directory/1226670c-
abc9-11eb-8de3-0050568eb0c4/preferred-domain-controllers/sample/4.4.4.4"
```

Deleting the preferred DC configurations of a specific SVM and "fqdn"

```
# The API:
DELETE /api/protocols/active-directory/{svm.uuid}/preferred-domain-
controllers

# The call:
curl -X DELETE "https://<mgmt-ip>/api/protocols/active-directory/1226670c-
abc9-11eb-8de3-0050568eb0c4/preferred-domain-controllers/?fqdn=sampl"
```

Deleting all preferred DC configurations of a specific SVM

```
# The API:
DELETE /api/protocols/active-directory/{svm.uuid}/preferred-domain-
controllers

# The call:
curl -X DELETE "https://<mgmt-ip>/api/protocols/active-directory/1226670c-
abc9-11eb-8de3-0050568eb0c4/preferred-domain-controllers/?fqdn=*"
```

Deleting the preferred DC configurations of a specific SVM, "fqdn" and set of "server_ips"

```
# The API:
DELETE /api/protocols/active-directory/{svm.uuid}/preferred-domain-
controllers

# The call:
curl -X DELETE "https://<mgmt-ip>/api/protocols/active-directory/1226670c-
abc9-11eb-8de3-0050568eb0c4/preferred-domain-
controllers/?fqdn=sample&server_ip=3.3.3.3&#124;4.4.4.4&#124;1.1.1.1&#124;
2.2.2.2"
```

Deleting the preferred DC configurations of a specifc SVM and set of "server_ips"

```
# The API:
DELETE /api/protocols/active-directory/{svm.uuid}/preferred-domain-
controllers

# The call:
curl -X DELETE "https://<mgmt-ip>/api/protocols/active-directory/1226670c-
abc9-11eb-8de3-0050568eb0c4/preferred-domain-
controllers/?server_ip=3.3.3.3&#124;4.4.4.4&#124;1.1.1.1&#124;2.2.2.2"
```

Retrieve an Active Directory preferred DC configuration for an SVM

GET `/protocols/active-directory/{svm.uuid}/preferred-domain-controllers`

Introduced In: 9.12

Retrieves the Active Directory preferred DC configuration of an SVM.

Related ONTAP commands

- `vserver active-directory preferred-dc show`

Parameters

Name	Type	In	Required	Description
fqdn	string	query	False	Filter by fqdn • maxLength: 254
server_ip	string	query	False	Filter by server_ip
svm.uuid	string	path	True	UUID of the SVM to which this object belongs.
fields	array[string]	query	False	Specify the fields to return.
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
max_records	integer	query	False	Limit the number of records returned.
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 Active Directory preferred DC records.
records	array[active_directory_preferred_dc]	

Example response


```
{
  "_links": {
    "next": {
      "href": "/api/resourcelink"
    },
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "num_records": 1,
  "records": [
    {
      "fqdn": "test.com",
      "server_ip": "4.4.4.4"
    }
  ]
}
```


Error

```
Status: Default, Error
```

Name	Type	Description
error	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	

active_directory_preferred_dc

Name	Type	Description
fqdn	string	Fully Qualified Domain Name.
server_ip	string	IP address of the preferred DC. The address can be either an IPv4 or an IPv6 address.

error_arguments

Name	Type	Description
code	string	Argument code
message	string	Message argument

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.

Create an Active Directory preferred DC configuration for an SVM

POST `/protocols/active-directory/{svm.uuid}/preferred-domain-controllers`

Introduced In: 9.12

Creates an Active Directory preferred DC configuration for an SVM.

Required properties

- `svm.uuid` - Existing SVM in which to create the preferred DC.
- `domain` - Fully Qualified Domain Name.
- `server_ip` - IPv4/IPv6 address of the preferred DC.

The following parameters are optional:

- skip_config_validation

Related ONTAP commands

- `vserver active-directory preferred-dc add`

Parameters

Name	Type	In	Required	Description
skip_config_validation	boolean	query	False	Skip the validation of the specified preferred DC configuration. • Default value:
return_records	boolean	query	False	The default is false. If set to true, the records are returned. • Default value:
svm.uuid	string	path	True	UUID of the SVM to which this object belongs.

Request Body

Name	Type	Description
fqdn	string	Fully Qualified Domain Name.
server_ip	string	IP address of the preferred DC. The address can be either an IPv4 or an IPv6 address.

Example request

```
{
  "fqdn": "test.com",
  "server_ip": "4.4.4.4"
}
```

Response

```
Status: 201, Created
```

Name	Type	Description
fqdn	string	Fully Qualified Domain Name.
server_ip	string	IP address of the preferred DC. The address can be either an IPv4 or an IPv6 address.

Example response

```
{
  "fqdn": "test.com",
  "server_ip": "4.4.4.4"
}
```

Headers

Name	Description	Type
Location	Useful for tracking the resource location	string

Error

```
Status: Default
```

ONTAP Error Response Codes

Error Code	Description
655366	Invalid domain controller.
655506	Failed to add preferred-dc.
655918	The fully qualified domain name cannot be longer than 254 bytes.
656407	Failed to validate preferred-dc.
656408	RPC failure occurred during preferred-dc config validation.

Definitions

See Definitions

active_directory_preferred_dc

Name	Type	Description
fqdn	string	Fully Qualified Domain Name.
server_ip	string	IP address of the preferred DC. The address can be either an IPv4 or an IPv6 address.

error_arguments

Name	Type	Description
code	string	Argument code
message	string	Message argument

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 an Active Directory preferred DC configuration for an SVM and domain

DELETE `/protocols/active-directory/{svm.uuid}/preferred-domain-controllers/{fqdn}/{server_ip}`

Introduced In: 9.12

Deletes the Active Directory preferred DC configuration of the specified SVM and domain.

Related ONTAP commands

- `vserver active-directory preferred-dc delete`

Parameters

Name	Type	In	Required	Description
fqdn	string	path	True	Fully Qualified Domain Name.
server_ip	string	path	True	DC's IP address.
svm.uuid	string	path	True	UUID of the SVM to which this object belongs.

Response

```
Status: 200, Ok
```

Error

```
Status: Default
```

ONTAP Error Response Codes

Error Code	Description
655507	Failed to remove preferred-dc.

Name	Type	Description
error	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

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 an Active Directory preferred DC configuration for an SVM and domain

GET `/protocols/active-directory/{svm.uuid}/preferred-domain-controllers/{fqdn}/{server_ip}`

Introduced In: 9.12

Retrieves the Active Directory preferred DC configuration of an SVM.

Related ONTAP commands

- `vserver active-directory preferred-dc show`

Parameters

Name	Type	In	Required	Description
fqdn	string	path	True	Fully Qualified Domain Name.
server_ip	string	path	True	DC's IP address.
svm.uuid	string	path	True	UUID of the SVM to which this object belongs.
fields	array[string]	query	False	Specify the fields to return.

Response

```
Status: 200, Ok
```

Name	Type	Description
fqdn	string	Fully Qualified Domain Name.
server_ip	string	IP address of the preferred DC. The address can be either an IPv4 or an IPv6 address.

Example response


```
{
  "fqdn": "test.com",
  "server_ip": "4.4.4.4"
}
```


Error

```
Status: Default, Error
```

Name	Type	Description
error	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

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.

Copyright information

Copyright © 2025 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.