Quest® On Demand Recovery

Supported Attributes

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Legend

> ❗ **CAUTION: A CAUTION icon indicates potential damage to hardware or loss of data if instructions are not followed.**

> ℹ **IMPORTANT**, **NOTE**, **TIP**, **MOBILE**, or **VIDEO**: An information icon indicates supporting information.

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About Supported Attributes

On Demand Recovery allows the restoration of Microsoft Entra ID and Microsoft 365 users, groups, applications, service principals, devices, Conditional Access policies and Application Proxy settings. The application can process two types of Microsoft 365 groups: Microsoft 365 groups and security groups. Group membership and ownership is restored for both types of groups.

Objects can be selected in a backup and then restored to Microsoft Entra ID or Microsoft 365 without affecting other objects or attributes. Using the granular restore, objects that were accidentally deleted or modified can be recovered in a few minutes.

The following guide provides attributes for each object type that can be restored by On Demand Recovery. These object types include:

- Entra Users
- Entra Groups
- Service Principals (Enterprise Applications)
- Devices
- Applications (Application Registrations)
- Conditional Access Policy
- Application Proxy
- Country Named Location
- IP Named Location
- Tenant Level Settings
- Administrative Units

For more information on restoring objects, visit the On Demand Recovery documentation.

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Entra Users

Users are the representation of a Microsoft Entra work or school user account.

The lists below include all supported Microsoft Entra user attributes that can be restored by On Demand Recovery.

General

Attribute Name	Description
accountEnabled	*True* if the account is enabled; otherwise, *False*.
ageGroup	The age group of the user.
appRoleAssignments	Represents the app roles a user has been granted for an application.
assignedLicenses	The licenses that are assigned to the user, including inherited (group-based) licenses. This property doesn't differentiate directly-assigned and inherited licenses. **i** **NOTE:** see Assigned Licenses and Plans list below for detailed information on complex attribute.
authorizationInfo	Represents the identifiers that can be used to identify and authenticate a user in non-Entra ID environments.
businessPhones	The telephone numbers for the user.
city	The city in which the user is located.
companyName	The company name which the user is associated. This property can be useful for describing the company that an external user comes from.
consentProvidedForMinor	Sets whether consent has been obtained for minors.
country	The country/region in which the user is located.
department	The name of the department in which the user works.
directReports	The users and contacts that report to the user. (The users and contacts that have their manager property set to this user.)
displayName	The name displayed in the address book for the user. This value is usually the combination of the user's first name, middle initial, and last name.
employeeHireDate	The hire date of an employee within an organization's directory.

Attribute Name	Description
employeeId	The employee identifier assigned to the user by the organization.
employeeOrgData	Represents organization data associated with a user.
employeeType	The employment status of a user.
faxNumber	The fax number of the user.
givenName	The given name (first name) of the user.
identities (B2C only)	Represents the identities that can be used to sign in to this user account.
jobTitle	The user's job title.
mail	The SMTP address for the user.
mailNickname	The mail alias for the user.
manager	The user or contact that is this user's manager.
memberOf	The groups, directory roles and administrative units that the user is a member of.
mobilePhone	The primary cellular telephone number for the user.
officeLocation	The office location in the user's place of business.
otherMails	A list of additional email addresses for the user.
ownedDevices	Devices that are owned by the user.
ownedObjects	Get the list of directory objects that are owned by the user.
passwordPolicies	Specifies password policies for the user.
postalCode	The postal code for the user's postal address. The postal code is specific to the user's country/region.
registeredDevices	Devices that are registered for the user.
roles	Specifies administrator roles assigned to a user.
scopedRoleMemberOf	A scoped-role membership describes a user's membership of a directory role that is further scoped to an Administrative Unit.
state	The state or province in the user's address.
streetAddress	The street address of the user's place of business.
surname	The user's surname (family name or last name).
usageLocation	A two letter country code (ISO standard 3166).
userPrincipalName	The user principal name (UPN) of the user.
userType	A string value that can be used to classify user types in your directory, such as "Member" and "Guest".

Assigned Licenses and Plans

In Microsoft Entra ID licenses and plans are assigned to users to give them access. Licenses and plans can be assigned and unassigned.

When the complex attribute 'assignedLicenses' is selected for restore, the following attributes will also be restored. Individual attributes cannot be selected and are all restored together.

Attribute Name	Description
assignedDateTime (Assigned Plans)	The date and time at which the plan was assigned.
capabilityStatus (Assigned Plans)	Condition of the capability assignment.
disabledPlans	A collection of the unique identifiers for plans that have been disabled.
licenseAssignmentStates	State of license assignments for this user.
service (Assigned Plans)	The name of the service to activate.
servicePlanId (Assigned Plans)	The plan identifier of the service plan to activate.
skuId	The unique identifier for the SKU.
state	Indicate the current state of this assignment.

Hybrid User

Attribute Name	Description
onPremisesDistinguishedName	Contains the on-premises Active Directory distinguished name or DN.
onPremisesDomainName	Contains the on-premises domainFQDN, also called dnsDomainName synchronized from the on-premises directory.
onPremisesExtensionAttributes	Contains extensionAttributes 1-15 for the user.
onPremisesImmutableId	This property is used to associate an on-premises Active Directory user account to their Microsoft Entra user object.
onPremisesSamAccountName	Contains the on-premises samAccountName synchronized from the on-premises directory.
onPremisesSecurityIdentifier	Contains the on-premises security identifier (SID) for the user that was synchronized from on-premises to the cloud.
onPremisesUserPrincipalName	The on-premises UPN of the user.

Entra Groups

The lists below include all supported Microsoft Entra group attributes that can be restored by On Demand Recovery.

General

Attribute Name	Description
appRoleAssignments	Represents the app roles a group has been granted for an application.
assignedLicenses	The licenses that are assigned to the group. **i** **NOTE:** see Assigned Licenses and Plans list below for detailed information on complex attribute.
description	An optional description for the group.
displayName	The display name for the group.
groupLifecyclePolicies	Represents a lifecycle policy for a Microsoft 365 group. A group lifecycle policy allows administrators to set an expiration period for groups.
groupTypes	Specifies the group type and its membership. If the collection contains Unified, the group is a Microsoft 365 group; otherwise, it's either a security group or distribution group. **i** **NOTE:** distribution groups are not supported by On Demand Recovery.
isAssignableToRole	Indicates whether this group can be assigned to a Microsoft Entra role.
mail	The SMTP address for the group.
mailEnabled	Specifies whether the group is mail-enabled.
mailNickname	The mail alias for the group.
memberOf	Groups and administrative units that this group is a member of.
members (Enterprise Applications/Service Principals)	
members (Groups and Directory Roles)	
members (Users)	

Attribute Name	Description
membershipRule	The rule that determines members for this group if the group is a dynamic group.
membershipRuleProcessingState	Indicates whether the dynamic membership processing is on or paused.
owners	The owners of the group.
preferredDataLocation	The preferred data location for the Microsoft 365 group. By default, the group inherits the group creator's preferred data location.
roles	
scopedRoleMemberOf	A scoped-role membership describes a group's membership of a directory role that is further scoped to an Administrative Unit.
securityEnabled	Specifies whether the group is a security group.
theme	Specifies a Microsoft 365 group's color theme.
visibility	Specifies the group join policy and group content visibility for groups. Possible values are: Private, Public, or HiddenMembership.

Assigned Licenses and Plans

Groups can be used in Microsoft Entra ID to assign licenses and plans to large numbers of users or to assign user access to deployed enterprise applications. When a user becomes a member of a group they are automatically assigned the appropriate licenses.

When the complex attribute "AssignedLicenses" is selected to be restored, the following attributes will also be restored. Individual attributes cannot be selected and are all restored together.

Attribute Name	Description
disabledPlans	A collection of the unique identifiers for plans that have been disabled.
skuId	The unique identifier for the SKU.

Hybrid Group

Attribute Name
onPremisesDomainName
onPremisesSamAccountName
onPremisesSecurityIdentifier

Entra Devices

The list below includes all supported Microsoft Entra device attributes that can be restored by On Demand Recovery.

> **i** | **NOTE:** On Demand Recovery supports Microsoft Entra joined and registered devices. On Demand Recovery does not support Hybrid devices.

General

Attribute Name	Description
accountEnabled	*True* if the account is enabled; otherwise, *False*.
alternativeSecurityIds	
approximateLastSignInDateTime	The approximate date and time of the previous sign in of the device.
complianceExpirationDateTime	The timestamp when the device is no longer deemed compliant.
deviceId	Unique Identifier set by Microsoft Entra Device Registration Service at the time of registration. This is an alternate key that can be used to reference the device object.
deviceMetadata	Metadata information of the device.
deviceVersion	Version of the device.
displayName	The display name for the device.
isManaged	*True* if the device is managed by a Mobile Device Management (MDM) app; otherwise, *false*.
memberOf	Groups and administrative units that this device is a member of.
operatingSystem	The type of operating system on the device.
operatingSystemVersion	The version of the operating system on the device.
physicalIds	Physical IDs for the device.
registeredOwners	The user that cloud joined the device or registered their personal device.
registeredUsers	Collection of registered users of the device. For cloud joined devices and registered personal devices, registered users are set to the same value as registered owners at the time of registration.
systemLabels	List of labels applied to the device by the system.

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Service Principals (Enterprise Applications)

The lists below include all supported Enterprise application attributes that can be restored by On Demand Recovery.

General

Attribute Name	Description
accountEnabled	*True* if the service principal account is enabled; otherwise, *False*.
alternativeUrl	A user-friendly URL that will point to the traffic manager.
alternativeNames	Used to retrieve service principals by subscription, identify resource group and full resource ids for managed identities.
appId	The unique identifier for the associated application (its appId property).
applicationProxy	
applicationTemplateId (Gallery App only)	Unique identifier of the applicationTemplate that the servicePrincipal was created from.
appRoleAssignedTo	App role assignments for this app or service, granted to users, groups, and other service principals.
appRoleAssignmentRequired	Specifies whether users or other service principals need to be granted an app role assignment for this service principal before users can sign in or apps can get tokens.
appRoleAssignments	App role assignment for another app or service, granted to this service principal.
appRoles	The roles exposed by the application which this service principal represents.
displayName	The display name of the service principal.
homepage	Home page or landing page of the application.
loginUrl	Specifies the URL where the service provider redirects the user to Microsoft Entra ID to authenticate.
logoutUrl	Specifies the URL that will be used by Microsoft's authorization service to logout an user using OpenId Connect front-channel, back-channel or SAML logout protocols.

Attribute Name	Description
memberOf	Roles that this service principal is a member of.
notificationEmailAddresses	Specifies the list of email addresses where Microsoft Entra ID sends a notification when the active certificate is near the expiration date.
oauth2PermissionGrants	Delegated permission grants authorizing this service principal to access an API on behalf of a signed-in user.
ownedObjects	Directory objects that are owned by the service principal.
owners	Directory objects that are owners of this servicePrincipal. The owners are a set of non-admin users or servicePrincipals who are allowed to modify this object.
preferredSingleSignOnMode	Specifies the single sign-on mode configured for this application.
roles	
samlSingleSignOnSettings	The collection for settings related to saml single sign-on. **i** **NOTE:** see SAML Single Sign-On (SSO) (Service Principals) attributes list below for detailed information on complex attribute.
servicePrincipalNames	Contains the list of identifiersUris, copied over from the associated application.
servicePrincipalType	Identifies if the service principal represents an application or a managed identity. This is set by Microsoft Entra ID internally. For a service principal that represents an application this is set as Application. For a service principal that represent a managed identity this is set as ManagedIdentity.
signinAudience	Specifies the Microsoft accounts that are supported for the current application.
ssoSettings	
tags	Custom strings that can be used to categorize and identify the service principal.
userAttributesAndClaims	The attribute value shows how many attributes/claims were changed. This attribute can be restored if the User Attributes & Claims section was changed or a service principal was permanently deleted.

SAML Single Sign-On (SSO)

SAML Single Sign-On is a mechanism that leverages SAML allowing users to log on to multiple applications after logging into the identity provider. As the user must log in once, SAML SSO provides a faster, seamless user experience.

Attribute Name
relayState

App Role Assignments

Microsoft Entra App Role assignments are used to assign application permissions to users. After a customer signs up to an application an admin for the Microsoft Entra directory assigns users to the roles, thus giving the user permission to the application. When a user signs in, the user's assigned roles are sent as claims.

Attribute Name	Description
appRoleAssignmentRequired	Specifies whether users or other service principals need to be granted an app role assignment for this service principal before users can sign in or apps can get tokens.
displayName (App Role)	Display name for the permission that appears in the app role assignment and consent experiences.
memberOf (Directory Role)	The directory roles that the user is a member of.
memberOf (Groups)	The groups that the user is a member of.

Applications (Application Registrations)

The lists below include all supported application registration attributes that can be restored by On Demand Recovery.

General

Attribute Name	Description
api	Specifies settings for an application that implements a web API. **i** **NOTE:** see API attributes list below for detailed information on complex attribute.
applicationTemplateId	Unique identifier of the applicationTemplate.
appRoles	The collection of roles defined for the application.
defaultRedirectUri	The default redirect URI.
displayName	The display name of the application.
groupMembershipClaims	Configures the groups claim issued in a user or OAuth 2.0 access token that the application expects.
identifierUris	The URIs that identify the application within its Microsoft Entra tenant, or within a verified custom domain if the application is multi-tenant.
info	Basic profile information of the application, such as it's marketing, support, terms of service, and privacy statement URLs. **i** **NOTE:** see Info attributes list below for detailed information on complex attribute.
isFallbackPublicClient	Specifies the fallback application type as public client, such as an installed application running on a mobile device.
optionalClaims	Application developers can configure optional claims in their Microsoft Entra applications to specify the claims that are sent to their application by the Microsoft security token service. **i** **NOTE:** see Optional Claims attributes list below for detailed information on complex attribute.

Attribute Name	Description
owners	Directory objects that are owners of the application
publisherDomain	The verified publisher domain for the application.
requiredResourceAccess	Specifies the resources that the application needs to access. This property also specifies the set of delegated permissions and application roles that it needs for each of those resources. This configuration of access to the required resources drives the consent experience. **i** **NOTE:** see Required Resource Access attributes list below for detailed information on complex attribute.
samlMetadataUrl	The URL where the service exposes SAML metadata for federation.
signInAudience	Specifies the Microsoft accounts that are supported for the current application.
spa	Specifies settings for a single-page application, including sign out URLs and redirect URIs for authorization codes and access tokens. **i** **NOTE:** see Spa attributes list below for detailed information on complex attribute.
tags	Custom strings that can be used to categorize and identify the application.
web	Specifies settings for a web application. **i** **NOTE:** see Web attributes list below for detailed information on complex attribute.

API

Attribute Name	Description
acceptMappedClaims	When *true*, allows an application to use claims mapping without specifying a custom signing key.
knownClientApplications	Used for bundling consent if you have a solution that contains two parts: a client app and a custom web API app.
oauth2PermissionScopes	The definition of the delegated permissions exposed by the web API represented by this application registration.
preAuthorizedApplications	Lists the client applications that are pre-authorized with the specified delegated permissions to access this application's APIs.
requestAccessTokenVersion	Specifies the access token version expected by this resource. This changes the version and format of the JWT produced independent of the endpoint or client used to request the access token.

App Roles

Microsoft Entra Application Roles are used to assign application permissions to users. Application roles are defined by adding them to the application manifest. After a customer signs up to an application an admin for the Microsoft Entra directory assigns users to the roles, thus giving the user permission to the application. When a user signs in, the user's assigned roles are sent as claims.

Attribute Name	Description
allowedMemberTypes	Specifies whether this app role can be assigned to users and groups, to other applications, or both.
appRoles	The collection of roles the application declares.
description	The description for the app role.
displayName	Display name for the permission that appears in the app role assignment and consent experiences.
id	Unique role identifier inside the appRoles collection.
isEnabled	When creating or updating an app role, this must be set to *true* (which is the default).
value	Specifies the value to include in the roles claim in ID tokens and access tokens authenticating an assigned user or service principal.

Info

Attribute Name	Description
logoUrl	CDN URL to the application's logo. Read-only.
marketingUrl	Link to the application's marketing page.
privacyStatementUrl	Link to the application's privacy statement.
supportUrl	Link to the application's support page.
termsOfServiceUrl	Link to the application's terms of service statement.

Optional Claims

Attribute Name	Description
accessToken	The optional claims returned in the JWT access token.
idToken	The optional claims returned in the JWT ID token.
saml2Token	The optional claims returned in the SAML token.

Required Resource Access

Attribute Name	Sub-Attribute Name	
resourceAppId		The unique identifier for the resource that the application requires access to. This should be equal to the appId declared on the target resource application.
resourceAccess	id type	The list of OAuth2.0 permission scopes and app roles that the application requires from the specified resource.

Spa

Attribute Name	Description
redirectUris	Specifies the URLs where user tokens are sent for sign-in, or the redirect URIs where OAuth 2.0 authorization codes and access tokens are sent.

Web

Attribute Name	Sub-Attribute Name	Description
homePageUrl		Home page or landing page of the application.
implicitGrantSettings	enabledAccessTokenIssuance enabledIdTokenIssuance	Specifies whether this web application can request tokens using the OAuth 2.0 implicit flow.
logoutUrl		Specifies the URL that will be used by Microsoft's authorization service to logout an user using front-channel, back-channel or SAML logout protocols.
redirectUris		Specifies the URLs where user tokens are sent for sign-in, or the redirect URIs where OAuth 2.0 authorization codes and access tokens are sent.
redirectUriSettings		Specifies the index of the URLs where user tokens are sent for sign-in. This is only valid for applications using SAML.

Application Proxy

The list below includes all supported Application Proxy attributes that can be restored by On Demand Recovery.

General

Attribute Name	Description
alternateUrl	A user-friendly URL that will point to the traffic manager.
applicationServerTimeout	The duration the connector will wait for a response from the backend application before closing the connection.
externalAuthenticationType	Details the pre-authentication setting for the application. Pre-authentication enforces that users must authenticate before accessing the app.
externalUrl	The address your users will go to in order to access the app from outside your network.
internalUrl	The URL that you use to access the application from inside your private network.
isBackendCertificateValidationEnabled	Indicates whether backend SSL certificate validation is enabled for the application.
isHttpOnlyCookieEnabled	Indicates if the HTTPOnly cookie flag should be set in the HTTP response headers.
isOnPremPublishingEnabled	Indicates if the application is currently being published via Application Proxy or not.
isPersistentCookieEnabled	Indicates if the Persistent cookie flag should be set in the HTTP response headers.
isSecureCookieEnabled	Indicates if the Secure cookie flag should be set in the HTTP response headers.
isTranslateHostHeaderEnabled	If set to true, translates URLs in headers.
isTranslateLinksInBodyEnabled	If set to true, translates URLs in body.
singleSignOnSettings	Represents the single sign-on configuration for the on-premises application.
useAlternateUrlForTranslationAndRedirect	

Connector Group

Attribute Name
name
region

State: Enabled or Disabled

Assignments:

- Users and groups for which the policy is applied

- Cloud applications for which the policy is enabled

- Included/excluded locations

- Device platforms

Access controls:

- Block access

- Grant access (require multifactor authentication, compliant device or domain joined device)

Conditional Access Policy

The list below includes all supported Conditional Access Policy attributes that can be restored by On Demand Recovery.

General

Attribute Name	Description
conditions	Specifies the rules that must be met for the policy to apply.
displayName	Specifies a display name for the conditionalAccessPolicy object.
grantControls	Specifies the grant controls that must be fulfilled to pass the policy.
sessionControls	Specifies the session controls that are enforced after sign-in.
state	Specifies the state of the conditionalAccessPolicy object.

Country Named Location

The list below includes all supported Country Named Location attributes that can be restored by On Demand Recovery.

Attribute Name	Description
countriesAndRegions	List of countries and/or regions in two-letter format specified by ISO 3166-2.
countryLookupMethod	Determines what method is used to decide which country the user is located in.
displayName	Human-readable name of the location.
includeUnknownCountriesAndRegions	*true* if IP addresses that do not map to a country or region should be included in the named location.

IP Named Location

The list below includes all supported IP Named Location attributes that can be restored by On Demand Recovery.

Attribute Name	Description
displayName	Human-readable name of the location.
ipRanges	List of IP address ranges in IPv4 CIDR format (for example, 1.2.3.4/32) or any allowable IPv6 format from IETF RFC5969.
isTrusted	true if this location is explicitly trusted.

Tenant Level Settings

The list below includes all supported tenant level setting attributes that can be restored by On Demand Recovery.]

Directory Settings

Attribute Name	Description
values	Collection of name-value pairs corresponding to the name and defaultValue properties in the referenced directorySettingTemplates object.

External Identities Settings

Attribute Name	Description
allowExternalIdentitiesToLeave	Defines whether external users can leave the guest tenant. If set to false, self-service controls are disabled, and the admin of the guest tenant must manually remove the external user from the guest tenant. When the external user leaves the tenant, their data in the guest tenant is first soft-deleted then permanently deleted in 30 days.
allowDeletedIdentitiesDataRemoval	

Group Lifecycle Policy

Attribute Name	Description
alternateNotificationEmails	List of email address to send notifications for groups without owners. Multiple email address can be defined by separating email address with a semicolon.
groupLifetimeInDays	Number of days before a group expires and needs to be renewed. Once renewed, the group expiration is extended by the number of days defined.
managedGroupTypes	The group type for which the expiration policy applies. Possible values are All, Selected or None.

Group Lifecycle Policy Links

Attribute Name
GroupLifecyclePolicyLinkChange

User Authentication Settings

Attribute Name	Description
selfServiceSignUp	Contains selfServiceSignUpAuthenticationFlowConfiguration settings that convey whether self-service sign-up is enabled or disabled.

User Authorization Settings

Attribute Name	Description
allowedToSignUpEmailBasedSubscriptions	Indicates whether users can sign up for email based subscriptions.
allowedToUseSSPR	Indicates whether administrators of the tenant can use the Self-Service Password Reset (SSPR).
allowEmailVerifiedUsersToJoinOrganization	Indicates whether a user can join the tenant by email validation.
allowInvitesFrom	Indicates who can invite guests to the organization.
allowUserConsentForRiskyApps	Indicates whether user consent for risky apps is allowed. Default value is false.
blockMsolPowerShell	To disable the use of the MSOnline PowerShell module set this property to true. This also disables user-based access to the legacy service endpoint used by the MSOnline PowerShell module. This doesn't affect Microsoft Entra Connect or Microsoft Graph.
defaultUserRolePermissions. allowedToCreateApps	Indicates whether the default user role can create applications. This setting corresponds to the Users can register applications setting in the User settings menu in the Microsoft Entra admin center.
defaultUserRolePermissions. allowedToCreateSecurityGroups	Indicates whether the default user role can create security groups.
defaultUserRolePermissions.	Indicates whether the default user role can create tenants. This setting corresponds to the Restrict non-

Attribute Name	Description
allowedToCreateTenants	admin users from creating tenants setting in the User settings menu in the Microsoft Entra admin center.
defaultUserRolePermissions. allowedToReadBitlockerKeysForOwnedDevice	Indicates whether the registered owners of a device can read their own BitLocker recovery keys with default user role.
defaultUserRolePermissions. allowedToReadOtherUsers	Indicates whether the default user role can read other users.
description	Description of this policy.
displayName	Display name for this policy.
enabledPreviewFeatures	List of features enabled for private preview on the tenant.
guestUserRoleId	Represents role templateId for the role that should be granted to guests.
permissionGrantPolicyIdsAssignedToDefaultUserRole	Indicates if user consent to apps is allowed, and if it is, the app consent policy that governs the permission for users to grant consent.

Administrative Units

The list below includes all supported Administrative units attributes that can be restored by On Demand Recovery.

Attribute Name	Description
description	An optional description for the administrative unit.
displayName	Display name for the administrative unit.
isMemberManagementRestricted	*true* if members of this administrative unit should be treated as sensitive, which requires specific permissions to manage. Default value is false. Use this property to define administrative units whose roles don't inherit from tenant-level administrators, and management of individual member objects is limited to administrators scoped to a restricted management administrative unit. Immutable, so can't be changed later.
members	Direct members of administrative unit, who can be users, devices and groups.
membershipRule	Dynamic membership rule for the administrative unit.
membershipRuleProcessingState	Used to control whether the dynamic membership rule is actively processed. Set to On when you want the dynamic membership rule to be active and Paused if you want to stop updating membership dynamically. If not set, the default behavior is Paused.
membershipType	Membership type for the administrative unit. Can be dynamic or assigned. If not set, the default behavior is assigned.
scopedRoleMembers	Direct members of administrative unit, who can be users, devices and groups.
visibility	Controls whether the administrative unit and its members are hidden or public. Can be set to HiddenMembership or Public. If not set, the default behavior is Public. When set to HiddenMembership, only members of the administrative unit can list other members of the administrative unit.

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