Assignment 3

Dr Perigo:

DevOps automation tools are extremely useful to network engineers when they want to reduce the TTM (time to market) on a product/idea. There are many different types of software that automate different portions of the DevOps solution. The reasons why DevOps workers use automation tools is that it is version able, repeatable, testable, and can be rapidly deployed [1]. Here I will talk about different DevOps automation tools, their purpose, and why they are so useful.

Jenkins:

* Open-source CI/CD (continuous integration / continuous deployment) server that automates DevOps processes [2]
* It allows for developers to automatically push code to a repository, run test cases, and provides instant feedback based on the code. [3]
* Jenkins is useful because it allows for developers to automate the process of error checking and can continuously check for errors in batches.

Ansible:

* Serverless configuration management tool that automates repetitive processes. [3]
* Ansible can be easily configured for any type of task and is written in Python.
* Ansible is useful because it requires minimal overhead to run, it is easy to learn for new developers and can be deployed at any scale. [4]

They are more tools than just the couple that I listed, but all these tools are amazing pieces of software that can be applied to different areas in DevOps. Picking the right tool not only depends on network architecture but also what type of automation you want to incorporate.

Best Regards,

Logan Chayet

Sources:

[1] Lecture – DevOps & ZTP-2.pdf

[2] <https://www.jenkins.io/>

[3] <https://cloudify.co/devops-automation-tools-the-ultimate-list/>

[4] <https://www.ansible.com/overview/how-ansible-works>