Service Function Chaining (SFC)

Release draft (08e07a7)

OPNFV

January 29, 2016

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INTRODUCTION

Note: This is the working documentation for the SFC project.

The OPNFV Service Function Chaining (SFC) project aims to provide the ability to define an ordered list of a network services (e.g. firewalls, NAT, QoS). These service are then "stitched" together in the network to create a service chain. This project provides the infrastructure to install the upstream ODL SFC implementation project in an NFV environment.

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TWO

DEFINITIONS

Definitions of most terms used here are provided in the IETF SFC Architecture draft. Additional terms specific to the OPNFV SFC project are defined below.

Table 2.1: Definitions

Term	Meaning
...	...

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ABBREVIATIONS

Table 3.1: Abbreviations

Abbreviation	Term
NS	Network Service
NFVO	Network Function Virtualization Orchestrator
NF	Network Function
RSP	Rendered Service Path
SF	Service Function
SFC	Service Function Chain(ing)
SFF	Service Function Forwarder
SFP	Service Function Path
VNF	Virtual Network Function
VNFM	Virtual Network Function Manager
VNF-FG	Virtual Network Function Forwarding Graph
VIM	Virtual Infrastructure Manager

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USE CASES

This section will outline use cases driving the initial OPNFV SFC implementation.

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ARCHITECTURE

This section will describe the architectural approach to incorporating SFC into the OPNFV platform.

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REQUIREMENTS

This section will define requirements for the initial OPNFV SFC implementation, including those requirements driving upstream project enhancements.

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