A Design of Virtual Machine aware Flow Switch in the Cloud based Network Function Virtualization System

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Abstract—In this paper, we present a design of Virtual Machine aware flow switch in the Cloud based Network Function Virtualization System, which capable of providing a service at a stable speed even though the number of virtual machines connected to a hypervisor is increased by extracting flow information about each of a plurality of packets and providing network virtualization. In this paper, we also present an architecture of the VM aware flow switch, detailed operation method of it, and the POC of the VM aware flow switch.

Keywords— Flow Switch, Cloud, Network Function Virtualization\

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