

Isolation host with KES\KEA

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Documentation:

- [KSC Open API description](#)

Prerequisites

- internal user: api-user

Examples description:

- KSC address - 127.0.0.1 (the address can also be external)
- API Port - 13299 (default)
- User: api-user (internal KSC user), base64: YXBpLXVzZXI=
- Password: password, base64: cGFzc3dvcmQ=
- Credentials:

	User	Password
	api-user	password
Base64:	YXBpLXVzZXI=	cGFzc3dvcmQ=

- Authentication, type: Authenticated session, other types: [KSC Open API description](#)
- Requests are in cUrl and http formats, as an alternative it is also possible to use Python library ([KIAkOAPI Python package](#))

1 Login

1.1 Start connection to KSC (Session::StartSession):

```
curl --location --request POST \
'https://127.0.0.1:13299/api/v1.0/Session.StartSession' \
--header 'Authorization: KSCBasic user="YXBpLXVzZXI=", \
pass="cGFzc3dvcmQ=", internal="1"'
```

Code Block 1 Session::StartSession

Username and password should be encoded to base64 format as part of a secure HTTPS session. For example <https://www.base64encode.org/> can be used for encoding.

```
{
  "PxxRetVal": "nsPbUpPloAVZlM1lODEbg8A=="
}
```

Code Block 2 Response

Use this token in request header

Params Authorization <u>Headers (11)</u> Body ● Pre-request Script Tests Settings		
Headers 9 hidden		
	KEY	VALUE
<input checked="" type="checkbox"/>	X-KSC-Session	nT73+LZA3jDkGJr3O4hVTqg==
<input checked="" type="checkbox"/>	Content-Type	application/json
	Key	Value

2 Find Host

Find host by filter string ([HostGroup::FindHosts](#))

Filter string, contains a condition over [host attributes](#), see also [Search filter syntax](#).

We use "KLHST_WKS_DN" - Host display name

```
POST /api/v1.0/HostGroup.FindHosts HTTP/1.1
Host: localhost:13299
X-KSC-Session: nH4iKWCdxuBJWO5U4ATKSew==
Content-Type: application/json
Content-Length: 170

{
  "vecFieldsToReturn": [
    "KLHST_WKS_HOSTNAME",
    "KLHST_WKS_DN"
  ],
  "lMaxLifeTime": 1200,
  "wstrFilter": "(KLHST_WKS_DN=\\\"WIN10-*\\\")"
}
```

Code Block 3 HostGroup::FindHosts

Response ID

```
{"strAccessor":"ppYe05rmkvKcMUm8vQzOK2","PxxRetVal":18}
```

Code Block 4 Response

Copy Accessor for next request ([ChunkAccessor::GetItemsChunk](#)):

```
curl -L -X POST
"https://127.0.0.1:13299/api/v1.0/ChunkAccessor.GetItemsChunk" -H "X-KSC-
Session: noOxgI9Ny7O5Whg/97qvcVg==" -H "Content-Type: application/json" --
data-raw "{
  \"strAccessor\": \"fb07haDqXIKZbQzyDsMwx1\",
  \"nStart\": 0,
  \"nCount\": 100
}"
```

Code Block 5 ChunkAccessor::GetItemsChunk

Response info about host:

```

{
  "pChunk": {
    "KLCSP_ITERATOR_ARRAY": [
      {
        "type": "params",
        "value": {
          "KLHST_WKS_DN": "WIN10-OPTIMUM-1",
          "KLHST_WKS_HOSTNAME": "c0816918-fbc5-4fbc-8fed-
6f245756120e"
        }
      },
      {
        "type": "params",
        "value": {
          "KLHST_WKS_DN": "WIN10-KES-11-OLD",
          "KLHST_WKS_HOSTNAME": "ab365e11-a1c7-492b-a981-
e84402b33a8f"
        }
      }
    ]
  },
  .....
  "PwgRetVal": 18
}

```

Code Block 6 Response

Copy value "KLHST_WKS_HOSTNAME" for next request

3 KEA Isolation

3.1 HostGroup.GetHostInfo

Acquire specified host attributes. ([HostGroup::GetHostInfo](#))

strHostName	(wstring) host name, a unique server-generated string (see KLHST_WKS_HOSTNAME attribute). It is NOT the same as computer network name (DNS-, FQDN-, NetBIOS-name)
pFields2Return	(array) array of names of host attributes to return. See List of host attributes for attribute names

```
POST /api/v1.0/HostGroup.GetHostInfo HTTP/1.1
Host: localhost:13299
X-KSC-Session: nH4iKWCdxuBJWO5U4ATKSew==
Content-Type: application/json
Content-Length: 185

{
  "strHostName": "ab365e11-a1c7-492b-a981-e84402b33a8f",
  "pFields2Return": [
    "KLHST_WKS_HOSTNAME",
    "KLHST_WKS_DN",
    "KLHST_APP_INFO"
  ]
}
```

Code Block 7 HostGroup.GetHostInfo

Response

```
{ "PkgRetVal": { "KLHST_APP_INFO": { "type": "params", "value": { "1103": { "type": "params", "value": { "1.0.0.0": { "type": "params", "value": { "KLHST_APP_STATE": 3, "KLHST_APP_STATE_TIME": { "type": "datetime", "value": "2022-02-25T16:13:23Z" } } } }, "KES": { "type": "params", "value": { "11.0.0.0": { "type": "params", "value": { "KLHST_APP_STATE": 3, "KLHST_APP_STATE_TIME": { "type": "datetime", "value": "2022-03-04T13:18:24Z" } } } }, "SOYUZ": { "type": "params", "value": { "4.0.0.0": { "type": "params", "value": { "KLHST_APP_STATE": 3, "KLHST_APP_STATE_TIME": { "type": "datetime", "value": "2022-03-04T14:18:25Z" } } } } }, "KLHST_WKS_DN": "WIN10-KES-11-OLD", "KLHST_WKS_HOSTNAME": "ab365e11-a1c7-492b-a981-e84402b33a8f" } }
```

Code Block 8 Response

3.2 HostGroup.SS_GetNames

Get section names from host settings storage. ([HostGroup::SS_GetNames](#))

Parameters values should be taken from previously response

```

POST /api/v1.0/HostGroup.SS_GetNames HTTP/1.1
Host: localhost:13299
X-KSC-Session: nqH6Qma75t/wBcQm8vlyqvQ==
Content-Type: application/json
Content-Length: 148

{
  "strHostName": "ab365e11-a1c7-492b-a981-e84402b33a8f",
  "strType": "SS_SETTINGS",
  "strProduct": "SOYUZ",
  "strVersion": "4.0.0.0"
}

```

Code Block 9 HostGroup::SS_GetNames

Response:

```

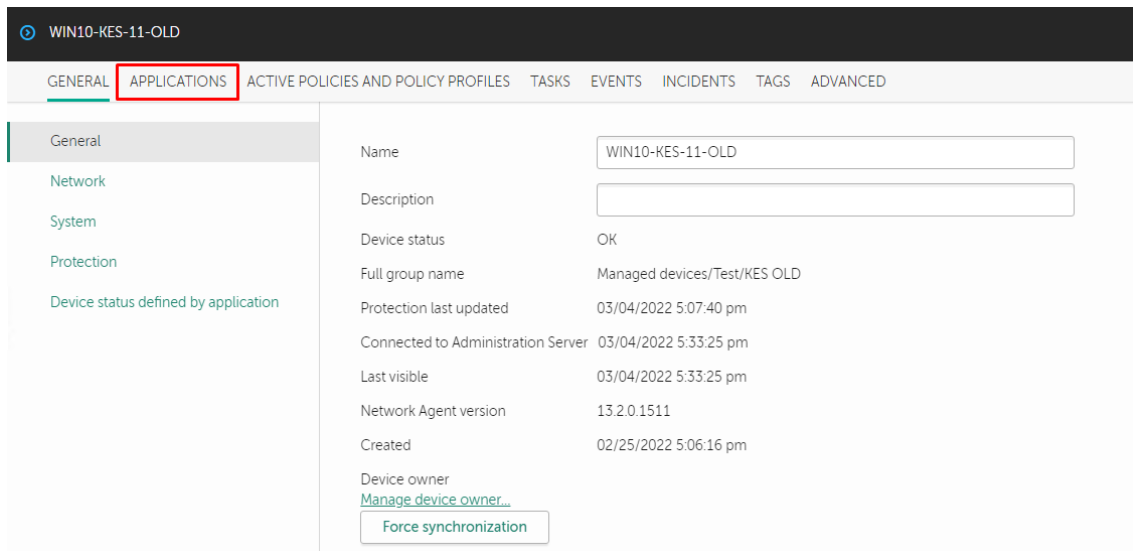
{
  "PxxgRetVal": [
    ".KLNAG_SECTION_REBOOT_REQUEST",
    "85",
    "AccountLogonSettings",
    "ApplicationSettings",
    "AutoStartEntriesNotifySettings",
    "ConnectionSettings",
    "CreateProcessSettings",
    "FileChangeNotificationSettsEdr",
    "KLEVP_NF_SECTION",
    "KsnServiceSettings",
    "LoadImageSettingsEdr",
    "MaintenanceSettings",
    "MdrServiceSettings",
    "MessageBrokerSettings",
    "NetworkConnectionSettingsEdr",
    "NetworkIsolationProfilesSetts",
    "NetworkIsolationSettings", #copy this field setting
    "PasswordSettings",
    "PreventionSettings",
    "ProductPermissionSettings",
    "QuarantineSettings",
    "SandboxSettings",
    "SelfDefenceSettings",
    "UserModeApiMonitorSrvSettings",
    "WMIActivitySettings",
    "WindowsEventLogSettingsEdr",
    "WindowsRegistrySettings"
  ]
}

```

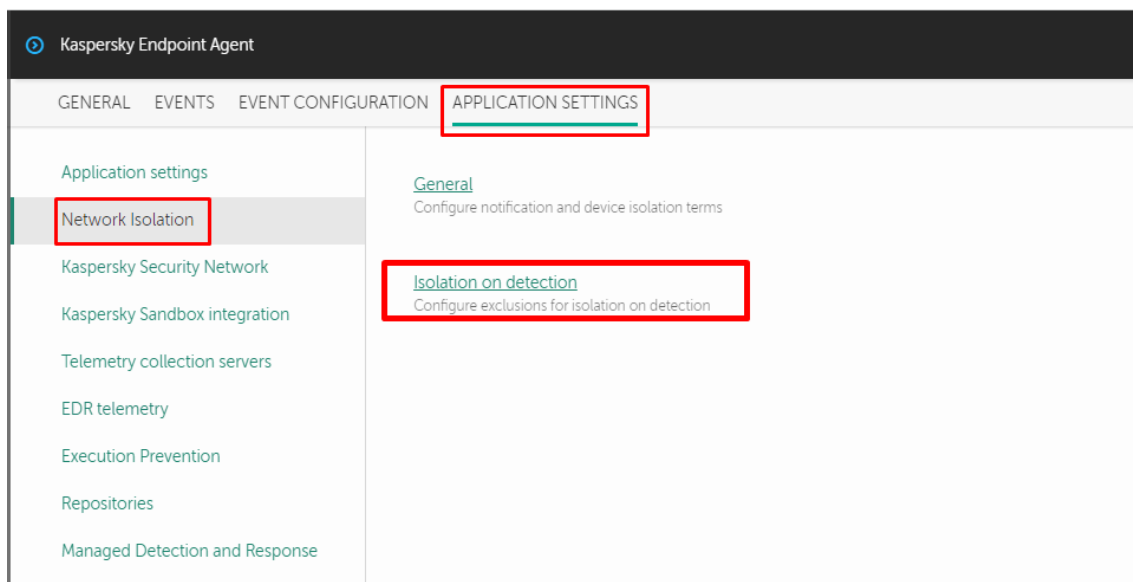
Code Block 10 Response

With NWC web console KSC create local network exteption for VPN:

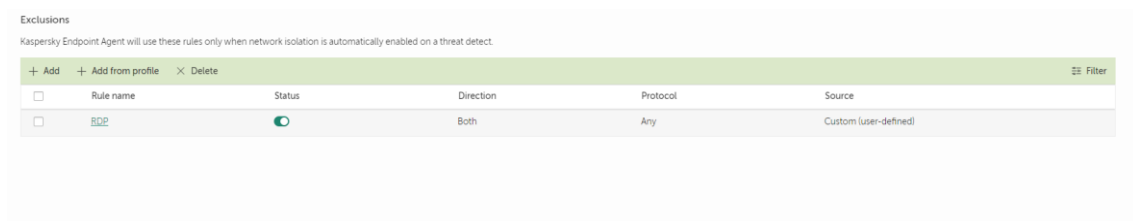
1) Open host properties → Applications → KEA



2) Open tab APP Settings → Network Isolation → Isolation on detection



3) Add rule for RDP → click "OK" → click "Save"



3.3 HostGroup.SS_Read

Read data from host settings storage. (HostGroup::SS_Read)

Parameters values should be taken from two previously responses

```
POST /api/v1.0/HostGroup.SS_Read HTTP/1.1
Host: localhost:13299
X-KSC-Session: nqc+0P0UI+Wzuu+FREB74yQ==
Content-Type: application/json
Content-Length: 194

{
  "strHostName": "ab365e11-a1c7-492b-a981-e84402b33a8f",
  "strType": "SS_SETTINGS",
  "strProduct": "SOYUZ",
  "strVersion": "4.0.0.0",
  "strSection": "NetworkIsolationSettings"
}
```

Code Block 11 HostGroup::SS_Read

Response info about Network Isolation with RDP rule exception:

```

{
  "PkgRetVal": {
    "BaseSettings": {
      "type": "params",
      "value": {
        "Revision": {
          "type": "long",
          "value": 0
        },
        "__VersionInfo": [
          1,
          0
        ]
      }
    },
    "Enable": false,
    "Exclusions": [
      {
        "type": "params",
        "value": {
          "Description": "Custom (user-defined)",
          "Name": "Custom (user-defined)",
          "Rules": [
            {
              "type": "params",
              "value": {
                "AppProtocolName": "RDP",
                "Applications": [],
                "Direction": 3,
                "Enable": true,
                "LocalAddress": "",
                "LocalPort": {
                  "type": "params",
                  "value": {
                    "MaxPort": 3389,
                    "MinPort": 3389,
                    "__VersionInfo": [
                      1,
                      0
                    ]
                  }
                },
                "Protocol": 0,
                "RemoteAddress": "",
                "RemotePort": {
                  "type": "params",
                  "value": {
                    "MaxPort": 0,
                    "MinPort": 0,
                    "__VersionInfo": [
                      1,
                      0
                    ]
                  }
                },
                "UseApplications": false,
                "UseLocalAddress": false,
                "UseLocalPort": true,
                "UseProtocol": false,
                "UseRemoteAddress": false,
                "UseRemotePort": false,
                "__VersionInfo": [
                  1,
                  1
                ]
              }
            }
          ]
        }
      }
    ]
  }
}

```

```

        }
      ],
      "__VersionInfo": [
        1,
        0
      ]
    }
  ],
  "IsolationTimeout": 1800,
  "NotifyUser": true,
  "UseIsolationTimeout": true,
  "__VersionInfo": [
    1,
    2
  ]
}

```

Code Block 12 Response

Copy all response for next request.

3.4 HostGroup.SS_Write

Write data to host settings storage for isolation workstation with RDP rule.
(HostGroup::SS_Write)

1) Use previous value parameters

2) for **nOption** use 7

- 7 - "Clear", replaces existing section contents with pData, i.e. existing section contents will be deleted and variables from pData will be written to the section.

3) for **pSettings** past previous response and change

"Enable": true

```
POST /api/v1.0/HostGroup.SS_Write HTTP/1.1
Host: localhost:13299
X-KSC-Session: nbpsiiOAAxiDWfMSVkgciWQ==
Content-Type: application/json
Content-Length: 1066
```

```
{
  "strHostName": "bdcae680-eeaa-4279-a822-92a0d3e01dfb",
  "strType": "SS_SETTINGS",
  "strProduct": "SOYUZ",
  "strVersion": "4.0.0.0",
  "strSection": "NetworkIsolationSettings",
  "nOption": 7,
  "pSettings": {
    "BaseSettings": {
      "type": "params",
      "value": {
        "Revision": {
          "type": "long",
          "value": 0
        },
        "__VersionInfo": [
          1,
          0
        ]
      }
    },
    "Enable": true, #Isolation ON
    "Exclusions": [
      {
        "type": "params",
        "value": {
          "Description": "Custom (user-defined)",
          "Name": "Custom (user-defined)",
          "Rules": [
            {
              "type": "params",
              "value": {
                "AppProtocolName": "RDP", #custom rule for
RDP
                "Applications": [],
                "Direction": 3,
                "Enable": true,
                "LocalAddress": "",
                "LocalPort": {
                  "type": "params",
                  "value": {
                    "MaxPort": 3389,
                    "MinPort": 3389,
                    "__VersionInfo": [
                      1,
                      0
                    ]
                  }
                },
                "Protocol": 0,
                "RemoteAddress": "",
                "RemotePort": {
                  "type": "params",
                  "value": {
                    "MaxPort": 0,
                    "MinPort": 0,
                    "__VersionInfo": [
                      1,
                      0
                    ]
                  }
                }
              }
            ]
          ]
        }
      }
    ]
  }
}
```

```

    }
  },
  "UseApplications": false,
  "UseLocalAddress": false,
  "UseLocalPort": true,
  "UseProtocol": false,
  "UseRemoteAddress": false,
  "UseRemotePort": false,
  "__VersionInfo": [
    1,
    1
  ]
},
],
"__VersionInfo": [
  1,
  0
]
}
},
],
"IsolationTimeout": 1800,
"NotifyUser": true,
"UseIsolationTimeout": true,
"__VersionInfo": [
  1,
  2
]
}
}
}

```

Code Block 13 HostGroup::SS_Write

Response

```
{ }
```

Code Block 14 Response

Host isolated successful.

For off isolation you must change for **pSettings** past previous response and change
"Enable": false

4 KES Isolation (11.7 and upper)

4.1 FindHost

Find Host with previous method and copy value "KLHST_WKS_HOSTNAME"

For example:

"KLHST_WKS_DN": "KEDRO-1", "KLHST_WKS_HOSTNAME": "a20da5de-49e5-469a-92ea-41b5adb74ea4"

4.2 SrvView

Find srvview data by filter string ([SrvView::ResetIterator](#))

"wstrViewName" - check [List of supported srvviews](#).

"vecFieldsToReturn" - check

<https://support.kaspersky.com/help/KSC/13.1/KSCAPI/a00307.html>

```
POST /api/v1.0/SrvView.ResetIterator HTTP/1.1
Host: localhost:13299
X-KSC-Session: nXo75DRoFMRjNp2jwByKlfg==
Content-Type: application/json
Content-Length: 614

{
  "wstrViewName": "HostTasksSrvView",
  "vecFieldsToReturn": [
    "nState",
    "strTask",
    "TASK_NAME",
    "txtDisplayName",
    "TASKID_PRODUCT_NAME",
    "TASKID_PRODUCT_VERSION",
    "bCannotBeDeleted",
    "bSystem"
  ],
  "vecFieldsToOrder": [
    {
      "type": "params",
      "value": {
        "Name": "TASK_NAME",
        "Asc": "true"
      }
    }
  ],
  "lifetimeSec": 100,
  "pParams": {
    "strHostId": "a20da5de-49e5-469a-92ea-41b5adb74ea4"
  },
  "wstrFilter": ""
}
```

Code Block 15 SrvView::ResetIterator

Response ID

```
{"wstrIteratorId": "67D74142AE0FA1A3D05CD696B957902B"}
```

Code Block 16 Response

GetRecordRange from Response data ([SrvView.GetRecordRange](#)):

```
curl -L -X POST "https://127.0.0.1:13299/api/v1.0/SrvView.GetRecordRange"
-H "X-KSC-Session: noOxgI9Ny7O5Whg/97qvcVg==" -H "Content-Type:
application/json" --data-raw "{
  \"wstrIteratorId\": \"67D74142AE0FA1A3D05CD696B957902B\",
  \"nStart\": 0,
  \"nEnd\": 100
}"
```

Code Block 17 SrvView.GetRecordRange

Response info about tasks:

```
{ "pRecords": { "KLCSP_ITERATOR_ARRAY": [ ..... { "type": "params", "value": { "TA
SKID_PRODUCT_NAME": "KES", "TASKID_PRODUCT_VERSION": "11.0.0.0", "TASK_NAME": "
xdr_networkisolation_start", "bCannotBeDeleted": true, "bSystem": false, "nStat
e": 32, "strTask": "_LOCAL_2212c5ce-c23d-4c55-8bca-
656221d5f056", "txtDisplayName": "Network
isolation" } }, { "type": "params", "value": { "TASKID_PRODUCT_NAME": "KES", "TASKID
_PRODUCT_VERSION": "11.0.0.0", "TASK_NAME": "xdr_networkisolation_stop", "bCan
notBeDeleted": true, "bSystem": false, "nState": 32, "strTask": "_LOCAL_f0395954-
c011-445c-b2e3-0a1074a2cf8d", "txtDisplayName": "Termination of network
isolation" } } ] }
```

Code Block 18 Response

Copy value "strTask" for Task "xdr_networkisolation_start" and "xdr_networkisolation_stop"

For example:

Isolation ON => "TASK_NAME": "xdr_networkisolation_start" "strTask": "_LOCAL_2212c5ce-c23d-4c55-8bca-656221d5f056"

Isolation OFF => "TASK_NAME": "xdr_networkisolation_stop" "strTask": "_LOCAL_f0395954-c011-445c-b2e3-0a1074a2cf8d"

4.3 Isolation ON

4.4 GetHostTasks

Return server specific identity to acquire and manage host tasks. ([HostGroup::GetHostTasks](#))

```
POST /api/v1.0/HostGroup.GetHostTasks HTTP/1.1
Host: localhost:13299
X-KSC-Session: nXo75DRoFMRjNp2jwByKlfg==
Content-Type: application/json
Content-Length: 58

{
  "strHostName": "a20da5de-49e5-469a-92ea-41b5adb74ea4"
}
```

Code Block 19 HostGroup.GetHostTasks

Response:


```
{"PkgRetVal":"8122017D5C4081753E8FDE94244DC1AF"}
```

Code Block 20 Response

4.5 HostTasks

4.5.1 GetTaskData

Acquire task settings. (HostTasks::GetTaskData)

strSrvObjId - server object ID that got from HostGroup.GetHostTasks

strTask - storage identifier of the task (such as returned by HostTasks.AddTask)

```
POST /api/v1.0/HostTasks.GetTaskData HTTP/1.1
Host: localhost:13299
X-KSC-Session: nXo75DRoFMRjNp2jwByKlfg==
Content-Type: application/json
Content-Length: 112

{
  "strTask": "_LOCAL_2212c5ce-c23d-4c55-8bca-656221d5f056",
  "strSrvObjId": "8122017D5C4081753E8FDE94244DC1AF"
}
```

Code Block 21 HostTasks::GetTaskData

Response:

```

{"PkgRetVal":{"EVENT_TYPE":"PRTS_EVENT_NONE","FILTER_EVENTS_COMPONENT_NAME":"","FILTER_EVENTS_INSTANCE_ID":"","FILTER_EVENTS_PRODUCT_NAME":"","FILTER_EVENTS_VERSION":"","TASKID_COMPONENT_NAME":"Connector","TASKID_INSTANCE_ID":"","TASKID_PRODUCT_NAME":"KES","TASKID_VERSION":"11.0.0.0","TASKSCH_FIRST_EXECUTION_TIME":{"type":"datetime","value":"1970-01-01T00:00:00Z"},"TASKSCH_FIRST_EXECUTION_TIME_SEC":0,"TASKSCH_LIFETIME":{"type":"datetime","value":""},"TASKSCH_MS_PERIOD":0,"TASKSCH_RUN_MISSED_FLAG":false,"TASKSCH_TYPE":0,"TASK_ADDITIONAL_PARAMS":{"type":"params","value":{"CompatibilityInfo":{"type":"params","value":{"MinimalPluginVersion":"11.7.0.0"}},"PRTS_TASK_EXT_SCHEDULE_FLAGS":0,"exclusionRules":[{"type":"params","value":{"applications":{"type":"params","value":{"enabled":false,"paths":[]}},"dataSource":1,"localPorts":{"type":"params","value":{"enabled":true,"portRange":[{"type":"params","value":{"end":53,"start":53}}]},"name":"DNS","protocol":{"type":"params","value":{"enabled":true,"id":6},"remoteAddress":{"type":"params","value":{"enabled":false,"ip":{"type":"params","value":{"octets":{"type":"binary","value":""},"zoneIPv6":""}}},"remotePorts":{"type":"params","value":{"enabled":false,"portRange":[]}}},"type":"params","value":{"applications":{"type":"params","value":{"enabled":false,"paths":[]}},"dataSource":1,"localPorts":{"type":"params","value":{"enabled":true,"portRange":[{"type":"params","value":{"end":53,"start":53}}]},"name":"DNS","protocol":{"type":"params","value":{"enabled":true,"id":17},"remoteAddress":{"type":"params","value":{"enabled":false,"ip":{"type":"params","value":{"octets":{"type":"binary","value":""},"zoneIPv6":""}}},"remotePorts":{"type":"params","value":{"enabled":false,"portRange":[]}}},"type":"params","value":{"applications":{"type":"params","value":{"enabled":true,"paths":["%systemroot%\system32\dns.exe"]},"dataSource":1,"localPorts":{"type":"params","value":{"enabled":true,"portRange":[{"type":"params","value":{"end":65535,"start":49152}}]},"name":"Large numbered TCP ports, randomly assigned by the RPC service","protocol":{"type":"params","value":{"enabled":true,"id":6},"remoteAddress":{"type":"params","value":{"enabled":false,"ip":{"type":"params","value":{"octets":{"type":"binary","value":""},"zoneIPv6":""}}},"remotePorts":{"type":"params","value":{"enabled":false,"portRange":[]}}},"type":"params","value":{"applications":{"type":"params","value":{"enabled":true,"paths":["%systemroot%\system32\svchost.exe"]},"dataSource":1,"localPorts":{"type":"params","value":{"enabled":true,"portRange":[{"type":"params","value":{"end":135,"start":135}}]},"name":"RPC Endpoint Mapper","protocol":{"type":"params","value":{"enabled":true,"id":6},"remoteAddress":{"type":"params","value":{"enabled":false,"ip":{"type":"params","value":{"octets":{"type":"binary","value":""},"zoneIPv6":""}}},"remotePorts":{"type":"params","value":{"enabled":false,"portRange":[]}}},"type":"params","value":{"applications":{"type":"params","value":{"enabled":false,"paths":[]},"dataSource":0,"localPorts":{"type":"params","value":{"enabled":false,"portRange":[]},"name":"DNS client","protocol":{"type":"params","value":{"enabled":true,"id":6},"remoteAddress":{"type":"params","value":{"enabled":false,"ip":{"type":"params","value":{"octets":{"type":"binary","value":""},"zoneIPv6":""}}},"remotePorts":{"type":"params","value":{"enabled":true,"portRange":[{"type":"params","value":{"end":53,"start":53}}]}},{"type":"params","value":{"applications":{"type":"params","value":{"enabled":false,"paths":[]},"dataSource":0,"localPorts":{"type":"params","value":{"enabled":false,"portRange":[]},"name":"DNS client","protocol":{"type":"params","value":{"enabled":true,"id":17},"remoteAddress":{"type":"params","value":{"enabled":false,"ip":{"type":"params","value":{"octets":{"type":"binary","value":""},"zoneIPv6":""}}},"remotePorts":{"type":"params","value":{"enabled":true,"portRange":[{"type":"params","value":{"end":67,"start":67}}]}},{"type":"params","value":{"applications":{"type":"params","value":{"enabled":false,"paths":[]},"dataSource":

```

```
:2,"localPorts":{"type":"params","value":{"enabled":true,"portRange":[{"type":"params","value":{"end":67,"start":67}}]}},{"name":"DHCP client","protocol":{"type":"params","value":{"enabled":true,"id":17}},{"remoteAddress":{"type":"params","value":{"enabled":false,"ip":{"type":"params","value":{"octets":{"type":"binary","value":""},"zoneIPv6":""}}}},{"remotePorts":{"type":"params","value":{"enabled":true,"portRange":[{"type":"params","value":{"end":68,"start":68}}]}},{"type":"params","value":{"applications":{"type":"params","value":{"enabled":false,"paths":[]},"dataSource":1,"localPorts":{"type":"params","value":{"enabled":true,"portRange":[{"type":"params","value":{"end":2535,"start":2535}}]}},{"name":"MADCAP","protocol":{"type":"params","value":{"enabled":true,"id":17}},{"remoteAddress":{"type":"params","value":{"enabled":false,"ip":{"type":"params","value":{"octets":{"type":"binary","value":""},"zoneIPv6":""}}}},{"remotePorts":{"type":"params","value":{"enabled":false,"portRange":[]}}},{"type":"params","value":{"applications":{"type":"params","value":{"enabled":false,"paths":[]},"dataSource":1,"localPorts":{"type":"params","value":{"enabled":true,"portRange":[{"type":"params","value":{"end":647,"start":647}}]}},{"name":"DHCP failover","protocol":{"type":"params","value":{"enabled":true,"id":6}},{"remoteAddress":{"type":"params","value":{"enabled":false,"ip":{"type":"params","value":{"octets":{"type":"binary","value":""},"zoneIPv6":""}}}},{"remotePorts":{"type":"params","value":{"enabled":false,"portRange":[]}}}],{"isolationDuration":3600000,"klprts-TaskStorageId":"_LOCAL_2d076fbe-7e60-4a99-9177-173076a5a2b1","ksc_settings_compatibility::TaskUniqueId":"89621cce@xdr_networkisolation_start@NetworkIsolationStart","responseId":{"type":"long","value":7998665773575485050}},{"TASK_CLASS_ID":0,"TASK_DEL_AFTER_RUN_FLAG":false,"TASK_INFO_PARAMS":{"type":"params","value":{"DisplayName":"Network isolation","klprts-TaskCannotBeDeleted":true,"klprts-TaskScheduleSubtype":256}},{"TASK_LAST_EXEC_TIME":{"type":"datetime","value":"1970-01-01T00:00:00Z"},"TASK_LAST_EXEC_TIME_SEC":0,"TASK_MAX_EXEC_TIME":0,"TASK_NAME":"xdr_networkisolation_start","TASK_PREP_START":0,"TASK_PRIORITY":1,"TASK_START_DELTA":0,"TASK_UNIQUE_ID":"_LOCAL_2212c5ce-c23d-4c55-8bca-656221d5f056"}}
```

Code Block 22 Response

Copy some of value from response and change parametrs on next request with Network isolation exclusions

RDP protocol (for example):

```

{
    "type": "params",
    "value": {
        "applications": {
            "type": "params",
            "value": {
                "enabled": true,
                "paths": []
            }
        },
        "dataSource": 2, #inbound and outbound
        "localPorts": {
            "type": "params",
            "value": {
                "enabled": true,
                "portRange": [
                    {
                        "type": "params",
                        "value": {
                            "end": 3389, #port
                            "start": 3389 #port
                        }
                    }
                ]
            }
        },
        "name": "RDP ANY", #name
        "protocol": {
            "type": "params",
            "value": {
                "enabled": true,
                "id": 0 #TCP and UDP
            }
        },
        "remoteAddress": {
            "type": "params",
            "value": {
                "enabled": false,
                "ip": {
                    "type": "params",
                    "value": {
                        "octets": {
                            "type": "binary",
                            "value": ""
                        },
                        "zoneIPv6": ""
                    }
                }
            }
        },
        "remotePorts": {
            "type": "params",
            "value": {
                "enabled": false,
                "portRange": []
            }
        }
    }
}

```

Code Block 23 exclusionRules

4.5.2 UpdateTask

Modify task settings. (HostTasks::UpdateTask)

```
POST /api/v1.0/HostTasks.UpdateTask HTTP/1.1
Host: localhost:13299
X-KSC-Session: n18Zfc+1hPeedqD07uM96/A==
Content-Type: application/json
Content-Length: 32796
```

```
{
  "strTask": "_LOCAL_2212c5ce-c23d-4c55-8bca-656221d5f056",
  "strSrvObjId": "46A9BEBC82C3FB1121050247A0697ECC",
  "pData": {
    "TASKID_COMPONENT_NAME": "Connector",
    "TASKID_PRODUCT_NAME": "KES",
    "TASKID_VERSION": "11.0.0.0",
    "TASKSCH_TYPE": 5,
    "TASK_ADDITIONAL_PARAMS": {
      "type": "params",
      "value": {
        "CompatibilityInfo": {
          "type": "params",
          "value": {
            "MinimalPluginVersion": "11.8.0.0"
          }
        },
        "PRTS_TASK_EXT_SCHEDULE_FLAGS": 0,
        "exclusionRules": [
          {
            "type": "params",
            "value": {
              "applications": {
                "type": "params",
                "value": {
                  "enabled": true,
                  "paths": []
                }
              },
              "dataSource": 2,
              "localPorts": {
                "type": "params",
                "value": {
                  "enabled": true,
                  "portRange": [
                    {
                      "type": "params",
                      "value": {
                        "end": 3389,
                        "start": 3389
                      }
                    }
                  ]
                }
              }
            }
          }
        ],
        "name": "RDP ANY",
        "protocol": {
          "type": "params",
          "value": {
            "enabled": true,
            "id": 0
          }
        },
        "remoteAddress": {
          "type": "params",
          "value": {
            "enabled": false,
            "ip": {
              "type": "params",
              "value": {

```

```

        "octets": {
            "type": "binary",
            "value": ""
        },
        "zoneIPv6": ""
    }
}
},
"remotePorts": {
    "type": "params",
    "value": {
        "enabled": false,
        "portRange": []
    }
}
}
},
],
"isolationDuration":28800000,
"klprts-TaskStorageId":"_LOCAL_2212c5ce-c23d-4c55-8bca-656221d5f056",
"ksc_settings_compatibility::TaskUniqueId":"89621cce@xdr_networkisolation_start@NetworkIsolationStart",
    "responseId":{"type":"long","value":4294967295}}},
    "TASK_CLASS_ID":0,
    "TASK_DEL_AFTER_RUN_FLAG":false,
    "TASK_INFO_PARAMS":
    {"type":"params","value":{
        "DisplayName":"Network isolation",
        "klprts-TaskCannotBeDeleted":true,
        "klprts-TaskScheduleSubtype":512}
    },
    "TASK_NAME":"xdr_networkisolation_start",
    "TASK_PREP_START":0,
    "TASK_PRIORITY":1,
    "TASK_START_DELTA":0,
    "TASK_UNIQUE_ID":"_LOCAL_2212c5ce-c23d-4c55-8bca-656221d5f056"
}
}

```

Code Block 24 HostTasks::UpdateTask

Response

```
{ }
```

Code Block 25 Response

Host isolated successful with allowed RDP session.

4.6 Isolation OFF

For example:

Isolation OFF => "TASK_NAME":"xdr_networkisolation_stop "strTask":"_LOCAL_f0395954-c011-445c-b2e3-0a1074a2cf8d"

4.7 GetHostTasks

Return server specific identity to acquire and manage host tasks. ([HostGroup::GetHostTasks](#))

```
POST /api/v1.0/HostGroup.GetHostTasks HTTP/1.1
Host: localhost:13299
X-KSC-Session: nXo75DRoFMRjNp2jwByKlfg==
Content-Type: application/json
Content-Length: 58

{
  "strHostName": "a20da5de-49e5-469a-92ea-41b5adb74ea4"
}
```

Code Block 26 HostGroup.GetHostTasks

Response:

```
{ "PkgRetVal": "8122017D5C4081753E8FDE94244DC1AF" }
```

Code Block 27 Response

4.8 HostTasks

4.8.1 GetTaskData

Acquire task settings. ([HostTasks::GetTaskData](#))

strSrvObjId - server object ID that got from [HostGroup.GetHostTasks](#)

strTask - storage identifier of the task (such as returned by [HostTasks.AddTask](#))

```
POST /api/v1.0/HostTasks.GetTaskData HTTP/1.1
Host: localhost:13299
X-KSC-Session: nXo75DRoFMRjNp2jwByKlfg==
Content-Type: application/json
Content-Length: 112

{
  "strTask": "_LOCAL_f0395954-c011-445c-b2e3-0a1074a2cf8d",
  "strSrvObjId": "8122017D5C4081753E8FDE94244DC1AF"
}
```

Code Block 28 HostTasks::GetTaskData

Response:


```
{
  "PkgRetVal": {
    "EVENT_TYPE": "PRTS_EVENT_NONE",
    "FILTER_EVENTS_COMPONENT_NAME": "",
    "FILTER_EVENTS_INSTANCE_ID": "",
    "FILTER_EVENTS_PRODUCT_NAME": "",
    "FILTER_EVENTS_VERSION": "",
    "TASKID_COMPONENT_NAME": "Connector",
    "TASKID_INSTANCE_ID": "",
    "TASKID_PRODUCT_NAME": "KES",
    "TASKID_VERSION": "11.0.0.0",
    "TASKSCH_FIRST_EXECUTION_TIME": {
      "type": "datetime",
      "value": "1970-01-01T00:00:00Z"
    },
    "TASKSCH_FIRST_EXECUTION_TIME_SEC": 0,
    "TASKSCH_LIFETIME": {
      "type": "datetime",
      "value": ""
    },
    "TASKSCH_MS_PERIOD": 0,
    "TASKSCH_RUN_MISSED_FLAG": false,
    "TASKSCH_TYPE": 0,
    "TASK_ADDITIONAL_PARAMS": {
      "type": "params",
      "value": {
        "CompatibilityInfo": {
          "type": "params",
          "value": {
            "MinimalPluginVersion": "11.8.0.0"
          }
        },
        "PRTS_TASK_EXT_SCHEDULE_FLAGS": 0,
        "klprts-TaskStorageId": "_LOCAL_f0395954-c011-445c-b2e3-0a1074a2cf8d",
        "ksc_settings_compatibility::TaskUniqueId": "59e0cc70@xdr_networkisolation_stop@NetworkIsolationStop",
        "responseId": {
          "type": "long",
          "value": 4294967295
        }
      }
    },
    "TASK_CLASS_ID": 0,
    "TASK_DEL_AFTER_RUN_FLAG": false,
    "TASK_INFO_PARAMS": {
      "type": "params",
      "value": {
        "DisplayName": "Termination of network isolation",
        "klprts-TaskCannotBeDeleted": true,
        "klprts-TaskScheduleSubtype": 256
      }
    },
    "TASK_LAST_EXEC_TIME": {
      "type": "datetime",
      "value": "1970-01-01T00:00:00Z"
    },
    "TASK_LAST_EXEC_TIME_SEC": 0,
    "TASK_MAX_EXEC_TIME": 0,
    "TASK_NAME": "xdr_networkisolation_stop",
    "TASK_PREP_START": 0,
    "TASK_PRIORITY": 1,
    "TASK_START_DELTA": 0,
    "TASK_UNIQUE_ID": "_LOCAL_f0395954-c011-445c-b2e3-0a1074a2cf8d"
  }
}
```

Code Block 29 Response

Copy some of value from response and change parametrs on next request with Network isolation exclusions

4.8.2 UpdateTask

Modify task settings. (HostTasks::UpdateTask)

```

POST /api/v1.0/HostTasks.UpdateTask HTTP/1.1
Host: localhost:13299
X-KSC-Session: n18Zfc+1hPeedqD07uM96/A==
Content-Type: application/json
Content-Length: 32796

{
  "strTask": "_LOCAL_f0395954-c011-445c-b2e3-0a1074a2cf8d",
  "strSrvObjId": "A06A16B837CC0E73BD3BCCDAA98A3129",
  "pData": {
    "TASKID_COMPONENT_NAME": "Connector",
    "TASKID_PRODUCT_NAME": "KES",
    "TASKID_VERSION": "11.0.0.0",
    "TASKSCH_MS_PERIOD": 0,
    "TASKSCH_TYPE": 5, #change
    "TASK_ADDITIONAL_PARAMS": {
      "type": "params",
      "value": {
        "CompatibilityInfo": {
          "type": "params",
          "value": {
            "MinimalPluginVersion": "11.8.0.0"
          }
        },
        "PRTS_TASK_EXT_SCHEDULE_FLAGS": 0,
        "klprts-TaskStorageId": "_LOCAL_f0395954-c011-445c-b2e3-0a1074a2cf8d",
        "ksc_settings_compatibility::TaskUniqueId":
"59e0cc70@xdr_networkisolation_stop@NetworkIsolationStop",
        "responseId": {
          "type": "long",
          "value": 4294967295
        }
      }
    },
    "TASK_CLASS_ID": 0,
    "TASK_DEL_AFTER_RUN_FLAG": false,
    "TASK_INFO_PARAMS": {
      "type": "params",
      "value": {
        "DisplayName": "Termination of network isolation",
        "klprts-TaskCannotBeDeleted": true,
        "klprts-TaskScheduleSubtype": 512 #change
      }
    },
    "TASK_NAME": "xdr_networkisolation_stop",
    "TASK_PREP_START": 0,
    "TASK_PRIORITY": 1,
    "TASK_START_DELTA": 0,
    "TASK_UNIQUE_ID": "_LOCAL_f0395954-c011-445c-b2e3-0a1074a2cf8d"
  }
}

```

Code Block 30 HostTasks::UpdateTask

Response

```
{ }
```

Code Block 31 Response

Host unblocked successfull.

5 End Session to KSC (Session::EndSession):

```
curl --location --request POST
'https://127.0.0.1:13299/api/v1.0/Session.EndSession' --header 'X-KSC-
Session: nsPbUpPloAVZlM1lODEbg8A==' #PwgRetVal from Session.StartSession
```

Code Block 32 Session::EndSession