

Software Defined Networks and Openflow for 千人雲端電腦教室

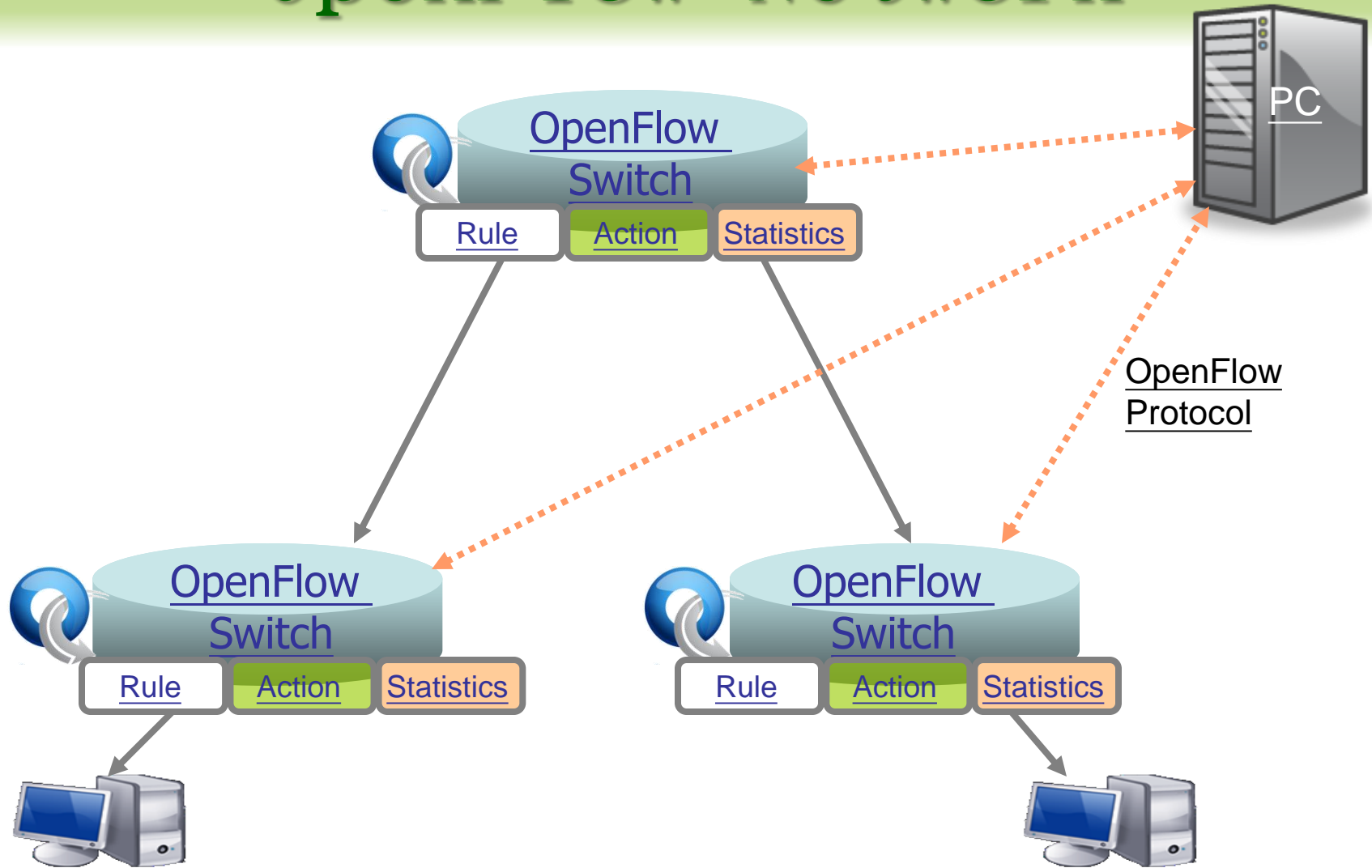
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SDN

- ❑ Software defined networking (SDN) is an approach to building computer networks that separates and abstracts elements of these systems. These elements are called the "control plane" and the "data plane."



OpenFlow Network Controller



Progress

- ❑ Learning the concepts of SDN and OpenFlow
- ❑ Some tools to manage virtual machines (VMs) in Linux system
- ❑ Ezilla (by National Center for High-Performance Computing, NCHC) is a powerful tool to build/close VMs in an easy way
- ❑ Open vSwitch & NOX for a SDN environment



雲端電腦教室的優勢

□ 創造立即且一致性的教學環境

- 平均1.8秒可產生1台虛擬電腦

□ 建構個人化可攜式學習環境

- 不受時間、地點限制
- 提供個人化的學習進度及課後練習
- 不受時空限制，課後可隨時隨地無縫接軌，持續進行未完成的操作練習

□ 異地共享跨單位軟硬體資源

- 交通大學與國網中心的軟硬體資源共享

