DISTRIBUTED DATABASE CONFIGURATION TO MANAGE DOMAIN NAME SYSTEM DATA (STUDY CASE: PT. Pandi)

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ABSTRACT

Domain Name System is a system that stores information about host names and domain names in the form of distributed databases over computer networks. DNS translates hostnames into IP addresses or otherwise. Information regarding the DNS records of a domain is stored by the Domain Registrar, DNS service provider, and web hosting provider. PANDI is an organization that manages DNS records. DNS servers that always accessed additional experience data increased usage of system services and require system maintenance. Database server hardware has limitations on usage and allows it to be damaged due to continuous use or due to threats such as a disaster, resulting in damage to the server hardware and making the server unable to access it. The design carried out is to create a distributed database system with a virtualization device as a server. The system design consists of 2 servers, namely the master server and slave, which is the slave becomes a backup if the master server has any problems. The final result of designing a distributed database system with master and slave replication can provide database availability.

Keywords: Domain Name System, Virtualization, Database