

Secure Start REST APIs

GuardPoints

Use the GuardPoint resource to create and manage GuardPoints to protect your data. A DSM administrator of type Security can use this API resource. As of release v6.0.2, the DSM supports Secure Start GuardPoints offered by the v6.0.2 VTE Agent. A Secure Start GuardPoint offers protection for applications that start earlier in the boot sequence than the VTE agent VMD service. For example, Active Directory (AD) and SQL services start earlier in the boot sequence than VMD. A Secure Start GuardPoint starts before the AD and SQL services, and can, therefore, encrypt those services. Refer to the *VTE Agent Installation and Configuration Guide* for more information about Secure Start. The boolean attribute 'earlyAccess' has been added to the GuardPoint resource to indicate whether the Secure Start feature has been enabled on a GuardPoint.

Get GuardPoints with pagination

Description

This endpoint retrieves all GuardPoints, if none of the parameters are specified:

```
GET /dsm/v1/domains/{domainId}/hosts/{hostId}/guardpoints
```

This endpoint retrieves a collection of GuardPoints with configurable matrix and query parameters.

```
GET
/dsm/v1/domains/{domainId}/hosts/{hostId}/guardpoints/{all}{;name1=value1;name2=value2;...}{?offset=...&limit=...&sort=...&order={asc, desc} }
```

Example output

```
{
  "total" : 2,
  "offset" : 0,
  "limit" : 25,
  "list" : [ {
    "id" : 3,
    "url" : "/v1/domains/1000/hosts/1/guardpoints/3",
```

```

"guardPath" : "/scala/",
"guardPointType" : "AUTO_GUARD_DIRECTORY",
"enabled" : true,
"guardStatus" : "UP",
"guardInfo" : {
  "config_state" : "guarded",
  "POLICY_VERSION" : "0",
  "flags" : "0",
  "GUARDED" : "Guarded",
  "reason" : "N/A",
  "statuschk_tm" : "7/21/2015 15:24:13",
  "lock" : "1",
  "policy_name" : "policy2",
  "GUARD_TIME" : "7/21/2015 15:24:13",
  "TYPE" : "1"
},
"autoMountEnabled" : false,
"hostUrl" : "/v1/domains/1000/hosts/1",
"policy" : {
  "id" : 1,
  "url" : "/v1/domains/1000/policies/1",
  "name" : "policy2",
  "description" : "policy2",
  "policyType" : "ONLINE",
  "version" : 0,
  "domainUrl" : "/v1/domains/1000",
  "moreInfo" : true
}
"earlyAccess" : false
}, {
  "id" : 42,
  "url" : "/v1/domains/1000/hosts/1/guardpoints/42",
  "guardPath" : "/xyzblah/",
  "guardPointType" : "AUTO_GUARD_DIRECTORY",
  "enabled" : true,
  "guardStatus" : "UP",
  "guardInfo" : {
    "config_state" : "guarded",
    "flags" : "0",
    "POLICY_VERSION" : "0",
    "GUARDED" : "Guarded",
    "reason" : "N/A",
    "statuschk_tm" : "7/21/2015 15:6:38",
    "lock" : "1",
    "policy_name" : "policy2",

```

```

    "GUARD_TIME" : "7/21/2015 15:6:38",
    "TYPE" : "1"
  },
  "autoMountEnabled" : false,
  "hostUrl" : "/v1/domains/1000/hosts/1",
  "policy" : {
    "id" : 1,
    "url" : "/v1/domains/1000/policies/1",
    "name" : "policy2",
    "description" : "policy2",
    "policyType" : "ONLINE",
    "version" : 0,
    "domainUrl" : "/v1/domains/1000",
    "moreInfo" : true
  }
  "earlyAccess" : false
} ]
}

```

Each GuardPoint in the response list contains the following attributes:

Response attributes

Attribute Name	Data Type	Description
guardPath	String	The path to be guarded
guardPointType	String	Possible GuardPoint types: AUTO_GUARD_DIRECTORY, MANUAL_GUARD_DIRECTORY, AUTO_GUARD_RAW_BLOCK_DEVICE, MANUAL_GUARD_RAW_BLOCK_DEVICE
enabled	Boolean	Indicates whether the GuardPoint is enabled or not.
guardStatus	String	Possible values: UP, DOWN, AGENT_PENDING, SERVER_PENDING, UNAVAILABLE, ERROR
guardInfo	A map of name--value pairs	JSON map representing detailed GuardPoint information.
hostUrl	String	The URL representing the host to which the GuardPoint belongs.
diskGroupName	String	Name of the disk group of this GuardPoint.

Attribute Name	Data Type	Description
autoMountEnabled	Boolean	Indicates whether Auto Mount is enabled or not.
hostGroup	String	The host group to which the GuardPoint belongs.
policy	String	JSON representation of the policy used in the GuardPoint. Attributes of a policy in addition to the common attributes are: > name , > description > policyType (ONLINE or OFFLINE) > version , > domainUrl
earlyAccess	Boolean	Indicates whether the GuardPoint is a Secure Start GuardPoint or not.

Get GuardPoint by ID

Description

This endpoint returns a complete GuardPoint object for a given ID.

```
GET /dsm/v1/domains/{domainId}/hosts/{hostId}/guardpoints/{guardPointId}
```

Example output:

```
{
  "id" : 3,
  "url" : "/v1/domains/1000/hosts/1/guardpoints/3",
  "guardPath" : "/scala/",
  "guardPointType" : "AUTO_GUARD_DIRECTORY",
  "enabled" : true,
  "guardStatus" : "UP",
  "guardInfo" : {
    "config_state" : "guarded",
    "POLICY_VERSION" : "0",
    "flags" : "0",
    "GUARDED" : "Guarded",
    "reason" : "N/A",
    "statuschk_tm" : "7/21/2015 15:24:13",
    "lock" : "1",
    "policy_name" : "policy2",
    "GUARD_TIME" : "7/21/2015 15:24:13",
    "TYPE" : "1"
  },
  "autoMountEnabled" : false,
  "hostUrl" : "/v1/domains/1000/hosts/1",
```

```

"policy" : {
  "id" : 1,
  "url" : "/v1/domains/1000/policies/1",
  "name" : "policy2",
  "description" : "policy2",
  "policyType" : "ONLINE",
  "version" : 0,
  "domainUrl" : "/v1/domains/1000",
  "moreInfo" : true
}
"earlyAccess" : false
}

```

Get GuardPoint by guard path

Description

This endpoint retrieves a list of GuardPoints for a given guard path, host ID, and domain ID.

POST /dsm/v1/domains/{domainId}/hosts/{hostId}/guardpoints/guardpath

Request query parameters

Attribute Name	Data Type	Description	Mandatory
domainId	integer	The domain ID of the domain to which the that host contains the GuardPoint belongs.	Yes
hostId	String	The host ID of the host to which the GuardPoint belongs.	Yes

Request input attributes

Attribute Name	Data Type	Description	Mandatory
path	String	The file path to the location that contains the GuardPoints to be returned. The trailing '/' is required in the path location on Linux or UNIX hosts. Similarly, for windows path locations, a trailing "\\" is required. See examples below.	Yes

Example input payload for Linux/UNIX hosts;

```

{
  "path" : "/test3/"
}

```

Example input payload for Windows hosts;

```
{
  "path" : "c:\\test\\one\\"
}
```

Example output for Linux/UNIX hosts example above;

```
{
  "id" : 3,
  "url" : "/v1/domains/1000/hosts/3/guardpoints/3",
  "guardPath" : "/test3/",
  "guardPointType" : "AUTO_GUARD_DIRECTORY",
  "enabled" : true,
  "guardStatus" : "DOWN",
  "autoMountEnabled" : false,
  "hostUrl" : "/v1/domains/1000/hosts/3",
  "policy" : {
    "id" : 1,
    "url" : "/v1/domains/1000/policies/1",
    "name" : "test-pol",
    "policyType" : "ONLINE",
    "version" : 0,
    "domainUrl" : "/v1/domains/1000",
    "moreInfo" : true
  }
  "earlyAccess" : false
}
```

Example output for Windows hosts example above;

```
{
  "id" : 9,
  "url" : "/v1/domains/1000/hosts/2/guardpoints/9",
  "guardPath" : "c:\\test\\one\\",
  "guardPointType" : "AUTO_GUARD_DIRECTORY",
  "enabled" : true,
  "guardStatus" : "DOWN",
  "autoMountEnabled" : false,
  "hostUrl" : "/v1/domains/1000/hosts/2",
  "policy" : {
    "id" : 1,
    "url" : "/v1/domains/1000/policies/1",
    "name" : "test-pol",
    "policyType" : "ONLINE",
    "version" : 0,
    "domainUrl" : "/v1/domains/1000",

```

```

    "moreInfo" : true
  }
  "earlyAccess" : false
}

```

For an explanation of the response attributes, see the **Response attributes** table in [“Get GuardPoints with pagination”](#).

cURL example for Linux/UNIX

```

curl -s --insecure -X POST -H "Content-type: application/json" --data
'{"path":"/test3/"}' -u dsmadmin:admin123 {http_code}n
https://dsmserver.domain.com/dsm/v1/domains/1000/hosts/3/guardpoints/guardpath

```

cURL example for Windows

```

curl -s --insecure -X POST -H "Content-type: application/json" --data
'{"path":"c:\\test\\one\\"}' -u dsmadmin:admin123 {http_code}n
https://dsmserver.domain.com/dsm/v1/domains/1000/hosts/2/guardpoints/guardpath

```

Create a GuardPoint

Description

This endpoint creates a GuardPoint with a VTE agent for a given host and domain.

```
POST /dsm/v1/domains/{domainId}/hosts/{hostId}/guardpoints
```

Request Attributes

Attribute Name	Data Type	Description	Mandatory
hostId	integer	The host ID representing the host to which the GuardPoint belongs. If not specified, the host ID in the URL is assumed.	No
policyId	String	The policy ID representing the policy used by the host.	Yes
guardPointType	String	Possible types are: AUTO_GUARD_DIRECTORY, MANUAL_GUARD_DIRECTORY, AUTO_GUARD_RAW_BLOCK_DEVICE, MANUAL_GUARD_RAW_BLOCK_DEVICE	Yes
guardPath	String	The path to be guarded	Yes
autoMountEnabled	Boolean	Indicates whether Auto Mount has been enabled.	No
earlyAccess	Boolean	Indicates whether the GuardPoint is Secure Start GuardPoint or not	No

Example input payload to create a GuardPoint:

```
{
  "hostId" : 1,
  "policyId" : 1,
  "guardPointType" : "AUTO_GUARD_RAW_BLOCK_DEVICE",
  "guardPath" : "/importantfiles",
  "autoMountEnabled" : true
}
```

Example input payload to create a Secure Start GuardPoint

```
{
  "hostId" : 1,
  "policyId" : 1,
  "guardPointType" : "AUTO_GUARD_RAW_BLOCK_DEVICE",
  "guardPath" : "/importantfiles",
  "autoMountEnabled" : true,
  "earlyAccess" : true
}
```

Update a Secure Start GuardPoint**Description**

This endpoint updates a GuardPoint, by turning Secure Start on or off.

PUT /dsm/v1/domains/1000/hosts/2/guardpoints

Request Attributes

Attribute Name	Data Type	Description	Mandatory
earlyAccess	Boolean	Indicates whether a GuardPoint is a Secure Start GuardPoint or not	Yes, if you want to update the GuardPoint and enable or disable this feature.

Example input payload:

```
{"earlyAccess": false}
```

Returns

200 if the GuardPoint is successfully updated.

Enable a GuardPoint**Description**

This endpoint enables a GuardPoint. It returns 200 OK with no payload if successful or an error response if an error occurs.

```
PUT
/dsm/v1/domains/{domainId}/hosts/{hostId}/guardpoints/{guardPointId}/enabled
```

Disable a GuardPoint

Description

This endpoint disables a GuardPoint. It returns 200 OK with no payload if successful or an error response if an error occurs.

```
DELETE
/dsm/v1/domains/{domainId}/hosts/{hostId}/guardpoints/{guardPointId}/enabled
```

Delete a GuardPoint

Description

This endpoint deletes a GuardPoint from a host. It returns 200 OK with no payload if successful or an error response if an error occurs.

```
DELETE /dsm/v1/domains/{domainId}/hosts/{hostId}/guardpoints/{guardPointId}
```