## 2021-07-16 AI/ML for NFV Meeting Minutes

## Attendees

Sridhar Rao

Rohit Singh Rathaur

Girish L

Emma Foley

SI. No.	Торіс	Presenter	Notes
1	Thoth as formal project in Anuket		<ul><li>Will be presented in next TSC meeting - for project creation request. Mainly to capture all the works done here.</li><li>Mail has been sent for any Interest in leading this project.</li><li>It is OK in Anuket for a person to be PTL in more than one project.</li></ul>
2	EUAG White-Paper		<ol> <li>https://wiki.lfnetworking.org/pages/viewpage.action?pageId=56067017</li> <li>Key Takeaways: Emphasis is too much on Data - Data First. I have these data, what can I do, approach. We should come up the "Decisions" that Telcos are interested.</li> <li>Problem Statement section include assumption         <ul> <li>a. "it is not a competitive advantage to have access to better AI tools" - Tools are not important, its the models, and Models definitely can give competitive advantage.</li> <li>Need to be careful about how to share data and results across competing companies - Sharing with Opensource projects may be easier than "competing companies"</li></ul></li></ol>
3	Summary of "Gaps" in Existing Failure prediction works	Rohit Singh Rathaur Girish L	https://drive.google.com/file/d/1FdhT4d8QHQR7OqfXhx3UqviGDYW5nfBQ/view?usp=sharing Summarize and share your comments here: Failure Prediction using AI/ML in NFV Environments
4	Model Enhancement - Options	Rohit Singh Rathaur Girish L	<ul> <li>Both girish and rohit have shared the proposals.</li> <li>Action: Sridhar to review.</li> <li>Ex: VM Prediction: <ol> <li>VM's Failure Event + Infrastructure (platform) + VM-specific (virtual-Infrastructure) metrics that external to VM Sources are different.</li> <li>VM's Failure Event + Resource-Consumption (Application) metrics that is internal to VM - Sources are same.</li> </ol> </li> <li>Hypothesis: Cadvisor (CMN) metrics = Collectd (CMN) metrics from Container.</li> </ul>
5	Data Status		<ol> <li>EUAG Meeting is yet to happen</li> <li>Request to LF-IT is sent - waiting for response.</li> <li>Work with Pod18 - not yet started. Barometer include Ansible playbooks to deploy collectd+ on K8S.         <ul> <li>a. https://github.com/opnfv/barometer/blob/master/docs/release/userguide/installguide.docker.rst</li> <li>b. https://github.com/opnfv/barometer/blob/master/docs/release/userguide/installguide.oneclick.rst</li> </ul> </li> </ol>
6	Project-1 (AlgoSelector)		Still looking for contributors.

7	Project-2 (FailureGen)		Found a contributor. Already started the work.
			<ol> <li>Time-Varying, Load-Varying Stressng *</li> <li>Enlisting actions in Linux System that can cause failures</li> </ol>
			StressNg.pptx
8	Failure Prediction Definition - Status	Rohit Singh Rathaur	Rohit: Node and VM
	(mapping Failures to Data)	Girish L	Girish: Container and app
	(appg r and co to Data)	C.NOT E	
			https://docs.google.com/spreadsheets/d/1N9LKZjx117zQHJSLcCFK8dwiOpswWyhZECaNNS6NKHo/edit? usp=sharing
			Update this page, if any change is required for the data model: Failure Prediction using AI/ML in NFV Environments