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# Applications of SDN in IHEP network environment

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Software Defined Network(SDN) is a flexible and programmable network architecture, the controller of SDN uses the south API(openflow or netconf) to deploy the network policies into the network devices, and also provides the north API for the use-defined applications. There are two scenarios in IHEP network environment using SDN technologies and architecture. For the new generation of IHEP campus network, the users and devices access control system developed in-house is using as a north application of SDN controller to launch the users access policies to controller based on the network access procedures. Another scenario is the network security application, we are using the services chain function for SDN to separate the different application traffic into different security devices to do the traffic protection and also the white list traffic will be by-pass by the security devices to increase the network performance.

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