

# Role

Entity - Role Based Access Control - Interrogates the Roles table in the database

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Verb	Request	Notes	Permissions required
GET - all	/Consumer/Roles	Gets list of all Roles	<ul style="list-style-type: none"><li>• Read</li></ul> Returns Unauthorized (401) if user does not have the required permissions.
GET - single	/Consumer/Roles/{roleId}	Gets details for the specified Role ID.  <b>Example Response</b> <pre>{   "Id": 1,   "Name": "Administrators",   "Description": "This role has permissions to everything",   "CreatedTimestampUtc": "2015-09-15T09:45:58.73",   "ModifiedTimestampUtc": "2015-09-15T09:45:58.73" }</pre>	<ul style="list-style-type: none"><li>• Read</li></ul> Returns Unauthorized (401) if user does not have the required permissions.
GET - for a principal	/Consumer/Roles/Principal/{principalId}	Gets all roles for a specific principal	<ul style="list-style-type: none"><li>• Read</li></ul> Returns Unauthorized (401) if user does not have the required permissions.
POST	/Consumer/Roles/Search	<b>Minimum API version 4.0</b>  This endpoint allows searching for roles based on criteria along with sorting and pagination.  <b>Example request</b> <pre>{   "filter": {     "Attribute": "Name",     "Operator": "LIKE",     "Value": "%Administrator%"   },   "start": 10,   "pageSize": 100,   "sort": [     {       "Column": "SystemRole",       "Direction": "DESC"     }   ] }</pre>	Requires 'Read' on 'Security'

POST	/Consumer/Roles	<p>Creates a Role record.</p> <div style="border: 1px solid #ccc; padding: 5px; margin-top: 10px;"> <p><b>Example Request</b></p> <pre>{   "Name": "Administrators",   "Description": "This role has permissions to everything" }</pre> </div>	<ul style="list-style-type: none"> <li>• Write</li> </ul> <p>Returns Unauthorized (401) if user does not have the required permissions.</p>
PUT	/Consumer/Roles	<p>Modifies an existing Role.</p> <div style="border: 1px solid #ccc; padding: 5px; margin-top: 10px;"> <p><b>Example Request</b></p> <pre>{   "Id": 1,   "Name": "Administrators",   "Description": "This role has permissions to everything" }</pre> </div>	<ul style="list-style-type: none"> <li>• Write</li> </ul> <p>Returns Unauthorized (401) if user does not have the required permissions.</p>
DELETE	/Consumer/Roles/{roleId}	<p>Deletes the specified Role if it exists, otherwise "ExceptionMessage": "Role record with Id={roleId} was not found".</p>	<ul style="list-style-type: none"> <li>• Delete</li> </ul> <p>Returns Unauthorized (401) if user does not have the required permissions.</p>
DELETE	/Consumer/Roles	<p><b>Minimum API version 4.0</b></p> <p>Deletes multiple roles.</p> <p>System roles cannot be deleted.</p> <p>Body or the request should contain an array of Role Ids.</p>	<p>Requires 'Delete' on Security</p>
GET	/Consumer/Roles/{id}/ManagementGroups	<p><b>Minimum API version 3.3</b></p> <p>Returns all Management Groups given role has permissions to access</p>	<p>Requires 'Read' on Security</p>

POST	/Consumer/Roles/{roleId}/ManagementGroups/{managementGroupId}	<p><b>Minimum API version 3.3</b></p> <p>Adds permission to use given Management Group to given Role.</p> <ul style="list-style-type: none"> <li>roleId - Id of the Role to which the permission should be granted.</li> <li>managementGroupId - Id of the Management Group to which the permission is granted.</li> </ul> <p>Return payload will contain the Role in question and all Management Groups that Role has permissions on, not only the ones that have been added.</p> <div style="border: 1px solid #ccc; padding: 5px; margin-top: 10px;"> <p><b>Sample Response payload</b></p> <pre> {   "Role": {     "Id": 1,     "Name": "Administrators",     "Description": "This role has permissions to everything",     "CreatedTimestampUtc": "2015-09- 15T09:45:58.73",     "ModifiedTimestampUtc": "2015-09- 15T09:45:58.73"   },   "ManagementGroups": [     {       "Id": "1",       "Name": "Management Group A",       "Description": "",       "Expression": "",       "Count": "12",       "UsableId": "0E9514B6-FD77-4077- 9B54-A2AAA0C1953C",       "HashOfMembers": "5c9f347457272d5edfeb5dd5c0f6fe4e38311b6126908f261 2a1e58d8fb5b754"     }, {       "Id": "2",       "Name": "Management Group B",       "Description": "",       "Expression": "",       "Count": "7",       "UsableId": "AD9514B6-FD77-4077- 9B54-A2AAA0C1953C",       "HashOfMembers": "ddff347457272d5edfeb5dd5c0f6fe4e38311b6126908f261 2a1e58d8fb5bbcc"     }   ] } </pre> </div>	Requires 'Write' on Security
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POST	/Consumer/Roles /ManagementGroups	<p><b>Minimum API version 3.3</b></p> <p>Adds permission to use specified Management Groups to given Role.</p> <div data-bbox="532 218 1159 436" style="border: 1px solid #ccc; padding: 5px;"> <p><b>Sample Request payload</b></p> <pre>{   "RoleId": 1,   "ManagementGroupIds": [1,2,3] }</pre> </div> <p>Return payload will contain the Role in question and all Management Groups that Role has permissions on, not only the ones that have been added.</p> <div data-bbox="532 516 1159 1612" style="border: 1px solid #ccc; padding: 5px;"> <p><b>Sample Response payload</b></p> <pre>{   "Role": {     "Id": 1,     "Name": "Administrators",     "Description": "This role has permissions to everything",     "CreatedTimestampUtc": "2015-09- 15T09:45:58.73",     "ModifiedTimestampUtc": "2015-09- 15T09:45:58.73"   },   "ManagementGroups": [     {       "Id": "1",       "Name": "Management Group A",       "Description": "",       "Expression": "",       "Count": "12",       "UsableId": "0E9514B6-FD77-4077- 9B54-A2AAA0C1953C",       "HashOfMembers": "5c9f347457272d5edfeb5dd5c0f6fe4e38311b6126908f261 2a1e58d8fb5b754"     }, {       "Id": "2",       "Name": "Management Group B",       "Description": "",       "Expression": "",       "Count": "7",       "UsableId": "AD9514B6-FD77-4077- 9B54-A2AAA0C1953C",       "HashOfMembers": "ddff347457272d5edfeb5dd5c0f6fe4e38311b6126908f261 2a1e58d8fb5bbcc"     }   ] }</pre> </div>	Requires 'Write' on Security
DELETE	/Consumer/Roles/{roleId} /ManagementGroups/ {managementGroupId}	<p><b>Minimum API version 3.3</b></p> <p>Removes permission to use given Management Group to given Role.</p> <ul style="list-style-type: none"> <li>• roleId - Id of the Role from which the permission should be removed.</li> <li>• managementGroupId - Id of the Management Group to which the permission is removed.</li> </ul> <p>Return payload is empty.</p>	Requires 'Write' on Security

DELETE	/Consumer/Roles/ManagementGroups	<p><b>Minimum API version 3.3</b></p> <p>Removes the permission to use specified Management Groups form given Role.</p> <div data-bbox="532 239 1159 457" style="border: 1px solid #ccc; padding: 5px;"> <p><b>Sample Request payload</b></p> <pre>{   "RoleId": 1,   "ManagementGroupIds": [1,2,3] }</pre> </div> <p>Return payload is empty.</p>	Requires 'Write' on Security
POST	/Consumer/Roles/Complete	<p>Creates a new role and assigns given permissions and management groups to it</p> <div data-bbox="532 575 1159 1541" style="border: 1px solid #ccc; padding: 5px;"> <p><b>Sample request</b></p> <pre>{   "Name": "Complete Role 1",   "Description": "This is a test role",   "Permissions": [{     "SecurableId": 2,     "SecurableTypeId": 1,     "Allowed": true,     "Operations": [{       "OperationId": 2     }],     {       "OperationId": 4     }],     {       "OperationId": 3     }],     {       "OperationId": 1     }   ] }, {   "SecurableId": 1,   "SecurableTypeId": 1,   "Allowed": true,   "Operations": [{     "OperationId": 1   }],   {     "OperationId": 4   }   ] }],   "ManagementGroupIds": [10,11,12] }</pre> </div> <div data-bbox="532 1562 1159 1953" style="border: 1px solid #ccc; padding: 5px;"> <p><b>Sample response</b></p> <pre>{   "Role": {     "Id": 1018,     "Name": "Complete Role 1",     "Description": "This is a test role",     "CreatedTimestampUtc": "2018-07-25T07:24:50.0139416Z",     "ModifiedTimestampUtc": "2018-07-25T07:24:50.0139416Z",     "SystemRole": false   },   "Permissions": [{</pre> </div>	Requires 'Write' on Security

```
"SecurableId": 1,
"SecurableName": null,
"SecurableTypeId": 1,
"SecurableTypeName": "InstructionSet",
"RoleId": 1018,
"RoleName": "Complete Role 1",
"Allowed": true,
"Operations": [{
  "PermissionId": 1074,
  "OperationId": 1,
  "OperationName": "Viewer",
  "CreatedTimestampUtc": "2018-07-25T07:
24:50.057Z",
  "ModifiedTimestampUtc": "2018-07-
25T07:24:50.057Z"
}],
{
  "PermissionId": 1075,
  "OperationId": 4,
  "OperationName": "Approver",
  "CreatedTimestampUtc": "2018-07-25T07:
24:50.057Z",
  "ModifiedTimestampUtc": "2018-07-
25T07:24:50.057Z"
}]
},
{
  "SecurableId": 2,
  "SecurableName": null,
  "SecurableTypeId": 1,
  "SecurableTypeName": "InstructionSet",
  "RoleId": 1018,
  "RoleName": "Complete Role 1",
  "Allowed": true,
  "Operations": [{
    "PermissionId": 1070,
    "OperationId": 2,
    "OperationName": "Actioner",
    "CreatedTimestampUtc": "2018-07-25T07:
24:50.057Z",
    "ModifiedTimestampUtc": "2018-07-
25T07:24:50.057Z"
  }],
  {
    "PermissionId": 1071,
    "OperationId": 4,
    "OperationName": "Approver",
    "CreatedTimestampUtc": "2018-07-25T07:
24:50.057Z",
    "ModifiedTimestampUtc": "2018-07-
25T07:24:50.057Z"
  }],
  {
    "PermissionId": 1072,
    "OperationId": 3,
    "OperationName": "Questioner",
    "CreatedTimestampUtc": "2018-07-25T07:
24:50.057Z",
    "ModifiedTimestampUtc": "2018-07-
25T07:24:50.057Z"
  }],
  {
    "PermissionId": 1073,
    "OperationId": 1,
    "OperationName": "Viewer",
    "CreatedTimestampUtc": "2018-07-25T07:
24:50.057Z",
    "ModifiedTimestampUtc": "2018-07-
25T07:24:50.057Z"
  }
}]
}],
```

```

"ManagementGroups": [{
  "Id": 10,
  "Name": "Management group number 9",
  "Description": "This is the description
for Management group number 9",
  "Expression": "ADSiteName==Site9",
  "Type": 2,
  "Count": 0,
  "UsableId": "Id-9",
  "HashOfMembers":
"29B9C10CF281F598621A069E8B660AE0D518822C870F94CA4
D28FBA7F04EC944"
},
{
  "Id": 11,
  "Name": "Management group number 10",
  "Description": "This is the description
for Management group number 10",
  "Expression": "ADSiteName==Site10",
  "Type": 2,
  "Count": 0,
  "UsableId": "Id-10",
  "HashOfMembers":
"803B7F61B5FFD589FA88DD89527A0EA6C32BD1C18C8B3796B
26D110AECF6AC12"
},
{
  "Id": 12,
  "Name": "Management group number 11",
  "Description": "This is the description
for Management group number 11",
  "Expression": "ADSiteName==Site11",
  "Type": 2,
  "Count": 0,
  "UsableId": "Id-11",
  "HashOfMembers":
"BA40925847BA8F51113AE9ADE3267F4EF9696BB799B6EBA41
FB3376993664DAE"
}]
}

```

PUT

/Consumer/Roles/Complete

Updates a role and assigns given permissions and management groups.  
Any previous permissions are removed.  
Any previously linked management groups are unlinked.  
Group after update will only have permissions and management groups specified in the request.

Requires 'Write' on Security

### Sample request

```
{
  "Id": 1018,
  "Name": "Complete Role 1",
  "Description": "Updated",
  "Permissions": [{
    "SecurableId": 2,
    "SecurableTypeId": 1,
    "Allowed": true,
    "Operations": [{
      "OperationId": 1
    }]
  }],
  {
    "SecurableId": 1,
    "SecurableTypeId": 1,
    "Allowed": true,
    "Operations": [{
      "OperationId": 1
    }],
    {
      "OperationId": 2
    },
    {
      "OperationId": 3
    },
    {
      "OperationId": 4
    }
  ]
},
  "ManagementGroupIds": [10,20,21]
}
```

### Sample response

```
{
  "Role": {
    "Id": 1018,
    "Name": "Complete Role 1",
    "Description": "This is a role",
    "CreatedTimestampUtc": "2018-07-25T07:24:
50.013Z",
    "ModifiedTimestampUtc": "2018-07-25T13:46:
20.8597827Z",
    "SystemRole": false
  },
  "Permissions": [{
    "SecurableId": 1,
    "SecurableName": null,
    "SecurableTypeId": 1,
    "SecurableTypeName": "InstructionSet",
    "RoleId": 1018,
    "RoleName": "Complete Role 1",
    "Allowed": true,
    "Operations": [{
      "PermissionId": 1143,
      "OperationId": 1,
      "OperationName": "Viewer",
      "CreatedTimestampUtc": "2018-07-25T13:
46:20.907Z",
      "ModifiedTimestampUtc": "2018-07-
25T13:46:20.907Z"
    }],
    {
      "PermissionId": 1144,
      "OperationId": 2,
```



```
        "OperationName": "Actioner",
        "CreatedTimestampUtc": "2018-07-25T13:
46:20.907Z",
        "ModifiedTimestampUtc": "2018-07-
25T13:46:20.907Z"
    },
    {
        "PermissionId": 1145,
        "OperationId": 3,
        "OperationName": "Questioner",
        "CreatedTimestampUtc": "2018-07-25T13:
46:20.907Z",
        "ModifiedTimestampUtc": "2018-07-
25T13:46:20.907Z"
    },
    {
        "PermissionId": 1146,
        "OperationId": 4,
        "OperationName": "Approver",
        "CreatedTimestampUtc": "2018-07-25T13:
46:20.907Z",
        "ModifiedTimestampUtc": "2018-07-
25T13:46:20.907Z"
    }
  ]
},
{
  "SecurableId": 2,
  "SecurableName": null,
  "SecurableTypeId": 1,
  "SecurableTypeName": "InstructionSet",
  "RoleId": 1018,
  "RoleName": "Complete Role 1",
  "Allowed": true,
  "Operations": [{
    "PermissionId": 1142,
    "OperationId": 1,
    "OperationName": "Viewer",
    "CreatedTimestampUtc": "2018-07-25T13:
46:20.907Z",
    "ModifiedTimestampUtc": "2018-07-
25T13:46:20.907Z"
  }
  ]
},
{
  "ManagementGroups": [{
    "Id": 10,
    "Name": "Management group number 9",
    "Description": "This is the description
for Management group number 9",
    "Expression": "ADSiteName==Site9",
    "Type": 2,
    "Count": 0,
    "UsableId": "Id-9",
    "HashOfMembers":
"29B9C10CF281F598621A069E8B660AE0D518822C870F94CA4
D28FBA7F04EC944"
  },
  {
    "Id": 20,
    "Name": "Management group number 19",
    "Description": "This is the description
for Management group number 19",
    "Expression": "ADSiteName==Site19",
    "Type": 2,
    "Count": 0,
    "UsableId": "Id-19",
    "HashOfMembers":
"C1F521A70A60FB5BB3EC348D25D8E4B37DB6844428F9A6902
9D73BE140887C2B"
  },
  {
    "Id": 21,
```

```
"Name": "Management group number 20",
  "Description": "This is the description
for Management group number 20",
  "Expression": "ADSiteName==Site20",
  "Type": 2,
  "Count": 0,
  "UsableId": "Id-20",
  "HashOfMembers":
"BF92D8BA0315CF4C60FDBF0DACE7C864E5C3062D654A3FB25
C434791D380F60C"
  }1
}
```