

# REST Harness API

REST Harness API is a tool to stand in the place of another RESTful service. This can be used to Mock out a service that doesn't exist yet, or where the need to reproduce a particular set of inputs from an opaque service. It can also serve as a simple shared cache. This software runs as a daemon service by default when you start the AMI. A user can choose to change the default port and host the software uses with the use of flags found in the '--help' guide. Additionally, another version of the software is included called firewallHelper.py. This file runs the standard service with the additional feature to open and close ports on the firewall in a Linux environment.

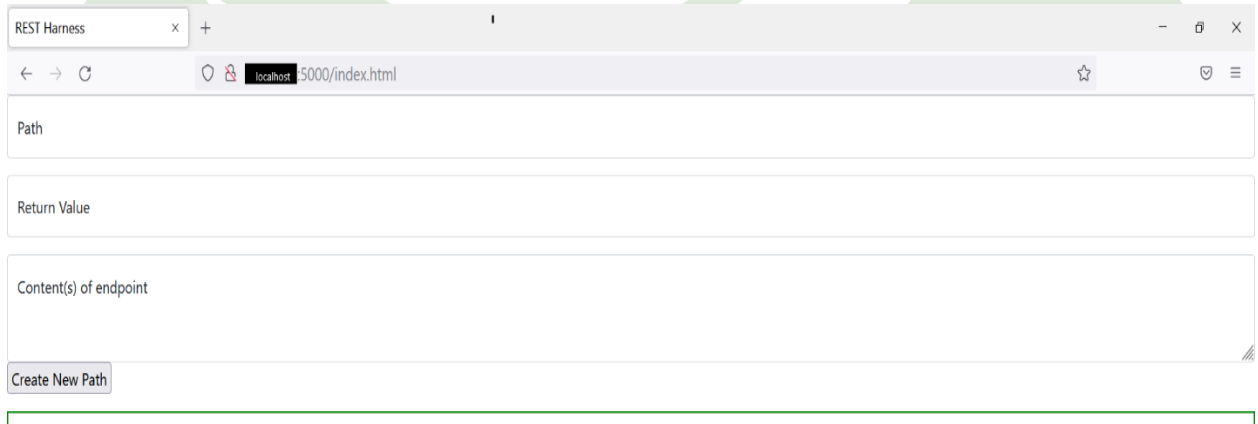
## Standard Use:

**REST Harness API automatically runs when the AWS AMI is booted up:**

```
[rhuser@rest-harness-03 ~]$ systemctl status rest_harness -l
● rest_harness.service - REST Harness API
   Loaded: loaded (/etc/systemd/system/rest_harness.service; disabled; vendor preset: disabled)
   Active: active (running) since Tue 2021-12-07 18:19:40 UTC; 6s ago
 Main PID: 17969 (python3)
   CGroup: /system.slice/rest_harness.service
           └─17969 /usr/bin/python3 /home/rhuser/gitrepo/rest_harness/application.py

Dec 07 18:19:40 rest-harness-03.novalocal systemd[1]: Started REST Harness API.
Dec 07 18:19:41 rest-harness-03.novalocal python3[17969]: * Serving Flask app 'application' (lazy loading)
Dec 07 18:19:41 rest-harness-03.novalocal python3[17969]: * Environment: production
Dec 07 18:19:41 rest-harness-03.novalocal python3[17969]: WARNING: This is a development server. Do not use it in a production deployment.
Dec 07 18:19:41 rest-harness-03.novalocal python3[17969]: Use a production WSGI server instead.
Dec 07 18:19:41 rest-harness-03.novalocal python3[17969]: * Debug mode: off
Dec 07 18:19:41 rest-harness-03.novalocal python3[17969]: * Running on all addresses.
Dec 07 18:19:41 rest-harness-03.novalocal python3[17969]: WARNING: This is a development server. Do not use it in a production deployment.
Dec 07 18:19:41 rest-harness-03.novalocal python3[17969]: * Running on http://10.6.3.76:5000/ (Press CTRL+C to quit)
[rhuser@rest-harness-03 ~]$
```

**You can navigate to <http://localhost:5000/index.html> to use the browser interface:**



**With this interface testable endpoints can be created and saved to a list on the browser:**

Path /Test
Return Value 200
Content(s) of endpoint TEST TEST
<input type="button" value="Create New Path"/>
<ul style="list-style-type: none"><li>• /Test - 200: TEST TEST X</li></ul>

**The newly created endpoints can now be accessed:**

