

ABSTRACT

ANALYSIS AND DESIGN NETWORK WITH SOFTWARE DEFINED NETWORK BASED USING OPENDAYLIGHT CONTROLLER WITH NETWORK DEVELOPMENT LIFE CYCLE METHOD

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This research aims to analyze the usage of Opendaylight, which network these days doesn't use SDN anymore, network hardware or software was controlled by company vendors all the time, caused by difficulty in integration from different hardware, if a company has a complex network topology consists of 1000 switches, it will burden network administrator's work if they had to configure the switches one by one.

Each hardware connected with opendaylight controller using openflow will just need to configure the controller, it is configured in the controller not in the hardware and this controller is not bounded with any vendor and it supports openflow, so it can configure hardware with any vendor type.

Using controller will result in easier to manage large amount of switches. without controller it will be difficult to manage number of switches and burden network administrator's work.

this research is conducted during the period 01 november until 09 march 2018

Keywords: software defined network, openflow, controller