RESTful API support for Arctera System Recovery

Veritas System Recovery 22 and later versions support the following operations from the RESTful API.

	Method	System Recovery (SR) Operation
1	GET	Check status of all the volumes of the system
2	GET	Check all the drives available in the system
3	GET	Check the progress of current job in action
4	GET	List of all the recovery points of the system
5	POST	Restore data drives
6	POST	Delete the backup jobs configured
7	POST	Recovery Point Set Create Job
8	POST	Recovery Point Set Edit Job
9	POST	ReApply Job
10	POST	Independent Create Job
11	POST	Edit Independent Backup Job
12	POST	Run Backup Job
13	POST	Delete Backup Job
14	GET	Get Backup Job

API call details:

Note:

1. **Host URL**: https://<MachineIP>:4443/
   a. MachineIP is the IP address of the system where "Veritas WebAPI services" Agent service is running.
2. Default port 4443 is used for SR REST API calls.
3. For Post WebAPI requests, provide the parameters in the Body section in JSON format.
4. To improve the performance of RestAPI, a few code level modifications are made. As a result, the input parameter values become case sensitive.

   Example:
   Scheduling == "Yes"
   imgPasswordEncryption == "Standard", "Medium", "High"

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1. **Check status of all the volumes of the system**

   API Name : GetVolumeStatus
   Description : Displays the list of volumes in the system along with their status as displayed in SR GUI.
   URL : api/v1/value1/GetVolumeStatus
   Input Parameters : NA
   Example URL : https://<MachineIP>:4443/api/v1/value1/GetVolumeStatus
   Output sample : ["Recovery (*:\\) -> At Risk",
   " (*:\\) -> At Risk",
   " (C:\\) -> At Risk",
   "New Volume (F:\\) -> At Risk",
   "New Volume (E:\\) -> At Risk",
   "Overall Status -> At Risk"]

2. **Check all the drives available in the system**

   API Name : GetAllDrives
   Description : Displays the list of volumes available in the system along with details of Generic-ID of volume and space available in drive.
   URL : api/v1/value1/GetAllDrives
   Input Parameters : NA
   Example URL : https://<MachineIP>:4443/api/v1/value1/GetAllDrives
   Output sample : ["Recovery (*:\\) Generic ID : 0-1 Space Available = 139 MB",
   " (*:\\) Generic ID : 0-2 Space Available = 71 MB",
   " (C:\\) Generic ID : C:\\ Space Available = 24849 MB",
   "New Volume (F:\\) Generic ID : F:\\ Space Available = 185 MB",
   "New Volume (E:\\) Generic ID : E:\\ Space Available = 482 MB"
   ]

3. **Check the progress of current job in action**

API Name : GetJobProgress
Description : Displays progress of ongoing job.
URL : api/v1/value1/GetJobProgress
Input Parameters : NA
Example URL : https://<MachineIP>:4443/api/v1/value1/GetJobProgress
Output sample1 : "15%"
Output sample2 : "No job is running" when no Jobs are in progress.

4. **List of all recovery points available in the system**

API Name : GetRecoveryPoints
Description : Displays the list of all recovery points available of the system.
URL : api/v1/value1/GetRecoveryPoints
Input Parameters : NA
Example URL : https://<MachineIP>:4443/api/v1/value1/GetRecoveryPoints
Output sample1 : ["F_Drive001.v2i | Location :E:/FBackup/",
"F_Drive001_i001.iv2i | Location :E:/FBackup/"]
Output Sample2 : "No recovery points found" when recovery points are not available.

5. **Restore data drives**

API Name : RestoreDataDrive
Description : Restores the data drive.
URL : api/v1/value1/RestoreDataDrive
Input Parameters : targetdrive - Drive to which data should be restored.
v2ipath - Source path of v2i image in the local destination along wit complete v2i name.
v2ipassword – password of v2i, if image is password protected.
Example URL : https://< MachineIP>:4443/api/v1/value1/RestoreDataDrive
Example Body : 1. Body if v2i is password protected

```
{
"targetdrive":"E",
"v2ipath":"D:\\backup\\G_Drive001.v2i",
"v2ipassword":"Welcome@123"
}
```

2. Body if v2i is not password protected

```
{
"targetdrive":"E",
"v2ipath":"D:\\backup\\G_Drive001.v2i",
"v2ipassword":""
}
```

Output sample : "Data drive restored successfully"

Note: System drive recovery is not supported. Source of recovery point should be local path only. Network destination is not supported.

6. **Delete the backup jobs configured**

API Name : DeleteBackupJob
Description : Deletes the backup job
URL : api/v1/value1/DeleteBackupJob
Input Parameters : JobID - Job ID of respective backup job
Example URL : https://< MachineIP >:4443/api/v1/value1/DeleteBackupJob
Example Body :

```
{
"JobID":"1E0AD230-1D88-43BB-A3FE-C16EF70C01E3"
}
```

Output sample : "Deleted Backup job successfully"

Note: To get Job ID of Backup Jobs, run GetBackupJobs

7. **Create Backup Job**

API Name : CreateBackupJob
URL : api/v2/value2/CreateBackupJob
Description : Creates the RPS backup job
Example URL : **https://<MachineIP>:4443/api/v2/value2/CreateBackupJob**
Input Parameters :

```
{
"drives":"",
"destpath":"",
"Networkusername":"",
"Networkpassword":"",
"Compression":"",
""RetentionLimit":,
"spansizeinMB":,
"imgPassword":"",
"imgPasswordEncryption":"",
"Scheduling":"",
"Date_Time":"",
"DayOfWeek":"",
"Base_Interval":"",
"BaseDayOfWeek":"",
"BaseDate_Time":"",
"BaseDayOfMonth":"",
"RunMorethanOncePerDay":"",
"TimeBetweenBackups":"",
"NoOfTimes":"",
"ConsolidateFrequency":""
}
```

Output sample : "Added backup job successfully"

- **Compression:** This provides the compression ratio that needs to be applied. Below are the user inputs.

- "None"
- "Standard"
- "Medium"
- "High"

- **RetentionLimit:** The input should be provided without "", and value can be integers from 1 to 999.
- **spansizeinMB:** The value can be integer between 100 to 999999, in MB size.
- **imgPassword:** Image Password of the length which suits the **imgPasswordEncryption** type selected.
- **imgPasswordEncryption:** This provides the type of encryption to the password.
  - "Standard"
  - "Medium"
  - "High"
- **Scheduling:** Provide "Yes" if user wants to schedule the backup, provide "No" If Scheduling is not required.
- **Date_Time :** Should provide incremental date and time in the format dd-mm-yyyy hh:mm and its 24-hour time format. Ex: 30-06-2021 22:00.
- **DayOfWeek:** Should provide which day increment back up to be run, input will be in numeric 0,1…. 0-Sun,1-Mon,2-Tue,3-Wed,4-Thu,5-Fri,6-Sat.
- **Base_Interval:** Base_interval is used when to run the next new base backup, values can be 0-Weekly,1-Monthly,2-Quarterly,3 –Yearly.
- **BaseDayOfWeek:** Should provide which day Base back up to be run, input will be in numeric 0,1…. 0-Sun,1-Mon,2-Tue,3-Wed,4-Thu,5-Fri,6-Sat, this input field can be used to enter multiple days in the week Ex: BaseDayOfWeek = "0,1,2,3". **(This option should be used when Base_Interval is Weekly i.e, Base_Interval= '0'**
- **BaseDate_Time:** Should provide Base date and time in the format dd-mm-yyyy hh:mm and its 24-hour time format.
- **BaseDayOfMonth:** Should provide which day Base back up to be run, input will be in numeric 0,1…. 1-1st day, 2-2nd day ,3-3rd day and so on……, this field also accepts multiple inputs **(This option should be used when Base_Interval is Monthly i.e, Base_Interval='1'**
- **RunMorethanOncePerDay:** Should provide "True" to set RunMorethanOncePerDay option, provide "False" if not required.
- **TimeBetweenBackups:** Provide Time Between Backups.
  Example:
  For minutes, provide input either "15 M" or "30 M".
  For Hours, provide integer value in the range "1 to 23".
- **NoOfTimes:** Provide how many times backup needs to be run in a day. It's an integer value greater than 1 and the highest value depends on TimeBetweenBackups.
- **ConsolidateFrequency:** This provides the Automatically Optimize options and inputs are as below:
  - "Never"
  - "Every four hours"
  - "Every twelve hours"

8. **Edit RPS Backup Job**

API Name : CreateBackupJob
URL : api/v2/value2/CreateBackupJob
Description : This POST request accepts the same input as RPS Create Job. Along with that, user must provide "ImageJobID" input with Job ID of the Job to edited, the Job ID can be retrieved by running GetBackupJob GET Request **(https://MachineIP:4443/api/v1/value1/GetBackupJobs)**
Example URL : https://<MachineIP>:4443/api/v2/value2/CreateBackupJobInput
Parameters :

```
{
"drives":"",
"destpath":"",
"Networkusername":"",
"Networkpassword":"",
"Compression":"",
"RetentionLimit":,
"spansizeinMB":,
"imgPassword":"",
"imgPasswordEncryption":"",
"Scheduling":"",
"Date_Time":"",
"DayOfWeek":"",
"Base_Interval":"",
"BaseDayOfWeek":"",
"BaseDate_Time":"",
"BaseDayOfMonth":"",
"RunMorethanOncePerDay":"",
"TimeBetweenBackups":"",
"NoOfTimes":"",
"ConsolidateFrequency":"",
"ImageJobID":""
}
```

Output Sample : "Added backup job successfully"

- **Compression:** This provides the compression ratio that needs to be applied. Below are the user inputs.
  - "None"
  - "Standard"
  - "Medium"
  - "High"
- **RetentionLimit:** The input should be provided without "", and value can be integers from 1 to 999.
- **spansizeinMB:** The value can be integer between 100 to 999999, in MB size.
- **imgPassword:** Image Password of the length which suits the **imgPasswordEncryption** type selected.

- **imgPasswordEncryption:** This provides the type of encryption to the password.
  - "Standard"
  - "Medium"
  - "High"
- **Scheduling:** Should provide "Yes" if user wants to schedule the backup, provide "No" If Scheduling is not required.
- **Date_Time:** Should provide incremental date and time in the format dd-mm-yyyy hh:mm and its 24 hour time format. Ex: 30-06-2021 22:00
- **DayOfWeek:** Should provide which day increment back up to be run, input will be in numeric 0,1…. 0-Sun,1-Mon,2-Tue,3-Wed,4-Thu,5-Fri,6-Sat.
- **Base_Interval:** Base_interval is used when to run the next new base backup, values can be 0-Weekly,1-Monthly,2-Quarterly,3 –Yearly.
- **BaseDayOfWeek:** Should provide which day Base back up to be run, input will be in numeric 0,1…. 0-Sun,1-Mon,2-Tue,3-Wed,4-Thu,5-Fri,6-Sat, this input field can be used to enter multiple days in the week Ex: BaseDayOfWeek = "0,1,2,3". **(This option should be used when Base_Interval is Weekly i.e, Base_Interval='0'**
- **BaseDate_Time:** Should provide Base date and time in the format dd-mm-yyyy hh:mm and its 24-hour time format.
- **BaseDayOfMonth:** Should provide which day Base back up to be run, input will be in numeric 0,1…. 1-1st day, 2-2nd day ,3-3rd day and so on……, this field also accepts multiple inputs **(This option should be used when Base_Interval is Monthly i.e, Base_Interval='1'**
- **RunMorethanOncePerDay:** Should provide "True" to set RunMorethanOncePerDay option, provide "False" if not required.
- **TimeBetweenBackups:** Provide Time Between Backups.
  Example:
  For Minutes, provide input either "15 M" or "30 M"
  For Hours, provide integer value in the range "1 to 23"
- **NoOfTimes:** Provide how many times backup Needs to be run in a day. It is an integer value greater than 1 and highest value depends on TimeBetweenBackups.
- **ConsolidateFrequency:** This provides the Automatically Optimize options and inputs are as below:
  - "Never"
  - "Every four hours"
  - "Every twelve hours"
- **ImageJobID:** Provide the Job ID of the Job to edited, the Job ID can be retrieved by running GetBackupJob GET Requests.

9. **ReApply Job**

API Name	: ReApply
URL	: api/v2/value2/ReApply
Description	: This POST request as of now works only for RPS Backup Jobs. You can edit independent Backup Jobs with ReApply Post request. This Post request accepts the same inputs as RPS Create Job, to edit and existing Backup.
Example URL	: https://<MachineIP>:4443/api/v2/value2/ReApply

Input Parameters:

```
{
"drives":"",
"destpath":"",
"Networkusername":"",
"Networkpassword":"",
"Compression":"",
“"RetentionLimit":,
"spansizeinMB":,
"imgPassword":"",
"imgPasswordEncryption":"",
"Scheduling":"",
"Date_Time":"",
"DayOfWeek":"",
"Base_Interval":"",
"BaseDayOfWeek":"",
"BaseDate_Time":"",
"BaseDayOfMonth":"",
"RunMorethanOncePerDay":"",
"TimeBetweenBackups":"",
"NoOfTimes":"",
"ConsolidateFrequency":""
}
```

Output Sample : "Added backup job successfully"

- **Compression:** This provides the compression ratio that needs to be applied. Below are the user inputs.
  - “None”
  - “Standard”
  - “Medium”
  - “High”
- **RetentionLimit:** The input should be provided without "", and value can be integers from 1 to 999.
- **spansizeinMB:** The value can be integer between 100 to 999999, in MB size.
- **imgPassword:** Image Password of the length which suits the **imgPasswordEncryption** type selected.
- **imgPasswordEncryption:** This provides the type of encryption to the password .
  - “Standard”
  - “Medium”
  - “High”
- **Scheduling:** Should provide “Yes” if user wants to schedule the backup, provide “No” If Scheduling is not required.
- **Date_Time:** Should provide incremental date and time in the format dd-mm-yyyy hh:mm and its 24-hour time format. Ex: 30-06-2021 22:00
- **DayOfWeek:** Should provide which day increment back up to be run, input will be in numeric 0,1…. 0-Sun,1-Mon,2-Tue,3-Wed,4-Thu,5-Fri,6-Sat.

- **Base_Interval:** Base_interval is used when to run the next new base backup, values can be 0-Weekly,1-Monthly,2-Quarterly,3 –Yearly.
- **BaseDayOfWeek:** Should provide which day Base back up to be run, input will be in numeric 0,1…. 0-Sun,1-Mon,2-Tue,3-Wed,4-Thu,5-Fri,6-Sat, this input field can be used to enter multiple days in the week Ex: BaseDayOfWeek = "0,1,2,3". **(This option should be used when Base_Interval is Weekly i.e, Base_Interval='0'**
- **BaseDate_Time:** Should provide Base date and time in the format dd-mm-yyyy hh:mm and its 24-hour time format.
- **BaseDayOfMonth:** Should provide which day Base back up to be run, input will be in numeric 0,1…. 1-1st day, 2-2nd day ,3-3rd day and so on……, this field also accepts multiple inputs**(This option should be used when Base_Interval is Monthly i.e, Base_Interval='1'**
- **RunMorethanOncePerDay:** Should provide "True" to set RunMorethanOncePerDay option, provide "False" if not required.
- **TimeBetweenBackups:** Provide Time Between Backups.
  Example:
  For Minutes, provide input either "15 M" or "30 M"
  For Hours, provide integer value in the range "1 to 23"
- **NoOfTimes:** Provide how many times backup Needs to be run in a day. It is an integer value greater than 1 and the highest value depends on TimeBetweenBackups.
- **ConsolidateFrequency:** This provides the Automatically Optimize options and inputs are as below:
  - "Never"
  - "Every four hours"
  - "Every twelve hours"

10. **Independent Create Backup Job:**

API Name : CreateIndependentBackupjob
URL : api/v2/value2/CreateIndependentBackupjob
Description : This POST request can be used to Create Independent Backup job
Example URL : **https://<MachineIP>:4443/api/v2/value2/CreateIndependentBackupjob**
Input Parameter:

```
{
"drives":"",
"destpath":"",
"Networkusername":"",
"Networkpassword":"",
"imgPassword":"",
"imgPasswordEncryption":"",
"Compression":"",
"RetentionLimit":"",
"spansizeinMB":"",
"Scheduling":"",
"Date_Time":"",
"Interval":"",
"DayOfWeek":"",
"DayOfMonth":""
}
```

Output Sample : "Added backup job successfully"

- **Compression:** This provides the compression ratio that needs to be applied. Below are the user inputs:
  - "None"
  - "Standard"
  - "Medium"
  - "High"
- **RetentionLimit:** The input should be provided without "", and value can be integers from 1 to 999.
- **spansizeinMB:** The value can be integer between 100 to 999999, in MB size.
- **imgPasswordEncryption:** This provides the type of encryption to the password:
  - "Standard"
  - "Medium"
  - "High"
- **Scheduling:** Should provide "Yes" if user wants to schedule the backup, provide "No" If Scheduling is not required.
- **Date_Time:** Should provide date and time in the format dd-mm-yyyy hh:mm and its 24-hour time format.
- **Interval:** interval is used when to run new backup 0-Weekly,1-Monthly,2-Only run once, this called 'Automatically Create a Recovery Point' Option in SR UI.
- **DayOfWeek:** Should provide which day back up to be run, input will be in numeric 0,1…. 0-Sun,1-Mon,2-Tue,3-Wed,4-Thu,5-Fri,6-Sat. (This option should be used when Interval is Weekly (0))
- **DayOfMonth:** Should provide which day back up to be run, input will be in numeric 0,1…. 1-1st day, 2-2nd day ,3-3rd day and so on…… (This option should be used when Interval is Monthly(1))

11. **Edit Independent Backup Job:**

API Name : CreateIndependentBackupjob
URL : api/v2/value2/CreateIndependentBackupjob
Description : This Post request can be used to Create Independent Backup Jobs. This POST request accepts the same input as RPS Create Job. Along with that, user must provide "ImageJobID" input with Job ID of the Job to edited, the Job ID can be retrieved by running GetBackupJob GET Requests.
Example URL : https://<MachineIP>:4443/api/v2/value2/CreateIndependentBackupjob
Input Parameter:

```
{
"drives":"",
"destpath":"",
"Networkusername":"",
"Networkpassword":"",
"imgPassword":"",
"imgPasswordEncryption":"",
"Compression":"",
""RetentionLimit":,
```

```
"spansizeinMB":,
"Scheduling":"",
"Date_Time":"",
"Interval":"",
"DayOfWeek":"",
"DayOfMonth":"",
"ImageJobID":""
}
```

Output Sample : "Added backup job successfully"

- **Compression:** This provides the compression ratio that needs to be applied. Below are the user inputs:
  - "None"
  - "Standard"
  - "Medium"
  - "High"
- **RetentionLimit:** The input should be provided without "", and value can be integers from 1 to 999.
- **spansizeinMB:** The value can be integer between 100 to 999999, in MB size.
- **imgPasswordEncryption:** This provides the type of encryption to the password:
  - "Standard"
  - "Medium"
  - "High"
- **Scheduling:** Should provide "Yes" if user wants to schedule the backup, provide "No" If Scheduling is not required.
- **Date_Time:** Should provide date and time in the format dd-mm-yyyy hh:mm and its 24 hours' time format.
- **Interval:** interval is used when to run new backup 0-Weekly,1-Monthly,2-Only run once, this called 'Automatically Create a Recovery Point' Option in SR UI
- **DayOfWeek:** Should provide which day back up to be run, input will be in numeric 0,1…. 0-Sun,1-Mon,2-Tue,3-Wed,4-Thu,5-Fri,6-Sat. (This option should be used when Interval is Weekly (0))
- **DayOfMonth:** Should provide which day back up to be run, input will be in numeric 0,1…. 1-1st day, 2-2nd day ,3-3rd day and so on…… (This option should be used when Interval is Monthly (1))
- **ImageJobID:** Provide the Job ID of the Job to edited, the Job ID can be retrieved by running GetBackupJob GET Requests.

12. **Version2 Run Backup Job:**

API Name : RunBackupJob
URL : api/v2/value2/RunBackupJob
Description : This POST request can be used to Create Independent Backup Jobs. This POST request accepts the same input as RPS Create Job along with that user must provide "JobID" input with Job ID of the Job to edited, the Job ID can be retrieved by running GetBackupJob GET Requests.
Example URL : **https://<MachineIP>:4443/api/v2/value2/RunBackupJob**

Input Parameter: {
"JobID":""
}

Output Sample : "Backup job was run successfully"

- **JobID:** Provide the Job ID of the Job to edited, the Job ID can be retrieved by running GetBackupJob GET Requests.

13. **Delete Backup Jobs:**

API Name : DeleteAllBackupJobs
URL : **api/v2/value2/DeleteAllBackupJobs**
Description : This POST request can be used to Delete All the Backup Jobs assigned to the machine.
Example URL : **https://<MachineIP>:4443/api/v2/value2/DeleteAllBackupJobs**
Input Parameter: NA
Output Sample : "All Defined BackJobs deleted Successfully"

14. **Get Backup Jobs:**

API Name : GetBackupJobs
URL : api/v2/value2/GetBackupJobs
Description : Displays the list of backup jobs configured in system.
Example URL : https://<MachineIP>:4443/api/v2/value2/GetBackupJobs
Input Parameter: NA
Output Sample :

```
[
 {
    "JobID":  "897F71BE-EF9C-4034-B362-CDE3BB9E6425",
    "JobDisplayName": "My Computer Backup",
    "JobType": "Recovery Point Set"
 }
]
```