



Automatización de configuraciones en dispositivos de redes de varios fabricantes usando herramientas de DevOps [

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text (article)

Analítica

In heterogeneous networks the configuration management of the devices is complex because it depends on network operating systems developed by different manufacturers. Device configuration is usually done manually, executing commands directly in the command line interface. Configuring several devices is a slow process and susceptible to errors. Another problem is the non-existence or non-compliance of configuration policies, or repositories of backup configurations and historical record of changes. There is a group of applications from manufacturers that solve these problems for their own devices. Other third-party tools have support for devices from different manufacturers. In both cases the cost is really high. As part of the DevOps culture there is a large group of tools, many of them free, among which are several related to configuration management and file change management. When making an analysis of the free tools it was proved that Ansible and Git allow to solve the problems raised in this investigation. As a result, it was proven that Ansible has several modules for managing network devices from several manufacturers. It allows to create an abstraction layer between the network administrators and the different network operating systems and the automation of the configurations. With this, the process is streamlined and the occurrence of errors reduced. On the other hand, Git allows to create a repository with the configurations and associated files that serves as a backup and historical record

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