












(February 2023) Developer and Testing Forum Hosted by LF Networking

Title	Topic Abstract	Slides	Recording
Introduction Presented by Kandan Kathirvel, Sana Tariq	<p>Overview of project Nephio, its targets and relation to other industry activities, open source or standardisation. This presentation discusses what Nephio is, motivation to launch the project, what are the problems it aims to solve. It also explains the way the project is organized, the journey thus far and the plans going forward.</p>	N/A	 2023-02-...view.mp4
Infrastructure Automation Presented by Sandeep Sharma, Amar Kapadia	<p>Nephio is an intent-driven cloud-native automation platform which can automate the Infrastructure, workload and day N configuration of the workloads.</p> <p>In this topic, we will explore how Nephio can be used to perform the following,</p> <ul style="list-style-type: none"> • Create Kubernetes clusters in the cloud provider platform of your choice. • Specify basic properties of the cluster like regions/zones, cluster size, etc., using high-level intent. • Continuous reconciliation of the Infrastructure intent specified by the user. • Preparation of the cluster for workload automation. 	 Infrastru...ephio.pdf	 Nephio In...ation.mp4
Release Delivery Presented by Stephen Wong, Tina Tsou	<p>Introduction to the Nephio release process</p>	N/A	 Nephio R...very.mp4
Deployment Demo and Technical Topics	<p>The first Nephio demo, deploying Free5GC on a multi-cloud instance</p> <ul style="list-style-type: none"> • 1st half: Technical deep-dive • 2nd half: The first Nephio demo, deploying Free5GC on a multi-cloud instance 	 LFN Nephi...ation.pdf	 2023-02-...pics.mp4
Leveraging EMCO Code to Accelerate Nephio Presented by Amar Kapadia, Sandeep Sharma, Nadathur Sundar, Piotr Matysiak	<p>EMCO has broken new ground with a number of innovations. However, it is in maintenance mode. In this session we want to explore if any of the code can be used to accelerate Nephio. Some ideas are:</p> <ul style="list-style-type: none"> • Placement controller • Istio controller • HPA (hardware placement awareness) controller • Temporal workflow controller • Helm parsing 	 Birds of F...o.pptx.pdf	 2023-02...BOF.mp4

<p>Configuration Management</p> <p>Presented by Sandeep Sharma, Vivekanandan Muthukrishnan</p>	<p>In this presentation we will go over the following,</p> <ul style="list-style-type: none"> • A controller(or multiple controllers) to serve declarative API for PNF configuration and management. <ul style="list-style-type: none"> ◦ Controller will create PNF device CRs, which define the PNF, its properties and connectivity information. • CRD definition for PNF configuration, this will be the PNF configuration intent. • PNF configuration(data) management. <ul style="list-style-type: none"> ◦ Vendor releases/updates configuration data, example yang models to the Nephio PNF catalog repo. ◦ Continuous reconciliation of the configuration data in all the sites. Leverage the existing tools i.e porch, configSync etc. • Support for different protocols i.e NETCONF, RESTCONF. • PNF configuration discovery to support Plug and play of PNFs. 	 <p>Nephio C...ment.pdf</p>	 <p>2023-02...gmt.mp4</p>
<p>Nephio Use Cases and Defining Release Contents</p> <p>Sana Tariq, Kaushik Bhandankar</p>	<p>Here we present the use cases discussed so far in Nephio community, and the planned contents of the first release, as well as what will be in the pipeline for subsequent releases.</p>	<p>N/A</p>	 <p>Nephio U...ases.mp4</p>