Torren Davis

7/28/24

DevOps Module 12

Case Study Essay

In the case study, “Proving Compliance in Regulated Environments,” the author goes over how Bill Shinn, a principal security solutions architect at Amazon Web Services, goes about showing customers of large enterprises how to stay within compliance with laws and regulations. It is mentioned by Shinn that a big problem is that auditors are trained in ways that don’t mesh well with DevOps, and instead suit physical environments more. The goal, to Shinn, is to find an alternative method of presenting data to auditors, outside of their old methods. For this, auditors work with teams to figure out what information is needed through iteration, which is then sent through telemetry systems as data they can access without needing to request it. The job is figuring out how to turn the data into something the auditor can use and read. The lesson learned is that documentation should be used to showcase DevOps compliance.

The next case study, “Relying on Production Telemetry for ATM Systems,” talks about Mary Smith, and her pursuit of reaching reliance on production monitoring controls, alongside other methods to mitigate risk within the DevOps initiative at the financial services organization she works for. They go over how a developer was able to input a backdoor into the code of their ATMs, allowing for them to withdraw money from them during unscheduled maintenance times, and how the use of production telemetry. The lesson learned here was the useful of the telemetry tools that Mary Smith mentioned and suggested, compared to using code review when trying to avoid fraud.