**Assignment 3.1 Deployment Pipeline**

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*DevOps*

For this week’s discussion board assignment, research “Deployment Pipeline” and compose a structured post of your findings (a structured post has an introduction, a conclusion, and a developed body that flows well – generally at least a few paragraphs).

**The initial post must be in essay format (introduction, body, and conclusion) and a minimum of 250 words. Points will be deducted for not meeting the specified word count requirements.**

The deployment pipeline is what helps us as developers with automating the process of creating and developing of our software projects. Below I will go into detail on what each step looks like and how they can be used during the development of a software project.

The deployment pipeline is made up of several different parts. The pipeline helps with continuous integration, continuous deployment and last but not least the continuous delivery of the software project. (Simplilearn.) The life cycle of a pipeline starts with the process this is create faster feedback cycles and to create principles for learning. (Simplilearn.) Next the architecture should be agile and easily changeable, and it should also be resilient to failure. (Simplilearn.) You should be able to take what you’ve learned from testing period and make the fixes quicker and then be able to continue with the next step in the development pipeline. (Simplilearn.) The third step in the developer pipeline is the technology. You need to be working with a technology that allows for you to implement a SDLC pipeline which in turn allows you to increase the productivity of the software your using an the output. (Simplilearn.)The next step is the infrastructure you want to make sure you have in place the correct type such as servers, cloud services and ect then ending at something your users can access. In short, the code is wrote, built, tested, interactive tested then deployed to the user.

Inconclusion the DevOps deployment pipeline seems like a very useful tool for us as developers. It lays out what we should be working on in the pipeline. Weather its testing it or deploying it. Each step is helpful in its own way and I think if we’re not using this as one of our tools in our dev tool bags we are most certainly missing out on a useful tool.

Simplilearn. (2020, Sept 27). DevOps Pipeline [Video file]. Retrieved from https://www.youtube.com/watch?v=DLIF9Gnyum4