



Análisis de hipervisores nativo propietario vs libre como alternativa para el almacenamiento de datos [

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Analítica

The present research is of a quasi-experimental exploratory type that aims to perform a comparative analysis of native, proprietary and free hypervisors, and at the same time provide an option for small and medium-sized enterprises known as SMEs, which are not able to invest in a data storage center, since their structures do not require equipment and servers with large capacities. For the classification of the files that make up the sample, the classification of files proposed by Microsoft was considered according to their size in Minuscule, Small, Medium, Large, Huge and Giant, the number of files in each group was determined according to the use and need of each one of them, the sample was calculated with a confidence level of 95% and a significance level of 5%, tests were performed based on the FURPS software evaluation model, based on metrics such as the speed of data storage, the number of files in each group was determined according to the use and need of each of them, based on metrics such as data processing speed, obtaining 11.74% in favor of the VMware hypervisor, response time obtaining 28.73% in favor of the non-virtualized data storage, resource consumption the value obtained was 17% in favor of the VMware hypervisor, as a last indicator the efficiency was the same for both models because there was no packet loss in sending and receiving. According to the results obtained, a minimum difference of 0.04% was observed between data storage using a hypervisor and non-virtualized data storage, resulting in the acceptance of the Study Hypothesis

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