A Study on the Effects of Virtualization on Mobile Learning Applications in Private Cloud

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Real time communication applications including Mobile learning application can be integrated with other software applications into one platform and deployed in private clouds to reduce capital expenditure and lower overall costs of daily based maintenance and real estate required for computer hardware. As a critical component of private clouds, virtualization may adversely affect a real time communication application running in virtual machines as the layer of virtualization on the physical server adds system overhead and contributes to capacity lose. Virtualization in the mobile can enable hardware to run with less memory and fewer chips, reducing costs and increasing energy efficiency as well. It also helps to address safety and security challenges, and reduces software development and porting costs. This study will investigate how to build an effective learning environment for both the University and learners by integrating the virtualization, private cloud technology and mobile learning applications.