

PlateSpin® Transformation Manager 2 REST API Reference

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About This Book and the Library

The *Reference* provides information about the REST API interfaces available for PlateSpin Transformation Manager.

The guide introduces the following minimal information you need to begin working with the APIs:

- Access information for restapi, swaggerui, and swagger.io web interfaces
- Login requirements (PTM username and password)
- Permissions (restricted and enforced as it is in the Web Interface based on roles)
- Links to Swagger UI and Swagger IO vendor documentation
- Usage options (API, URL, and command line)

Refer to the following sections for details:

- Chapter 1, "Overview of the REST APIs," on page 7
- Chapter 2, "Components," on page 19
- Chapter 3, "States and Sub-States," on page 21
- Chapter 4, "Types," on page 25

Intended Audience

This document is intended for users who want to use the PlateSpin Transformation Manager REST API to add, modify, or remove objects and data in the PTM Database, or to perform transactions through a custom client.

Additional Documentation

For the most recent version of this guide and other PlateSpin Transformation Manager documentation resources, visit the PlateSpin Transformation Manager 2 Documentation website (https://www.microfocus.com/documentation/platespin/platespin-transformation-manager-2/).

Feedback

We want to hear your comments and suggestions about this book and the other documentation included with this product. You can use the comment on this topic link at the bottom of any HTML page of the online English documentation.

Contact Information

For specific product issues, contact Micro Focus Support at https://support.microfocus.com/contact/.

Additional technical information or advice is available from several sources:

 Product information and resources: https://www.microfocus.com/products/platespin/ transformation-manager/

- Micro Focus Customer Center: https://www.microfocus.com/customercenter/
- Product Knowledge Base and Videos: https://www.microfocus.com/support-and-services/
- Micro Focus Communities: https://www.microfocus.com/communities/
- PlateSpin Idea Exchange: https://community.softwaregrp.com/t5/PlateSpin-Idea-Exchange/idb-p/PlateSpin_Ideas/

Overview of the REST APIs

PlateSpin Transformation Manager acts as a central repository for a project's transformation plans and workloads data. Its REST (Representational State Transfer) interface provides programmatic access to read project data and to write transformation data.

- "REST API Query Methods" on page 7
- "Accessing the REST API Documentation" on page 7
- "Navigating the API Documentation" on page 8
- "HTTP Status Codes" on page 15
- "Generating a REST Client for the APIs" on page 16

REST API Query Methods

You can use the following query methods:

- HTTP request URL
- Curl command line requests
- API calls

The REST service returns the guery response in JSON format.

Accessing the REST API Documentation

The PlateSpin Transformation Manager REST API is available to anyone with a user account in PlateSpin Transformation Manager. For full privileges, the user should be a member of the Administrators group. Use the Web Interface to create a user account for your software developer. See PTM 2 Administrator Guide.

NOTE: Permissions to view results of a trial command is restricted and enforced as it is in the Web Interface based on roles for the user account of the logged-in user.

1 Launch a supported web browser, then go to either of the following URLs:

```
https://<platespin_server_ip_address_or_dns_name>:8183/restapi
```

https://<platespin_server_ip_address_or_dns_name>:8183/swaggerui

These web locations are also available using HTTP and port 8182, if you have enabled the HTTP protocol for your PTM Appliance.

2 When you are prompted for login credentials, enter your PlateSpin Transformation Manager user name and password.

For information about creating user accounts in PlateSpin Transformation Manager, see "Creating a User" in the *PTM 2 Administrator Guide*.

Navigating the API Documentation

The PlateSpin Transformation Manager REST API interactive console uses the open source Swagger UI tool to provide documentation about its APIs. You can learn about the APIs and interact with the REST service to try them.

- "Viewing API Categories" on page 8
- "Viewing Operations" on page 9
- "Trying Queries" on page 14

Viewing API Categories

The REST APIs are grouped according to product components in the following categories:

- applications
- batches
- cloudlocations
- clusterhosts
- clusters
- connectors
- credentials
- dependencies
- environments
- migrationservers
- networks
- operatingsystems
- organizations
- platforms
- preimages
- processes
- projects
- repositories
- resourcegroups
- resourcelimits
- subnets
- system
- transformations

- types
- waves

Viewing Operations

In the interactive API console, select one of the following options to expand a category and view the operations available:

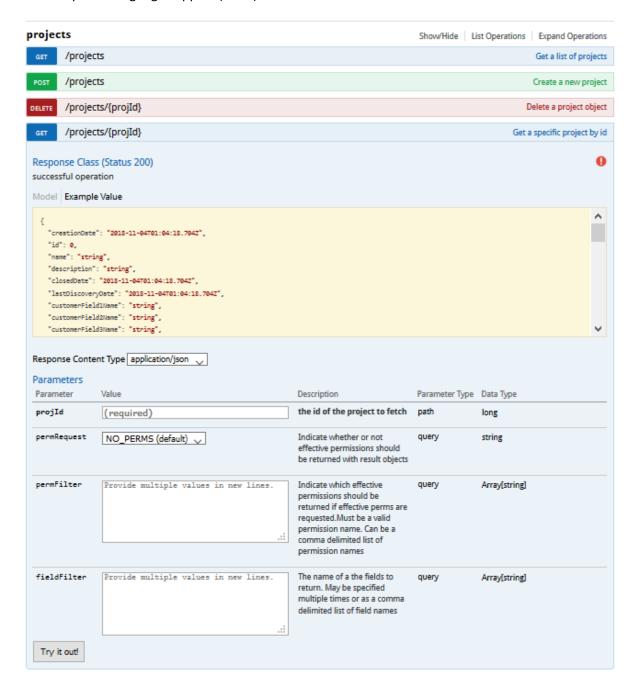
- **Show/Hide:** Expands the API category to show a list of member operations, or collapses the API category.
- List Operations: Expands the API category to show a list of member operations.
- **Expand Operations:** Expands the API category and each of the member operations.

The list view shows the operation type (Get, Post, Put, Delete), the command, and a brief definition for each operation.

/transformations /transformations /transformations /transformations /transformations /transformations /transformations /transformations/deleted Gets an abbreviated list of all transformations that are in a pending delete state attransformations/vehidrawy Gets an abbreviated list of all transformations that are in a pending delete state attransformations/cancelled Gets an abbreviated list of all transformations that are in a pending delete state attransformations/cancelled Gets an abbreviated list of all transformations that are in a cancel pending state curry /transformations/(trinid) Delete a transformations/trinid) Retrieve a complete transformations that are in a cancel pending state attransformations/trinid) Retrieve a complete transformation using a nigrate server workload id Attransformations/trinid/sourcediscoverydata Retrieve a complete transformation using a nigrate server workload id Attransformations/trinid/sourcediscoverydata Retrieve the discovery data from the source workload on a transformation Attransformations/(trinid)/sprocessing Retrieve the discovery data from the source workload on a transformation Attransformations/(trinid)/sprocessing Retrieve the processing flag for a transformation Attransformations/(trinid)/sprocessing Set a transformation's processing flag Attransformations/(trinid)/septrocessing Attransformations/(trinid)/septrocessing Attransformations/(trinid)/septrocessing Attransformations/(trinid)/clearroncel Attransformations/(trinid)/clearroncel Attransformations/(trinid)/clearroncel Attransformations/(trinid)/clearroncel Attransformations/(trinid)/clearroncel Attransformations/(trinid)/clearroncel Attransformations/(trinid)/clearroncel Attransformations/(trinid)/clearroncel Attransformations/(trinid)/transformationsubphase Update the transformation pub-phase of an existing transformation Attransformations/(trinid)/transformationsubphase Update the transformation pub-phase of an existing transformation Attransformations/(trinid)/connectordisco	transf	ormations	Show/Hide List Operations Expand Operations
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/transformations/{tmid}/processes /transformations/{tmid}/processes /transformations/{tmid}/processes /transformations/{tmid}/connectordiscoverystatus /transformations/{tmid}/connectordiscoverystatus /transformations/{tmid}/connectordiscoverystatus /transformations/{tmid}/connectordiscoverystatus /transformations/{tmid}/connectordiscoverystatus /transformations/{tmid}/connectordiscoverystatus /transformations/{tmid}/connectordiscoverystatus /transformations/{tmid}/runreachability /transformations/{tmid}/setreachability	PUT	$/ transformations / \{tmid\} / transformation subphase details$	Update the transformation sub-phase detail (additional information)
/transformations/{tmid}/processes Create a new process for a transformation PUT /transformations/{tmid}/connectordiscoverystatus Create a new process for a transformation Remove a connector discovery status object from a transformation Get discovery status of connectors for a transformation PUT /transformations/{tmid}/connectordiscoverystatus Cet the discovery status for a connector POST /transformations/{tmid}/runreachability Notify other connectors to try to run reachability for a transformation POST /transformations/{tmid}/setreachability Set the reachability for a connector to a workload	PUT	/transformations/{tmid}/integration-retry	Set the integration retry value
Transformations/{tmid}/connectordiscoverystatus Remove a connector discovery status object from a transformation /transformations/{tmid}/connectordiscoverystatus Get discovery status of connectors for a transformation /transformations/{tmid}/connectordiscoverystatus Set the discovery status for a connector /transformations/{tmid}/runreachability Notify other connectors to try to run reachability for a transformation /transformations/{tmid}/setreachability Set the reachability for a connector to a workload	GET	/transformations/{tmid}/processes	Get all processes for a transformation
/transformations/{tmid}/connectordiscoverystatus /transformations/{tmid}/connectordiscoverystatus /transformations/{tmid}/connectordiscoverystatus Set the discovery status for a connector /transformations/{tmid}/runreachability Notify other connectors to try to run reachability for a transformation /transformations/{tmid}/setreachability Set the reachability for a connector to a workload	POST	/transformations/{tmid}/processes	Create a new process for a transformation
PUT /transformations/{tmid}/connectordiscoverystatus Set the discovery status for a connector POST /transformations/{tmid}/runreachability Notify other connectors to try to run reachability for a transformation POST /transformations/{tmid}/setreachability Set the reachability for a connector to a workload	DELETE	/transformations/{tmid}/connectordiscoverystatus	Remove a connector discovery status object from a transformation
/transformations/{tmid}/runreachability Notify other connectors to try to run reachability for a transformation /transformations/{tmid}/setreachability Set the reachability for a connector to a workload	GET	/transformations/{tmid}/connectordiscoverystatus	Get discovery status of connectors for a transformation
/transformations/{tmid}/setreachability	PUT	/transformations/{tmid}/connectordiscoverystatus	Set the discovery status for a connector
	POST	/transformations/{tmid}/runreachability	Notify other connectors to try to run reachability for a transformation
POST /transformations/{tmid}/match Notify other connectors to try to match a transformation	POST	/transformations/{tmid}/setreachability	Set the reachability for a connector to a workload
	POST	/transformations/{tmid}/match	Notify other connectors to try to match a transformation

Expand an operation to view the following information about the operation:

- Query method (GET, POST, PUT)
- Model schema
- Query parameters (as appropriate)
- Request definition and limitations
- Response format
- Response language support (JSON)



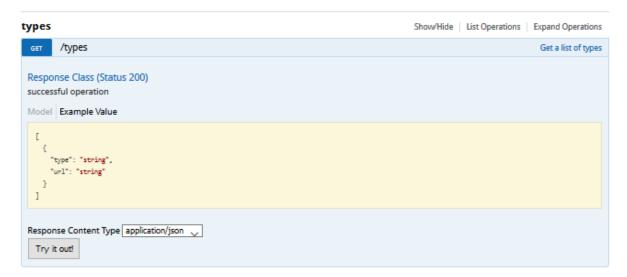
Most operations will have parameters that refine the query. An expanded operation view includes a list of parameters, the default values for them, and a brief description of the parameter. The following example shows the parameters for a /project query.

Parameters				
Parameter	Value	Description	Parameter Type	Data Type
offset		The number of objects to skip at the beginning of the entire object set	query	integer
limit	250	The maximum number of objects to return. This number cannot be greater than 250	query	integer
sortField		name of the field to sort on	query	string
sortOrder		The sort order for the results	query	string
searchString		Value to search for within the fields specified in searchField	query	string
searchField	Provide multiple values in new lines.	A field to search within for the search string. May be specified multiple times or as a comma delimited list of search field names	query	Array[string]
permRequest	NO_PERMS (default) 🜷	Indicate whether or not effective permissions should be returned with result objects	query	string
permFilter	Provide multiple values in new lines.	Indicate which effective permissions should be returned if effective perms are requested. Must be a valid permission name. Can be a comma delimited list of permission names	query	Array[string]
fieldFilter	Provide multiple values in new lines.	The name of a the fields to return. May be specified multiple times or as a comma delimited list of field names	query	Array[string]

Trying Queries

You can try an API to generate the proper command. Specify values for any required parameters, then click Try it out.

The following example shows the $/ {\tt types}$ operation that does not have parameters.



Click **Try it out!** to generate the corresponding query as a Curl command and an HTTP request URL It also includes the command response body, code, and headers.

```
Curl
  curl -X GET --header 'Accept: application/json' 'https://151.155.187.71:8183/restapi/types'
Request URL
  https://151.155.187.71:8183/restapi/types
Response Body
    Ε
          "type": "Architecture",
         "url": "https://151.155.187.71:8183/restapi/architectures"
          "type": "DiskCopyMethod",
          "url": "https://151.155.187.71:8183/restapi/diskcopymethods"
          "type": "Health",
          "url": "https://151.155.187.71:8183/restapi/healths"
          "type": "MigrationServerType",
          "url": "https://151.155.187.71:8183/restapi/migrationservertypes"
          "type": "OSFamily",
Response Code
Response Headers
  {
   "content-length": "1019",
   "content-type": "application/json",
   "server": "Jetty(9.3.20.v20170531)*,
   "-t-i-t-transport-security": "max-ag
     server: "Jetty(9.5.20.v20170531)",
"strict-transport-security": "max-age=2592000; includeSubDomains",
"vary": "Accept-Encoding, User-Agent",
"x-content-type-options': "nosniff",
"x-frame-options": "SAMEORIGIN",
"x-rss-protection": "1"
```

HTTP Status Codes

PlateSpin Transformation Manager uses standard HTTP Status Codes to indicate the status of the executed operations. The available status codes are described by RFC 7231 (http://tools.ietf.org/html/rfc7231#section-6) and in the IANA HTTP Status Code Registry (http://www.iana.org/assignments/http-status-codes/http-status-codes.xhtml).

Generating a REST Client for the APIs

PlateSpin Transformation Manager is compliant with the *OpenAPI Specification* (http://swagger.io/specification/), formerly known as the *Swagger RESTful API Documentation Specification*. You can use the open source Swagger Editor (http://editor.swagger.io) to generate a REST client in your language of choice.

- "PTM Client Used by PlateSpin Migrate Connector" on page 16
- "Generating a Custom PTM Client from the PTM REST API" on page 16

PTM Client Used by PlateSpin Migrate Connector

The PTM Client used by PlateSpin Migrate Connector is available in the ptmclient.zip file on the PlateSpin Transformation Manager Appliance in the <connector-path>\resources\ folder.

Generating a Custom PTM Client from the PTM REST API

The PTM REST API leverages the Swagger framework to present descriptions for its REST APIs. Swagger is built around the OpenAPI Specification (OAS). You can use Swagger tools to generate a client to "talk" to PTM. That is, your client sends a request to PTM and PTM responds with the requested information. Swagger supports a variety of programming languages.

The PTM RESTAPI interface is available on your PTM server at the following URL:

http://<your-ptmserver-ip-address-or-fqdn>:8082/restapi

For example: http://10.10.10.10:8082/restapi



The basic workflow for generating a PTM client:

1 In a web browser, go to

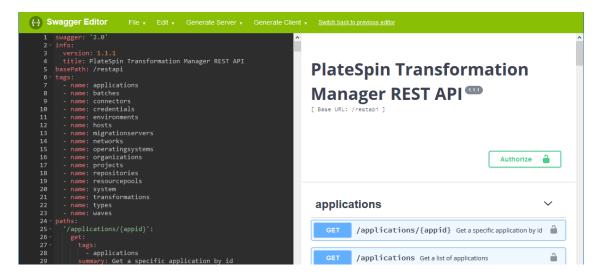
http://<your-ptmserver-ip-address-or-fqdn>:8082/restapi/swagger.json

2 Click Raw Data to expand the code.

```
JSON
       Raw Data
                  Headers
Save Copy Pretty Print
 "swagger": "2.0",
 "info": {
   "version": "1.1.1",
   "title": "PlateSpin Transformation Manager REST API"
 },
 "basePath": "/restapi",
 "tags": [
     "name": "applications"
   },
   {
      "name": "batches"
   },
   {
     "name": "connectors"
   },
   {
     "name": "credentials"
   },
   {
      "name": "environments"
   },
```

- **3** Click **Copy** to save the information to your computer clipboard.
- 4 In a web browser, go to the Swagger Editor website at http://editor.swagger.io.
- 5 In the Swagger Editor toolbar, select File > Clear editor.
- 6 Right-click in the editing panel on the left, then click Paste to insert the information you copied.
- 7 Click OK to agree to convert the code from JSON to YAML.

The PlateSpin Transformation Manager REST API with REST commands and syntax display in the right panel.



- This is the same type of information displayed when you visit the REST API location on your PlateSpin Transformation Manager server at http://<your-ptmserver-ip-address-or-fqdn>:8082/restapi.
- **8** In the Swagger Editor toolbar, select **Generate Client > Python** to download a client written in Python.
 - Our example code is written in Python. Swagger Editor supports over 50 other languages that you can use for the client interface you develop.
- 9 In the pop-up dialog, select Save File then click OK to save the a ZIP file that contains the generated Python client (python-client-generated.zip).

7 Components

The developer documentation presented in the /restapi location provides information about how to use the various product components. Refer to the product documentation for information about the concepts each represents.

Table 2-1 Conceptual Descriptions for Product Components

Component	For a conceptual description, see the following:
applications	"About Applications" in the PTM User Guide.
batches	"About Batches" in the PTM User Guide.
cloudlocations	"About Azure Cloud Locations" in the PTM User Guide.
clusterhosts	"About VMware Cluster Hosts" in the PTM User Guide.
clusters	"About VMware Clusters" in the PTM User Guide.
connectors	"PlateSpin Migrate Connector" in the PTM Installation Guide.
credentials	"About Waves" in the PTM User Guide.
credentials	"About Credentials Resources" in the PTM User Guide.
dependencies	Not available in the current release.
environments	"About Environment Resources" in the PTM User Guide.
environments	"About Environment Resources" in the PTM User Guide.
migrationservers	"About Migration Server Resources" in the PTM User Guide.
networks	"About Network Resources" in the PTM User Guide.
operatingsystems	"About Operating System Types" in the PTM Installation Guide.
organizations	"About Organizations" in the PTM Installation Guide.
platforms	"About Platforms" in the PTM User Guide.
preimages	Not available in the UI.
processes	Not available in the UI.
projects	"About Projects" in the PTM User Guide.
repositories	"About Datastore Resources" in the PTM User Guide.
resourcelimits	Not available in the UI.
resourcepools	"About Resource Pool Resources" in the PTM User Guide.
subnets	"About Subnet Resources" in the PTM User Guide.
system	Not available in the UI.

Component	For a conceptual description, see the following:
transformations	"About theWorkload Dialog" in the PTM User Guide.
types	Chapter 4, "Types," on page 25
waves	"About Waves" in the PTM User Guide.

3 States and Sub-States

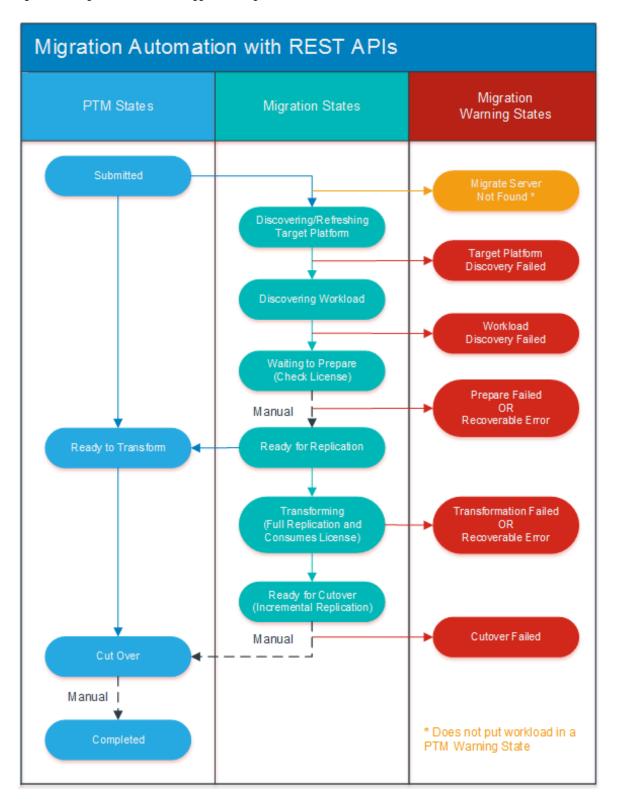
The Transformation Update API accepts sub-states from the PlateSpin Migrate Server, as shown in Table 3-1. The reported sub-state appears in the Status column of the Workloads list. A Warning condition overrides the display of the sub-state.

Table 3-1 Sub-states Reported through the Transformation Update API from the PlateSpin Migrate Server

Transformation Sub-State	Description
MIGRATE_SERVER_NOT_CONFIGURED	The PlateSpin Migrate Server is not yet available on the replication network.
NOT_CONFIGURED	The PlateSpin Migrate Server does not know about the workload.
DISCOVERING_WL	The PlateSpin Migrate Server has been told to go discover one of our workloads (2 to 15 minutes).
WL_DISCOVERED	The PlateSpin Migrate Server has finished the workload discovery process.
DISCOVER_TARGET_HOST	The PlateSpin Migrate Server does not yet have the information for the target host. Discovery is in progress.
DISCOVER_WAIT	The target host is a physical machine. The user needs to insert the LRD CD and register the host with the PlateSpin Migrate Server.
TARGET_HOST_DISCOVERED	The PlateSpin Migrate Server has the necessary information for the target host.
MIGRATE_SERVER_INSUFFICIENT_LICENSES	The PlateSpin Migrate Server has no license available to configure this workload.
WL_NOT_CONFIGURED	The PlateSpin Migrate Server has discovered the workload, but the destination workload details have not yet been defined.
CONFIGURE_FAILED	Failure occurred while configuring the workload in the PlateSpin Migrate Server.
PREPARE_FAILED	Failure occurred while preparing the migration environment to begin replicating the workload.
READY_TO_REPLICATE	All discovery work for the workload is complete. The PlateSpin Migrate Server is waiting to perform the first full replication.
INITIAL_REPLICATION	The PlateSpin Migrate Server is performing the first, full replication of the workload. This might take many hours to complete.

Transformation Sub-State	Description		
INCREMENTAL_REPLICATION	The PlateSpin Migrate Server is performing a smaller, incremental replication of the workload. Incremental replications can occur only after a successful full replication.		
	Incremental replications are fast for Block and Block with Driver disk copy methods. Incremental replications for the File disk copy method might take as long as a full replication.		
INCREMENTAL_REPLICATION_WAIT	The PlateSpin Migrate Server cannot perform incremental replications while the workload is in the Pre-Cutover Testing state.		
CUTOVER_IN_PROGRESS	The cutover process has started. The process can take between 5 minutes and several hours.		
CUTOVER_FAILED	The cutover process failed. This is a severe error.		

Figure 3-1 Migration States that Trigger Warnings in PTM



4 Types

These APIs present information about the supported types for a variety of components.

Table 4-1

Туре	Menu Location in the Web Interface or Bulk Import Spreadsheet
Architectures	Configuration > Operating Systems > Create > Architecture
	Configuration > Operating Systems > [Select OS] > Edit > Architecture
Disk Copy Methods	Planning > Workloads > Bulk Edit > Disk Copy Method
	Planning > Workloads > [Select workload] > Edit > Transformation Plan > Edit > Disk Copy Method
Healths	Planning > Workloads > Advanced Search > Health
Migration Server Type	Resources > Migration Servers > Create
	Resources > Migration Servers > Edit
OS Family	Configuration > Operating Systems > Create
	Configuration > Operating Systems > Edit
Transformation Method	Planning > Workloads > Bulk Edit > Transform Method
	Planning > Workloads > Edit > Transformation Plan > Edit > Transformation Method
Transformation Phase	Planning > Workloads > Bulk Status Change > Next Phase
	Planning > Workloads > [Select workload] > Edit > [Next Phase buttons]
Transformation SubPhase	Planning > Workloads > [Select workload] > Advanced Search > Sub Status
User Roles	Users > Create or Edit > Membership and Access
Volume Type	Planning > Workloads > [Select workload] > Edit > Storage > Edit > Volumes > [Select volume] > Volume Type