LFN Mentorship Project Presentation

August 2020

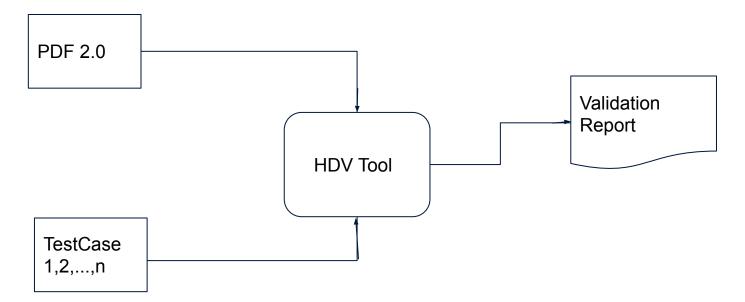
THE LINUX FOUNDATION

ILFNETWORKING

Introduction

- Name: Shubham Mishra
- > **Location**: India
- University: Delhi University
- Mentor(s): Liang Chen
- LFN Project: OPNFV

Project Description: HDV is a tool to automate the validation or configuration of hardwares underlying NFV infrastructure.



- Project Objectives: HDV tool
 - > Open framework to support multi-vendor redfish.
 - To add Support of User-friendly CLI, Result Reporting Format, Logging, TestAPI, Unit tests, etc.
 - Adopt PDF 2.0 and add support for multiple servers.

Project Deliverables:

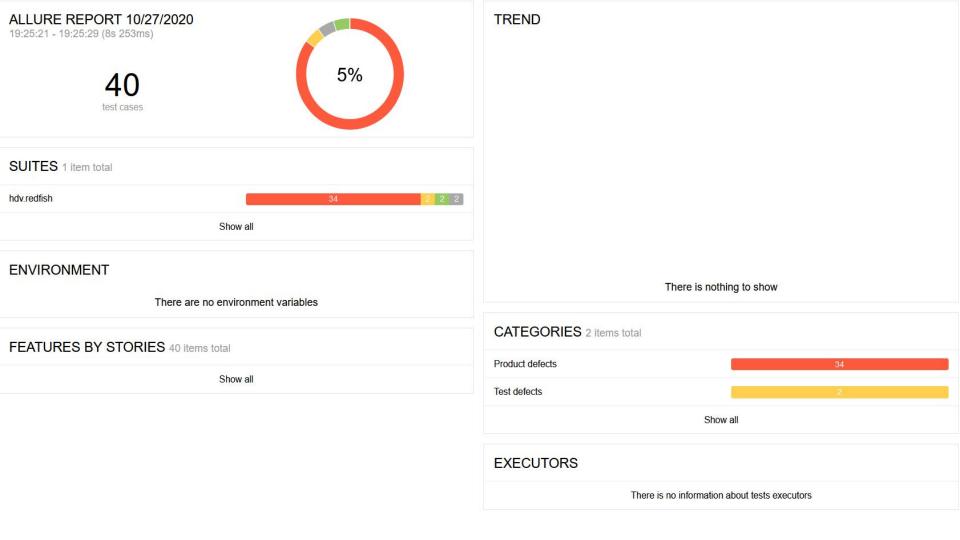
- > HDV framework
- Develop default HP ILO 4 case set supported.
- Web based GUI for reporting
- User and Developer Documentation.
- Unit tests.

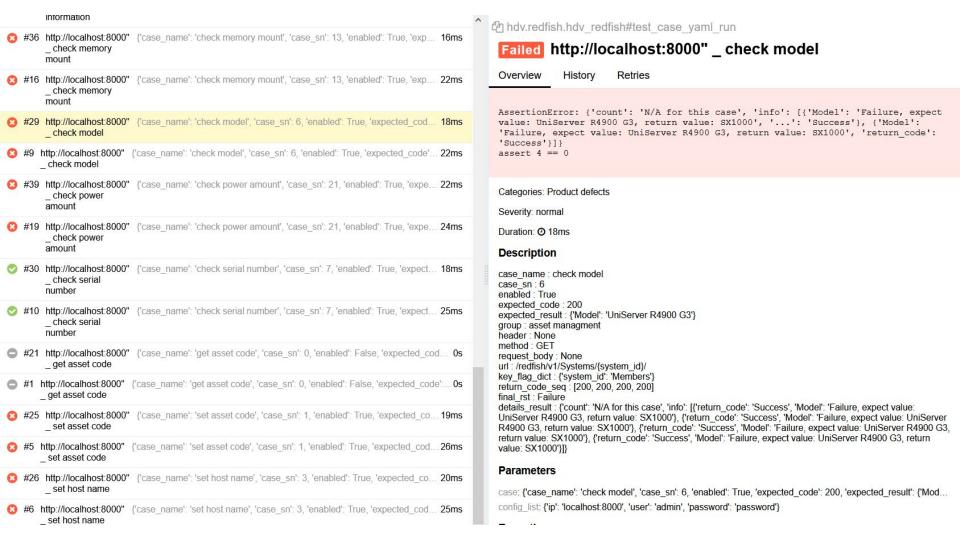
- Project Execution & Accomplishments:
- Working with out of band management tool redfish.
- Networked with professionals.
- Code: merged!
- Documentation: about to merge.

- Recommendations for future work:
- > Extend cases file for multiple vendors.
- > Find a way to have common test case file for all vendors.
- Use PDF for expected response instead of separate test case file.

- Project Output or Results:
- Link https://gerrit.opnfv.org/gerrit/q/project:cirv-hdv

```
case name: check CPU info
case sn: 12
enabled: true
expected code: 200
expected result:
    count: 2
   Manufacturer: Intel(R) Corporation
   MaxSpeedMHz: 2300
   Model: "Intel(R) Xeon(R) Gold 5218N CPU @ 2.30GHz"
    ProcessorArchitecture: ["x86", "IA-64", "ARM", "MIPS", "OEM"]
    Socket: [1, 2]
    Status:
   Health: OK
    State: Enabled
   TotalCores: 16
    TotalThreads: 32
group: compoment management
header: null
method: GET
request body: null
url: /redfish/v1/Systems/{system id}/Processors/{cpu id}/
. . .
```





- Insights Gained:
- Develops technical skills.
- Meet with other people that can inspire you and help you.

