ABSTRACT

DESIGN AND DEVELOPMENT ARCHITECTURE OF CLOUD COMPUTING ON* E-DESA *AS A SERVICE TO ACCESS INFORMATION OF VILLAGE

(A Case study on some villages in the District of Cimenyan*)*

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Village as the smallest part of the system of administrative governance in Indonesian is still doing conventional job in the processing and delivery of information village. Therefore, villages have a great desire to be able to utilize the information and communication technology (ICT).

Currently, there are several sites that have been created in the village to convey information of village. Development of the site has been done in many ways, start from developed by simple and static web development tools, until CMS (Content Management System) complex. Based on these problems, needed a system that could create uniformity formats of village site content and solve the existing problems in the village.

By implementing cloud computing, can be built an architecture of processing services and village information access called E-Desa, which is a public service that is Software as a Service (SaaS) in the form of CMS, as well as infrastructure services as a Service (IaaS) as a processing resource centralized and data storage on a Virtual Private Server (VPS). E-Desa can be used by many villages, ready to use, on demand, capable of processing and storing data and information of village.

Based on the results of research and testing, can be conclude that E-Desa is able to create uniformity and convenience to the village government in processing and delivering information village, so information access of village can be more quickly, easily, and inexpensively, without being obstructed by restrictions of place, distance, and time.

Keywords: E-Desa, *Cloud Computing, Software as a Service (SaaS), Infrastructure as a Service (IaaS), Virtual Private Server (VPS).*