



Manage LDAP server configuration

REST API reference

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Manage LDAP server configuration

Manage LDAP server configuration

Overview

LDAP servers are used to centrally maintain user information. LDAP configurations must be set up to look up information stored in the LDAP directory on the external LDAP servers. This API is used to retrieve and manage cluster LDAP server configurations.

Examples

Retrieving the cluster LDAP information

The cluster LDAP GET request retrieves the LDAP configuration of the cluster.

The following example shows how a GET request is used to retrieve the cluster LDAP information:

```
# The API:
/api/security/authentication/cluster/ldap

# The call:
curl -X GET "https://<mgmt-ip>/api/security/authentication/cluster/ldap"
-H "accept: application/hal+json"

# The response:
{
  "servers": [
    "10.10.10.10",
    "domainB.example.com"
  ],
  "schema": "ad_idmu",
  "port": 389,
  "min_bind_level": "anonymous",
  "bind_dn": "cn=Administrators,cn=users,dc=domainA,dc=example,dc=com",
  "base_dn": "dc=domainA,dc=example,dc=com",
  "base_scope": "subtree",
  "use_start_tls": true,
  "session_security": "none",
  "try_channel_binding": true,
  "_links": {
    "self": {
      "href": "/api/security/authentication/cluster/ldap"
    }
  }
}
```

Creating the cluster LDAP configuration

The cluster LDAP POST operation creates an LDAP configuration for the cluster.

The following example shows how to issue a POST request with all of the fields specified:

```
# The API:
/api/security/authentication/cluster/ldap

# The call:
curl -X POST "https://<mgmt-ip>/api/security/authentication/cluster/ldap"
-H "accept: application/hal+json" -H "Content-Type: application/json" -d
"{ \"servers\": [ \"10.10.10.10\", \"domainB.example.com\" ], \"schema\":
\"ad_idmu\", \"port\": 389, \"min_bind_level\": \"anonymous\",
\"bind_dn\": \"cn=Administrators,cn=users,dc=domainA,dc=example,dc=com\",
\"bind_password\": \"<BIND-PASSWORD>\", \"base_dn\":
\"dc=domainA,dc=example,dc=com\", \"base_scope\": \"subtree\",
\"use_start_tls\": false, \"session_security\": \"none\"}"
```

The following example shows how to issue a POST request with a number of optional fields not specified:

```
# The API:
/api/security/authentication/cluster/ldap

# The call:
curl -X POST "https://<mgmt-ip>/api/security/authentication/cluster/ldap"
-H "accept: application/hal+json" -H "Content-Type: application/json" -d
"{ \"port\": 389, \"bind_dn\":
\"cn=Administrators,cn=users,dc=domainA,dc=example,dc=com\",
\"bind_password\": \"<BIND-PASSWORD>\", \"base_dn\":
\"dc=domainA,dc=example,dc=com\", \"session_security\": \"none\"}"
```

Updating the cluster LDAP configuration

The cluster LDAP PATCH request updates the LDAP configuration of the cluster.

The following example shows how a PATCH request is used to update the cluster LDAP configuration:

```
# The API:
/api/security/authentication/cluster/ldap

# The call:
curl -X PATCH "https://<mgmt-ip>/api/security/authentication/cluster/ldap"
-H "accept: application/json" -H "Content-Type: application/json" -d "{
\"servers\": [ \"55.55.55.55\" ], \"schema\": \"ad_idmu\", \"port\": 636,
\"use_start_tls\": false }"
```

Deleting the cluster LDAP configuration

The cluster LDAP DELETE request deletes the LDAP configuration of the cluster.

The following example shows how a DELETE request is used to delete the cluster LDAP configuration:

```
# The API:
/api/security/authentication/cluster/ldap

# The call:
curl -X DELETE "https://<mgmt-
ip>/api/security/authentication/cluster/ldap" -H "accept:
application/hal+json"
```

Delete the LDAP configuration for the cluster

DELETE /security/authentication/cluster/ldap

Introduced In: 9.6

Deletes the LDAP configuration of the cluster.

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 the LDAP configuration for the cluster

GET /security/authentication/cluster/ldap

Introduced In: 9.6

Retrieves the cluster LDAP configuration.

Related ONTAP commands

- `ldap show`
- `ldap check -vserver vs0`
- `ldap check-ipv6 -vserver vs0`

Important notes

- The `status.code`, `status.dn_message`, `status.message`, and `status.state` fields have the same status fields that are returned using the "ldap check" CLI command.
- Refer to the `ipv4` or `ipv6` objects available in the `status` field to get specific information about the code, `dn_messages`, or message and state information for `ipv4` or `ipv6`.

Parameters

Name	Type	In	Required	Description
fields	array[string]	query	False	Specify the fields to return.

Response

Status: 200, Ok

Name	Type	Description
_links	_links	
base_dn	string	Specifies the default base DN for all searches.

Name	Type	Description
base_scope	string	Specifies the default search scope for LDAP queries: • base - search the named entry only • onelevel - search all entries immediately below the DN • subtree - search the named DN entry and the entire subtree below the DN
bind_as_cifs_server	boolean	Specifies whether or not CIFS server's credentials are used to bind to the LDAP server.
bind_dn	string	Specifies the user that binds to the LDAP servers.
group_dn	string	Specifies the group Distinguished Name (DN) that is used as the starting point in the LDAP directory tree for group lookups.
group_membership_filter	string	Specifies the custom filter used for group membership lookups from an LDAP server.
group_scope	string	Specifies the default search scope for LDAP for group lookups: • base - search the named entry only • onelevel - search all entries immediately below the DN • subtree - search the named DN entry and the entire subtree below the DN
is_netgroup_byhost_enabled	boolean	Specifies whether or not netgroup by host querying is enabled.
is_owner	boolean	Specifies whether or not the SVM owns the LDAP client configuration.
ldaps_enabled	boolean	Specifies whether or not LDAPS is enabled.

Name	Type	Description
min_bind_level	string	The minimum bind authentication level. Possible values are: • anonymous - anonymous bind • simple - simple bind • sasl - Simple Authentication and Security Layer (SASL) bind
netgroup_byhost_dn	string	Specifies the netgroup Distinguished Name (DN) that is used as the starting point in the LDAP directory tree for netgroup by host lookups.
netgroup_byhost_scope	string	Specifies the default search scope for LDAP for netgroup by host lookups: • base - search the named entry only • onelevel - search all entries immediately below the DN • subtree - search the named DN entry and the entire subtree below the DN
netgroup_dn	string	Specifies the netgroup Distinguished Name (DN) that is used as the starting point in the LDAP directory tree for netgroup lookups.
netgroup_scope	string	Specifies the default search scope for LDAP for netgroup lookups: • base - search the named entry only • onelevel - search all entries immediately below the DN • subtree - search the named DN entry and the entire subtree below the DN
port	integer	The port used to connect to the LDAP Servers.

Name	Type	Description
query_timeout	integer	Specifies the maximum time to wait for a query response from the LDAP server, in seconds.
schema	string	The name of the schema template used by the SVM. • AD-IDMU - Active Directory Identity Management for UNIX • AD-SFU - Active Directory Services for UNIX • MS-AD-BIS - Active Directory Identity Management for UNIX • RFC-2307 - Schema based on RFC 2307 • Custom schema
servers	array[string]	
session_security	string	Specifies the level of security to be used for LDAP communications: • none - no signing or sealing • sign - sign LDAP traffic • seal - seal and sign LDAP traffic
status	status	
try_channel_binding	boolean	Specifies whether or not channel binding is attempted in the case of TLS/LDAPS.
use_start_tls	boolean	Specifies whether or not to use Start TLS over LDAP connections.
user_dn	string	Specifies the user Distinguished Name (DN) that is used as the starting point in the LDAP directory tree for user lookups.

Name	Type	Description
user_scope	string	Specifies the default search scope for LDAP for user lookups: • base - search the named entry only • onelevel - search all entries immediately below the DN • subtree - search the named DN entry and the entire subtree below the DN

Example response

```
{
  "_links": {
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "base_dn": "string",
  "base_scope": "string",
  "bind_dn": "string",
  "group_dn": "string",
  "group_membership_filter": "string",
  "group_scope": "string",
  "min_bind_level": "string",
  "netgroup_byhost_dn": "string",
  "netgroup_byhost_scope": "string",
  "netgroup_dn": "string",
  "netgroup_scope": "string",
  "port": 389,
  "schema": "string",
  "servers": [
    "string"
  ],
  "session_security": "string",
  "skip_config_validation": true,
  "status": {
    "code": 65537300,
    "dn_message": [
      "string"
    ],
  },
  "ipv4": {
    "code": 65537300,
    "dn_messages": [
      "string"
    ],
    "message": "string",
    "state": "string"
  },
  "ipv4_state": "string",
  "ipv6": {
    "code": 65537300,
    "dn_messages": [
      "string"
    ],
    "message": "string",
  },
}
```

```

    "state": "string"
  },
  "ipv6_state": "string",
  "message": "string",
  "state": "string"
},
"user_dn": "string",
"user_scope": "string"
}

```

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	

ipv4

Name	Type	Description
code	integer	Code corresponding to the error message. If there is no error, it is 0 to indicate success.
dn_messages	array[string]	
message	string	Provides additional details on the error.
state	string	Status of the LDAP service.

ipv6

Name	Type	Description
code	integer	Code corresponding to the error message. If there is no error, it is 0 to indicate success.
dn_messages	array[string]	
message	string	Provides additional details on the error.
state	string	Status of the LDAP service.

status

Name	Type	Description
code	integer	This field is no longer supported. Use ipv4.code or ipv6.code instead.

Name	Type	Description
dn_message	array[string]	
ipv4	ipv4	
ipv4_state	string	This field is no longer supported. Use <code>ipv4.state</code> instead.
ipv6	ipv6	
ipv6_state	string	This field is no longer supported. Use <code>ipv6.state</code> instead.
message	string	This field is no longer supported. Use <code>ipv4.message</code> or <code>ipv6.message</code> instead.
state	string	The status of the LDAP service for the SVM. The LDAP service is up if either <code>ipv4_state</code> or <code>ipv6_state</code> is up. The LDAP service is down if both <code>ipv4_state</code> and <code>ipv6_state</code> are down.

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.

Update the LDAP configuration for the cluster

PATCH /security/authentication/cluster/ldap

Introduced In: 9.6

Both mandatory and optional parameters of the LDAP configuration can be updated. IPv6 must be enabled if IPv6 family addresses are specified. Configuring more than one LDAP server is recommended to avoid a single point of failure. Both FQDNs and IP addresses are supported for the `servers` property. The LDAP servers are validated as part of this operation. LDAP validation fails in the following scenarios:

1. The server does not have LDAP installed.
2. The server is invalid.
3. The server is unreachable.

Request Body

Name	Type	Description
base_dn	string	Specifies the default base DN for all searches.
base_scope	string	Specifies the default search scope for LDAP queries: • base - search the named entry only • onelevel - search all entries immediately below the DN • subtree - search the named DN entry and the entire subtree below the DN
bind_as_cifs_server	boolean	Specifies whether or not CIFS server's credentials are used to bind to the LDAP server.
bind_dn	string	Specifies the user that binds to the LDAP servers.
bind_password	string	Specifies the bind password for the LDAP servers.
group_dn	string	Specifies the group Distinguished Name (DN) that is used as the starting point in the LDAP directory tree for group lookups.

Name	Type	Description
group_membership_filter	string	Specifies the custom filter used for group membership lookups from an LDAP server.
group_scope	string	Specifies the default search scope for LDAP for group lookups: • base - search the named entry only • onelevel - search all entries immediately below the DN • subtree - search the named DN entry and the entire subtree below the DN
is_netgroup_byhost_enabled	boolean	Specifies whether or not netgroup by host querying is enabled.
is_owner	boolean	Specifies whether or not the SVM owns the LDAP client configuration.
ldaps_enabled	boolean	Specifies whether or not LDAPS is enabled.
min_bind_level	string	The minimum bind authentication level. Possible values are: • anonymous - anonymous bind • simple - simple bind • sasl - Simple Authentication and Security Layer (SASL) bind
netgroup_byhost_dn	string	Specifies the netgroup Distinguished Name (DN) that is used as the starting point in the LDAP directory tree for netgroup by host lookups.

Name	Type	Description
netgroup_byhost_scope	string	Specifies the default search scope for LDAP for netgroup by host lookups: • base - search the named entry only • onelevel - search all entries immediately below the DN • subtree - search the named DN entry and the entire subtree below the DN
netgroup_dn	string	Specifies the netgroup Distinguished Name (DN) that is used as the starting point in the LDAP directory tree for netgroup lookups.
netgroup_scope	string	Specifies the default search scope for LDAP for netgroup lookups: • base - search the named entry only • onelevel - search all entries immediately below the DN • subtree - search the named DN entry and the entire subtree below the DN
port	integer	The port used to connect to the LDAP Servers.
query_timeout	integer	Specifies the maximum time to wait for a query response from the LDAP server, in seconds.

Name	Type	Description
schema	string	The name of the schema template used by the SVM. • AD-IDMU - Active Directory Identity Management for UNIX • AD-SFU - Active Directory Services for UNIX • MS-AD-BIS - Active Directory Identity Management for UNIX • RFC-2307 - Schema based on RFC 2307 • Custom schema
servers	array[string]	
session_security	string	Specifies the level of security to be used for LDAP communications: • none - no signing or sealing • sign - sign LDAP traffic • seal - seal and sign LDAP traffic
skip_config_validation	boolean	Indicates whether or not the validation for the specified LDAP configuration is disabled.
status	status	
try_channel_binding	boolean	Specifies whether or not channel binding is attempted in the case of TLS/LDAPS.
use_start_tls	boolean	Specifies whether or not to use Start TLS over LDAP connections.
user_dn	string	Specifies the user Distinguished Name (DN) that is used as the starting point in the LDAP directory tree for user lookups.

Name	Type	Description
user_scope	string	Specifies the default search scope for LDAP for user lookups: • base - search the named entry only • onelevel - search all entries immediately below the DN • subtree - search the named DN entry and the entire subtree below the DN

Example request

```
{
  "base_dn": "string",
  "base_scope": "string",
  "bind_dn": "string",
  "bind_password": "string",
  "group_dn": "string",
  "group_membership_filter": "string",
  "group_scope": "string",
  "min_bind_level": "string",
  "netgroup_byhost_dn": "string",
  "netgroup_byhost_scope": "string",
  "netgroup_dn": "string",
  "netgroup_scope": "string",
  "port": 389,
  "schema": "string",
  "servers": [
    "string"
  ],
  "session_security": "string",
  "status": {
    "code": 65537300,
    "dn_message": [
      "string"
    ],
  },
  "ipv4": {
    "code": 65537300,
    "dn_messages": [
      "string"
    ],
    "message": "string",
    "state": "string"
  },
  "ipv4_state": "string",
  "ipv6": {
    "code": 65537300,
    "dn_messages": [
      "string"
    ],
    "message": "string",
    "state": "string"
  },
  "ipv6_state": "string",
  "message": "string",
  "state": "string"
}
```

```

},
"user_dn": "string",
"user_scope": "string"
}

```

Response

Status: 200, Ok

Error

Status: Default

ONTAP Error Response Codes

Error Code	Description
4915203	The specified LDAP schema does not exist.
262222	The specified LDAP servers contain duplicate server entries.
4915229	DNS resolution failed due to an internal error. Contact technical support if this issue persists.
4915231	DNS resolution failed for one or more of the specified LDAP servers. Verify that a valid DNS server is configured.
23724132	DNS resolution failed for all the specified LDAP servers. Verify that a valid DNS server is configured.
4915234	Specified LDAP server is not supported because it is one of the following: multicast, loopback, 0.0.0.0, or broadcast.
4915248	LDAP servers cannot be empty or "-". Specified FQDN is not valid because it is empty or "-" or it contains either special characters or "-" at the start or end of the domain.
4915251	STARTTLS and LDAPS cannot be used together
4915257	The LDAP configuration is not valid. Verify that the Distinguished Names and bind password are correct.
4915258	The LDAP configuration is not valid. Verify that the servers are reachable and that the network configuration is correct.
23724130	Cannot use an IPv6 name server address because there are no IPv6 interfaces.

Error Code	Description
4915252	LDAP referral is not supported with STARTTLS, with session security levels sign, seal or with LDAPS.
4915244	RPC failure occurred during validation of the LDAP configuration.
4915265	The specified bind password or bind DN is invalid

Definitions

See Definitions

href

Name	Type	Description
href	string	

_links

ipv4

Name	Type	Description
code	integer	Code corresponding to the error message. If there is no error, it is 0 to indicate success.
dn_messages	array[string]	
message	string	Provides additional details on the error.
state	string	Status of the LDAP service.

ipv6

Name	Type	Description
code	integer	Code corresponding to the error message. If there is no error, it is 0 to indicate success.
dn_messages	array[string]	
message	string	Provides additional details on the error.
state	string	Status of the LDAP service.

status

Name	Type	Description
code	integer	This field is no longer supported. Use ipv4.code or ipv6.code instead.
dn_message	array[string]	
ipv4	ipv4	

Name	Type	Description
ipv4_state	string	This field is no longer supported. Use ipv4.state instead.
ipv6	ipv6	
ipv6_state	string	This field is no longer supported. Use ipv6.state instead.
message	string	This field is no longer supported. Use ipv4.message or ipv6.message instead.
state	string	The status of the LDAP service for the SVM. The LDAP service is up if either <code>ipv4_state</code> or <code>ipv6_state</code> is up. The LDAP service is down if both <code>ipv4_state</code> and <code>ipv6_state</code> are down.

cluster_ldap

Name	Type	Description
base_dn	string	Specifies the default base DN for all searches.
base_scope	string	Specifies the default search scope for LDAP queries: • base - search the named entry only • onelevel - search all entries immediately below the DN • subtree - search the named DN entry and the entire subtree below the DN
bind_as_cifs_server	boolean	Specifies whether or not CIFS server's credentials are used to bind to the LDAP server.
bind_dn	string	Specifies the user that binds to the LDAP servers.
bind_password	string	Specifies the bind password for the LDAP servers.

Name	Type	Description
group_dn	string	Specifies the group Distinguished Name (DN) that is used as the starting point in the LDAP directory tree for group lookups.
group_membership_filter	string	Specifies the custom filter used for group membership lookups from an LDAP server.
group_scope	string	Specifies the default search scope for LDAP for group lookups: • base - search the named entry only • onelevel - search all entries immediately below the DN • subtree - search the named DN entry and the entire subtree below the DN
is_netgroup_byhost_enabled	boolean	Specifies whether or not netgroup by host querying is enabled.
is_owner	boolean	Specifies whether or not the SVM owns the LDAP client configuration.
ldaps_enabled	boolean	Specifies whether or not LDAPS is enabled.
min_bind_level	string	The minimum bind authentication level. Possible values are: • anonymous - anonymous bind • simple - simple bind • sasl - Simple Authentication and Security Layer (SASL) bind
netgroup_byhost_dn	string	Specifies the netgroup Distinguished Name (DN) that is used as the starting point in the LDAP directory tree for netgroup by host lookups.

Name	Type	Description
netgroup_byhost_scope	string	Specifies the default search scope for LDAP for netgroup by host lookups: • base - search the named entry only • onelevel - search all entries immediately below the DN • subtree - search the named DN entry and the entire subtree below the DN
netgroup_dn	string	Specifies the netgroup Distinguished Name (DN) that is used as the starting point in the LDAP directory tree for netgroup lookups.
netgroup_scope	string	Specifies the default search scope for LDAP for netgroup lookups: • base - search the named entry only • onelevel - search all entries immediately below the DN • subtree - search the named DN entry and the entire subtree below the DN
port	integer	The port used to connect to the LDAP Servers.
query_timeout	integer	Specifies the maximum time to wait for a query response from the LDAP server, in seconds.

Name	Type	Description
schema	string	The name of the schema template used by the SVM. • AD-IDMU - Active Directory Identity Management for UNIX • AD-SFU - Active Directory Services for UNIX • MS-AD-BIS - Active Directory Identity Management for UNIX • RFC-2307 - Schema based on RFC 2307 • Custom schema
servers	array[string]	
session_security	string	Specifies the level of security to be used for LDAP communications: • none - no signing or sealing • sign - sign LDAP traffic • seal - seal and sign LDAP traffic
skip_config_validation	boolean	Indicates whether or not the validation for the specified LDAP configuration is disabled.
status	status	
try_channel_binding	boolean	Specifies whether or not channel binding is attempted in the case of TLS/LDAPS.
use_start_tls	boolean	Specifies whether or not to use Start TLS over LDAP connections.
user_dn	string	Specifies the user Distinguished Name (DN) that is used as the starting point in the LDAP directory tree for user lookups.

Name	Type	Description
user_scope	string	Specifies the default search scope for LDAP for user lookups: • base - search the named entry only • onelevel - search all entries immediately below the DN • subtree - search the named DN entry and the entire subtree below the DN

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.

Create the LDAP configuration for the cluster

POST /security/authentication/cluster/ldap

Introduced In: 9.6

A cluster can have only one LDAP configuration. IPv6 must be enabled if IPv6 family addresses are specified.

Required properties

- `servers` - List of LDAP servers used for this client configuration.

Recommended optional properties

- `schema` - Schema template name.
- `port` - Port used to connect to the LDAP Servers.
- `ldaps_enabled` - Specifies whether or not LDAPS is enabled.
- `min_bind_level` - Minimum bind authentication level.
- `bind_dn` - Specifies the user that binds to the LDAP servers.
- `base_dn` - Specifies the default base DN for all searches.
- `bind_password` - Specifies the bind password for the LDAP servers.
- `base_scope` - Specifies the default search scope for LDAP queries.
- `use_start_tls` - Specifies whether or not to use Start TLS over LDAP connections.
- `session_security` - Specifies the level of security to be used for LDAP communications.
- `bind_as_cifs_server` - Indicates if CIFS server's credentials are used to bind to the LDAP server.
- `query_timeout` - Maximum time to wait for a query response from the LDAP server, in seconds.
- `user_dn` - User Distinguished Name (DN) used as the starting point in the LDAP directory tree for user lookups.
- `user_scope` - Default search scope for LDAP for user lookups.
- `group_dn` - Group Distinguished Name (DN) used as the starting point in the LDAP directory tree for group lookups.
- `group_scope` - Default search scope for LDAP for group lookups.
- `netgroup_dn` - Netgroup Distinguished Name (DN) used as the starting point in the LDAP directory tree for netgroup lookups.
- `netgroup_scope` - Default search scope for LDAP for netgroup lookups.
- `netgroup_byhost_dn` - Netgroup Distinguished Name (DN) used as the starting point in the LDAP directory tree for netgroup by host lookups.
- `netgroup_byhost_scope` - Default search scope for LDAP for netgroup by host lookups.
- `is_netgroup_byhost_enabled` - Specifies whether netgroup by host querying is enabled.
- `group_membership_filter` - Custom filter used for group membership lookup from an LDAP server.
- `skip_config_validation` - Indicates whether or not the validation for the specified LDAP configuration is disabled.

Default property values

- `schema` - *RFC-2307*
- `port` - *389*
- `ldaps_enabled` - *false*
- `min_bind_level` - *simple*
- `base_scope` - *subtree*

- `use_start_tls` - *false*
- `session_security` - *none*
- `query_timeout` - *3*
- `user_scope` - *subtree*
- `group_scope` - *subtree*
- `netgroup_scope` - *subtree*
- `netgroup_byhost_scope` - *subtree*
- `is_netgroup_byhost_enabled` - *false*
- `skip_config_validation` - *false*
- `try_channel_binding` - *true*

Configuring more than one LDAP server is recommended to avoid a single point of failure. Both FQDNs and IP addresses are supported for the `servers` property. The LDAP servers are validated as part of this operation. LDAP validation fails in the following scenarios:

1. The server does not have LDAP installed.
2. The server is invalid.
3. The server is unreachable.

Request Body

Name	Type	Description
<code>base_dn</code>	string	Specifies the default base DN for all searches.
<code>base_scope</code>	string	Specifies the default search scope for LDAP queries: • <code>base</code> - search the named entry only • <code>onelevel</code> - search all entries immediately below the DN • <code>subtree</code> - search the named DN entry and the entire subtree below the DN
<code>bind_as_cifs_server</code>	boolean	Specifies whether or not CIFS server's credentials are used to bind to the LDAP server.
<code>bind_dn</code>	string	Specifies the user that binds to the LDAP servers.

Name	Type	Description
bind_password	string	Specifies the bind password for the LDAP servers.
group_dn	string	Specifies the group Distinguished Name (DN) that is used as the starting point in the LDAP directory tree for group lookups.
group_membership_filter	string	Specifies the custom filter used for group membership lookups from an LDAP server.
group_scope	string	Specifies the default search scope for LDAP for group lookups: • base - search the named entry only • onelevel - search all entries immediately below the DN • subtree - search the named DN entry and the entire subtree below the DN
is_netgroup_byhost_enabled	boolean	Specifies whether or not netgroup by host querying is enabled.
is_owner	boolean	Specifies whether or not the SVM owns the LDAP client configuration.
ldaps_enabled	boolean	Specifies whether or not LDAPS is enabled.
min_bind_level	string	The minimum bind authentication level. Possible values are: • anonymous - anonymous bind • simple - simple bind • sasl - Simple Authentication and Security Layer (SASL) bind
netgroup_byhost_dn	string	Specifies the netgroup Distinguished Name (DN) that is used as the starting point in the LDAP directory tree for netgroup by host lookups.

Name	Type	Description
netgroup_byhost_scope	string	Specifies the default search scope for LDAP for netgroup by host lookups: • base - search the named entry only • onelevel - search all entries immediately below the DN • subtree - search the named DN entry and the entire subtree below the DN
netgroup_dn	string	Specifies the netgroup Distinguished Name (DN) that is used as the starting point in the LDAP directory tree for netgroup lookups.
netgroup_scope	string	Specifies the default search scope for LDAP for netgroup lookups: • base - search the named entry only • onelevel - search all entries immediately below the DN • subtree - search the named DN entry and the entire subtree below the DN
port	integer	The port used to connect to the LDAP Servers.
query_timeout	integer	Specifies the maximum time to wait for a query response from the LDAP server, in seconds.

Name	Type	Description
schema	string	The name of the schema template used by the SVM. • AD-IDMU - Active Directory Identity Management for UNIX • AD-SFU - Active Directory Services for UNIX • MS-AD-BIS - Active Directory Identity Management for UNIX • RFC-2307 - Schema based on RFC 2307 • Custom schema
servers	array[string]	
session_security	string	Specifies the level of security to be used for LDAP communications: • none - no signing or sealing • sign - sign LDAP traffic • seal - seal and sign LDAP traffic
skip_config_validation	boolean	Indicates whether or not the validation for the specified LDAP configuration is disabled.
status	status	
try_channel_binding	boolean	Specifies whether or not channel binding is attempted in the case of TLS/LDAPS.
use_start_tls	boolean	Specifies whether or not to use Start TLS over LDAP connections.
user_dn	string	Specifies the user Distinguished Name (DN) that is used as the starting point in the LDAP directory tree for user lookups.

Name	Type	Description
user_scope	string	Specifies the default search scope for LDAP for user lookups: • base - search the named entry only • onelevel - search all entries immediately below the DN • subtree - search the named DN entry and the entire subtree below the DN

Example request

```
{
  "base_dn": "string",
  "base_scope": "string",
  "bind_dn": "string",
  "bind_password": "string",
  "group_dn": "string",
  "group_membership_filter": "string",
  "group_scope": "string",
  "min_bind_level": "string",
  "netgroup_byhost_dn": "string",
  "netgroup_byhost_scope": "string",
  "netgroup_dn": "string",
  "netgroup_scope": "string",
  "port": 389,
  "schema": "string",
  "servers": [
    "string"
  ],
  "session_security": "string",
  "status": {
    "code": 65537300,
    "dn_message": [
      "string"
    ],
  },
  "ipv4": {
    "code": 65537300,
    "dn_messages": [
      "string"
    ],
    "message": "string",
    "state": "string"
  },
  "ipv4_state": "string",
  "ipv6": {
    "code": 65537300,
    "dn_messages": [
      "string"
    ],
    "message": "string",
    "state": "string"
  },
  "ipv6_state": "string",
  "message": "string",
  "state": "string"
}
```

```
},  
"user_dn": "string",  
"user_scope": "string"  
}
```

Response

Status: 201, Created

Name	Type	Description
num_records	integer	Number of LDAP records.
records	array[ldap_service]	

Example response

```
{
  "num_records": 1,
  "records": [
    {
      "ad_domain": "example.com",
      "base_dn": "dc=domainB,dc=example,dc=com",
      "base_scope": "string",
      "bind_dn":
"cn=Administrators,cn=users,dc=domainB,dc=example,dc=com",
      "bind_password": "abc",
      "group_dn": "cn=abc,users,dc=com",
      "group_membership_filter": "",
      "group_scope": "string",
      "min_bind_level": "string",
      "netgroup_byhost_dn": "cn=abc,users,dc=com",
      "netgroup_byhost_scope": "string",
      "netgroup_dn": "cn=abc,users,dc=com",
      "netgroup_scope": "string",
      "port": 389,
      "preferred_ad_servers": [
        "11.11.11.11"
      ],
      "schema": "ad_idmu",
      "servers": [
        [
          "10.10.10.10",
          "domainB.example.com"
        ]
      ],
      "session_security": "string",
      "status": {
        "code": 65537300,
        "dn_message": [
          "string"
        ],
        "ipv4": {
          "code": 65537300,
          "dn_messages": [
            "string"
          ],
          "message": "string",
          "state": "string"
        },
        "ipv4_state": "string",
```

```

    "ipv6": {
      "code": 65537300,
      "dn_messages": [
        "string"
      ],
      "message": "string",
      "state": "string"
    },
    "ipv6_state": "string",
    "message": "string",
    "state": "string"
  },
  "svm": {
    "name": "svm1",
    "uuid": "02c9e252-41be-11e9-81d5-00a0986138f7"
  },
  "user_dn": "cn=abc,users,dc=com",
  "user_scope": "string"
}
]
}

```

Headers

Name	Description	Type
Location	Useful for tracking the resource location	string

Error

Status: Default

ONTAP Error Response Codes

Error Code	Description
4915203	The specified LDAP schema does not exist.
262222	The specified LDAP servers contain duplicate server entries.
4915229	DNS resolution failed due to an internal error. Contact technical support if this issue persists.
4915231	DNS resolution failed for one or more of the specified LDAP servers. Verify that a valid DNS server is configured.

Error Code	Description
23724132	DNS resolution failed for all the specified LDAP servers. Verify that a valid DNS server is configured.
4915234	The specified LDAP server is not supported because it is one of the following: multicast, loopback, 0.0.0.0, or broadcast.
4915248	LDAP servers cannot be empty or "-". Specified FQDN is invalid because it is empty or "-" or it contains either special characters or "-" at the start or end of the domain.
4915251	STARTTLS and LDAPS cannot be used together.
4915257	The LDAP configuration is invalid. Verify that bind-dn and bind password are correct.
4915258	The LDAP configuration is invalid. Verify that the servers are reachable and that the network configuration is correct.
13434916	The SVM is in the process of being created. Wait a few minutes, and then try the command again.
23724130	Cannot use an IPv6 name server address because there are no IPv6 interfaces.
4915252	LDAP referral is not supported with STARTTLS, with session security levels sign, seal or with LDAPS.
4915265	The specified bind password or bind DN is invalid

Definitions

See Definitions

href

Name	Type	Description
href	string	

_links

ipv4

Name	Type	Description
code	integer	Code corresponding to the error message. If there is no error, it is 0 to indicate success.
dn_messages	array[string]	
message	string	Provides additional details on the error.
state	string	Status of the LDAP service.

ipv6

Name	Type	Description
code	integer	Code corresponding to the error message. If there is no error, it is 0 to indicate success.
dn_messages	array[string]	
message	string	Provides additional details on the error.
state	string	Status of the LDAP service.

status

Name	Type	Description
code	integer	This field is no longer supported. Use ipv4.code or ipv6.code instead.
dn_message	array[string]	
ipv4	ipv4	

Name	Type	Description
ipv4_state	string	This field is no longer supported. Use ipv4.state instead.
ipv6	ipv6	
ipv6_state	string	This field is no longer supported. Use ipv6.state instead.
message	string	This field is no longer supported. Use ipv4.message or ipv6.message instead.
state	string	The status of the LDAP service for the SVM. The LDAP service is up if either <code>ipv4_state</code> or <code>ipv6_state</code> is up. The LDAP service is down if both <code>ipv4_state</code> and <code>ipv6_state</code> are down.

cluster_ldap

Name	Type	Description
base_dn	string	Specifies the default base DN for all searches.
base_scope	string	Specifies the default search scope for LDAP queries: • base - search the named entry only • onelevel - search all entries immediately below the DN • subtree - search the named DN entry and the entire subtree below the DN
bind_as_cifs_server	boolean	Specifies whether or not CIFS server's credentials are used to bind to the LDAP server.
bind_dn	string	Specifies the user that binds to the LDAP servers.
bind_password	string	Specifies the bind password for the LDAP servers.

Name	Type	Description
group_dn	string	Specifies the group Distinguished Name (DN) that is used as the starting point in the LDAP directory tree for group lookups.
group_membership_filter	string	Specifies the custom filter used for group membership lookups from an LDAP server.
group_scope	string	Specifies the default search scope for LDAP for group lookups: • base - search the named entry only • onelevel - search all entries immediately below the DN • subtree - search the named DN entry and the entire subtree below the DN
is_netgroup_byhost_enabled	boolean	Specifies whether or not netgroup by host querying is enabled.
is_owner	boolean	Specifies whether or not the SVM owns the LDAP client configuration.
ldaps_enabled	boolean	Specifies whether or not LDAPS is enabled.
min_bind_level	string	The minimum bind authentication level. Possible values are: • anonymous - anonymous bind • simple - simple bind • sasl - Simple Authentication and Security Layer (SASL) bind
netgroup_byhost_dn	string	Specifies the netgroup Distinguished Name (DN) that is used as the starting point in the LDAP directory tree for netgroup by host lookups.

Name	Type	Description
netgroup_byhost_scope	string	Specifies the default search scope for LDAP for netgroup by host lookups: • base - search the named entry only • onelevel - search all entries immediately below the DN • subtree - search the named DN entry and the entire subtree below the DN
netgroup_dn	string	Specifies the netgroup Distinguished Name (DN) that is used as the starting point in the LDAP directory tree for netgroup lookups.
netgroup_scope	string	Specifies the default search scope for LDAP for netgroup lookups: • base - search the named entry only • onelevel - search all entries immediately below the DN • subtree - search the named DN entry and the entire subtree below the DN
port	integer	The port used to connect to the LDAP Servers.
query_timeout	integer	Specifies the maximum time to wait for a query response from the LDAP server, in seconds.

Name	Type	Description
schema	string	The name of the schema template used by the SVM. • AD-IDMU - Active Directory Identity Management for UNIX • AD-SFU - Active Directory Services for UNIX • MS-AD-BIS - Active Directory Identity Management for UNIX • RFC-2307 - Schema based on RFC 2307 • Custom schema
servers	array[string]	
session_security	string	Specifies the level of security to be used for LDAP communications: • none - no signing or sealing • sign - sign LDAP traffic • seal - seal and sign LDAP traffic
skip_config_validation	boolean	Indicates whether or not the validation for the specified LDAP configuration is disabled.
status	status	
try_channel_binding	boolean	Specifies whether or not channel binding is attempted in the case of TLS/LDAPS.
use_start_tls	boolean	Specifies whether or not to use Start TLS over LDAP connections.
user_dn	string	Specifies the user Distinguished Name (DN) that is used as the starting point in the LDAP directory tree for user lookups.

Name	Type	Description
user_scope	string	Specifies the default search scope for LDAP for user lookups: • base - search the named entry only • onelevel - search all entries immediately below the DN • subtree - search the named DN entry and the entire subtree below the DN

svm

SVM, applies only to SVM-scoped objects.

Name	Type	Description
name	string	The name of the SVM. This field cannot be specified in a PATCH method.
uuid	string	The unique identifier of the SVM. This field cannot be specified in a PATCH method.

ldap_service

Name	Type	Description
ad_domain	string	This parameter specifies the name of the Active Directory domain used to discover LDAP servers for use by this client. This is mutually exclusive with <code>servers</code> during POST and PATCH.
base_dn	string	Specifies the default base DN for all searches.

Name	Type	Description
base_scope	string	Specifies the default search scope for LDAP queries: • base - search the named entry only • onelevel - search all entries immediately below the DN • subtree - search the named DN entry and the entire subtree below the DN
bind_as_cifs_server	boolean	Specifies whether or not CIFS server's credentials are used to bind to the LDAP server.
bind_dn	string	Specifies the user that binds to the LDAP servers.
bind_password	string	Specifies the bind password for the LDAP servers.
group_dn	string	Specifies the group Distinguished Name (DN) that is used as the starting point in the LDAP directory tree for group lookups.
group_membership_filter	string	Specifies the custom filter used for group membership lookups from an LDAP server.
group_scope	string	Specifies the default search scope for LDAP for group lookups: • base - search the named entry only • onelevel - search all entries immediately below the DN • subtree - search the named DN entry and the entire subtree below the DN
is_netgroup_byhost_enabled	boolean	Specifies whether or not netgroup by host querying is enabled.

Name	Type	Description
is_owner	boolean	Specifies whether or not the SVM owns the LDAP client configuration.
ldaps_enabled	boolean	Specifies whether or not LDAPS is enabled.
min_bind_level	string	The minimum bind authentication level. Possible values are: • anonymous - anonymous bind • simple - simple bind • sasl - Simple Authentication and Security Layer (SASL) bind
netgroup_byhost_dn	string	Specifies the netgroup Distinguished Name (DN) that is used as the starting point in the LDAP directory tree for netgroup by host lookups.
netgroup_byhost_scope	string	Specifies the default search scope for LDAP for netgroup by host lookups: • base - search the named entry only • onelevel - search all entries immediately below the DN • subtree - search the named DN entry and the entire subtree below the DN
netgroup_dn	string	Specifies the netgroup Distinguished Name (DN) that is used as the starting point in the LDAP directory tree for netgroup lookups.

Name	Type	Description
netgroup_scope	string	Specifies the default search scope for LDAP for netgroup lookups: • base - search the named entry only • onelevel - search all entries immediately below the DN • subtree - search the named DN entry and the entire subtree below the DN
port	integer	The port used to connect to the LDAP Servers.
preferred_ad_servers	array[string]	
query_timeout	integer	Specifies the maximum time to wait for a query response from the LDAP server, in seconds.
referral_enabled	boolean	Specifies whether or not LDAP referral is enabled.
restrict_discovery_to_site	boolean	Specifies whether or not LDAP server discovery is restricted to site-scope.
schema	string	The name of the schema template used by the SVM. • AD-IDMU - Active Directory Identity Management for UNIX • AD-SFU - Active Directory Services for UNIX • MS-AD-BIS - Active Directory Identity Management for UNIX • RFC-2307 - Schema based on RFC 2307 • Custom schema
servers	array[string]	

Name	Type	Description
session_security	string	Specifies the level of security to be used for LDAP communications: • none - no signing or sealing • sign - sign LDAP traffic • seal - seal and sign LDAP traffic
skip_config_validation	boolean	Indicates whether or not the validation for the specified LDAP configuration is disabled.
status	status	
svm	svm	SVM, applies only to SVM-scoped objects.
try_channel_binding	boolean	Specifies whether or not channel binding is attempted in the case of TLS/LDAPS.
use_start_tls	boolean	Specifies whether or not to use Start TLS over LDAP connections.
user_dn	string	Specifies the user Distinguished Name (DN) that is used as the starting point in the LDAP directory tree for user lookups.
user_scope	string	Specifies the default search scope for LDAP for user lookups: • base - search the named entry only • onelevel - search all entries immediately below the DN • subtree - search the named DN entry and the entire subtree below the DN

error_arguments

Name	Type	Description
code	string	Argument code

Name	Type	Description
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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