rVcenter

version 1.3

rVcenter is a command line tool that uses vCenter's REST API to generate reports and remotely turn ON and OFF virtual machines. ***rVcenter*** is written in Python, it can be run from any platform that has Python installed on.

Installation on Linux

```
sudo cp rVcenter.py $ rVcenter
sudo chmod +x $ rVcenter
```

First Run and Security Considerations

rVcenter needs your vCenter connection parameters in order to run successfully. The connection parameters will be saved in : "`.rvc/session.json`". I recommend that the parameter is deleted after running ***rVcenter***.

```
$ rVcenter session
vCenter IP or FQDN: vcenter.example.com
Username: Your_vCenter_username
Password: **************
```

rVcenter Commands

```
$ rVcenter session : Saves your vCenter connection parameters.
$ rVcenter summary : Resource allocation summary report.
$ rVcenter start <VM Name> : Starts the virtual machine.
$ rVcenter stop <VM Name> : Stops the virtual machine.
$ rVcenter inventory <text|csv|json> : Prints the full vCenter virtual machines inventory.
$ rVcenter tree : Prints the virtual environment architecture in a tree format.
$ rVcenter <datacenter|cluster|host|vm> list: Prints all the objects in the list.
$ rVcenter monitor: Logs changes in the virtual environment, the settings need to created and saved first.
$ rVcenter settings: Saves rVcenter settings.
$ rVcenter help : Prints this help.
```

Use rVcenter in Batch Mode

rVcenter can be used in batch mode to start or stop multiple virtual machines using a single command. In order to do so, create a new batch file and add in it the commands you need to run. the below screenshot is an example:

In order to run the batch file, issue the following commands:

```
$ chmod +x batch
$ ./batch
```

Future Developments

vCenter has a rich API that can be used to automate and speed up the virtual environment administration tasks; ***rVcenter*** can be easily and quickly extended to incorporate new functions. If you are interested in exploring the vCenter API capabilities or have any questions about ***rVcenter*** please do not hesitate to contact me.