ITA Automation API Documentation

Release 0.0.1

uinnova

January 29, 2016

Contents

1 Introduce 1

2 Contents 3

2.1 JSON 3

2.2 API Reference 3

CHAPTER 1

Introduce

The topics in this section discuss the ITA Automation RESTful API. The following topics are included:

- *API Concepts*
- *API Reference*.

The API is a RESTful web service; that is, it conforms to the architectural principles of Representational State Transfer (REST). Its RESTful architecture features a straightforward, easy-to-use interface facilitated by standard HTTP request and response messages that carry *JSON format* payloads.

CHAPTER 2

Contents

2.1 JSON

The body of an HTTP request or response message is a document written in JavaScript Object Notation (JSON), which is a lightweight, text-based data interchange format. Although it has its roots in JavaScript, JSON is language independent and uses simple data structures. You can learn more about JSON and find JSON parsers for many languages at .. JSON.org: http://json.org . JSON parsers provide serialization and deserialization methods that make encoding and decoding the messages easier.

2.1.1 Elements of JSON documents

A JSON document represents one serialized object or array that is delineated as follows:

- An object is a comma-separated series of name-value pairs enclosed in braces.
- An array is a comma-separated series of values enclosed in brackets.

JSON documents conform to the following rules:

- A name-value pair consists of a name enclosed in quotation marks separated from the corresponding value by a colon. For example, "identifier" : 25 is a name-value pair. Whitespace between the name and value is insignificant.
- A value can be a string, a number, an array, an object, or one of the following literal values: *true*, *false*, or *null*.
- Strings must be enclosed in quotation marks.
- Objects and arrays can be nested.

2.2 API Reference

2.2.1 Common

- HTTP Request Header

Request Header	Value
St2-Api-Key	Y2YyYWJkOGFkNDgxYTdiZDI0ZDdjNzU1NmE0NzA2ZWJiYTBlNTE5YmJlOTg1ODU0MzNmNjc3
content-type	application/json

```
[NOTE] ask your system administrator for St2-Api-Key value for
specific ITA deploay instance
```

- API are all **Async**, unblock calls, which will return right away with task ID
- Use task ID to query task status via *HTTP GET*, for instance

```
    curl -k -H "St2-Api-Key: Y2YyYWJkOGFkNDgxYTdiZDI0ZDdjNzU1NmE0NzA2ZWJiYTBlNTE5YmJlOTg1ODU0MzNmNjc
```

2.2.2 SSH Adapter API

- Request Header, see *here*
- Request Method: **POST**
- Request URL: `https://{IPAddress}/api/executions`
- Request Body

```
{
  "action":"core.remote",
  "parameters": {
    "username":"root",
    "password":"root",
    "cmd":"df -h",
    "timeout": 30,
    "hosts":"192.168.1.212"
  }
}
```

- Parameters

username	username to login to target system
password	password to login to target system
cmd	username to login to target system
timeout	connection timeout in seconds
hosts	hosts seperated by commas

2.2.3 Local Commandline API

- Request Header, see *here*
- Request Method: **POST**
- Request URL: `https://{IPAddress}/api/executions`
- Request Body

```
{
  "action":"core.local",
  "parameters": {
    "cmd":"df -h",
    "timeout": 30,
  }
}
```

- Parameters

cmd	username to login to target system
timeout	connection timeout in seconds

2.2.4 HPSA rosh API

HPSA rosh API run remote command on target via HP Server Automation(HPSA) rosh utility, for details about rosh and HPSA, please refer to HPSA officiall document.

- Request Header, see *here*
- Request Method: **POST**
- Request URL: `https://{IPAddress}/api/executions`
- Request Body

```
{
  "action":"hpsa.rosh_py",
  "parameters": {
    "run_as_username": "root",
    "target_hostname": "vm001",
    "run_command": "df -h",
    "connection_timeout": 30
  }
}
```

- Parameters

run_as username	user name to run remote command
target_hostname	target server
run_command	command to run on target server
connection_timeout	connection timeout to ogfs server

2.2.5 Task Result API

- Request Header, see *here*
- Request Method: **GET**
- Request URL: `https://{IPAddress}/api/executions/{Task ID}`