Abstract

Virtualization offers isolation as security advantage. However, inappropriate selection of networking mode make the network isolation cannot be realized. Guests is able to be accessed outside the host easily.

In this research, network isolation is applied by the host-only networking and netfiter-based firewall.

Netfilter-based firewall works very well in accordance to security policy and It works statefully. The performance impact is relatively small.

Keywords: iaas cloud security, virtual machine, firewall