

***Implementation of Bandwidth Management On Networking Virtual Local Area
Network Linux -based Debian Using Methods
Hierarchical Token Bucket (HTB)***

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ABSTRACT

In today's modern era , internet access problem is not a stranger anymore , everywhere there are already a lot of Internet cafés. Internet usage also varied ranging from email , Web , Gaming , Browsing , Streaming and Multimedia .With the number of internet usage , so it needed a data stream that is good and regular . It required an internet setting by way of bandwidth management . Bandwidth is the large size of the data or information in an internet network . If an internet connection is not in management , resulting in data traffic will be congested and there may be some users can not access the internet . Many methods can be used in the management of bandwidth. However, the author uses the method of Hierarchical Token Bucket (HTB) to manage the bandwidth . Most networks in use is the Local Area Network (LAN) . Networks that have been commonly used , both in industry and institutions . The author tries to do research that will be applied to the Virtual Local Area Network (VLAN) based on Debian Linux . Networks Virtual Local Area Network (VLAN) is LAN networks connected to the global network , but can subdivide into multiple virtual networks with one device.

Keywords : *Bandwidth, Hierarchical Token Bucket (HTB),
Virtual Local Area Network (VLAN).*