2021-06-18 AI/ML for NFV Meeting Minutes

Attendees

Sridhar Rao

Rohit Singh Rathaur

Girish L

Al Morton

Summary Till-Date:

1. Survey if completed.
2. Testbed is assigned - Pod12-Jump
3. Framework : **Acumos (too many issues).**
4. Problem Domain - **Failure Prediction**
5. Clear Definition of Failure Prediction - Ongoing.
6. Existing Models with FP - ARIMA or **RNN - Used to deploy and test.**
7. Enhancement to Existing works on FP - Not yet started
8. Data Gathering: **(Important*)**
    a. Publicly Available: Searching...
    b. Collecting from existing testbeds: WIP

Sl. No.	Topic	Presenter	Notes
1	Framework Deployment Status	Girish L Rohit Singh Rathaur	Acumos - Container/K8S based approach. Vanilla deployment - Failure to deploy for both approached (with and without cluster deployment). 1. Work on Acumos on Pod18 - Existing Cluster - **Girish** 2. Work on Other framework on Pod12-Jump - **Rohit.** Decision on 'other' framework by EoW.
2	Survey - Implementation details - Status	Girish L Rohit Singh Rathaur	**Completed** https://docs.google.com/spreadsheets/d/15XRdrWvbSCPsg1zZ9PfT9yvnElq21AvB/edit#gid=971676644
3	Model Deployment Status	Girish L Rohit Singh Rathaur	Waiting for the Framework to be UP - to run on the testbed. Currently running locally - Google Collab. (Jupyter Notebooks). Data: CPU consumption. Failure: VM.
4	Publicly Available Data	Girish L Rohit Singh Rathaur	To be added by Girish/Rohit:
4	Failure Prediction Definition - Status	Girish L Rohit Singh Rathaur	Existing works: 1. Mostly VM and Application Failures. 2. Failure - Crash and Connectivity Gaps: 1. Hardware, **Containers** 2. Other failure types aren't considered How to collect Data: Take advantage of Chaos Engg Project - Litmus, Pumba, blockade etc.