

# Impacto de la asignación de recursos CPU sobre el rendimiento de la vRAN en O-Cloud

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**Abstract** - The need for mobile operators to have an infrastructure that can handle ever-increasing traffic and support the development of more demanding services at lower costs has led to the emergence of the O-RAN paradigm. This organization proposes an unbundled and virtualized Radio Access Network (vRAN) running on commodity servers, moving away from traditional monolithic network environments. In this context, managing the available computing resources at the host machine is key for meeting network requirements without wasting resources. In this regard, this work attempts to evaluate the impact of computational and radio resources on network performance under different radio configurations. The results prove that misallocating resources to vRAN instances can lead to network performance degradation and that additional dedicated resources do not always translate into better performance.