

SSW-567 Software Testing, QA and Maintenance

HW-02

Aruneshwar Nalluri

“I pledge on my honor that I have not given or received any unauthorized assistance on this assignment/examination. I further pledge that I have not copied any material from a book, article, the Internet or any other source except where I have expressly cited the source“

Explain how Docker can help to address Configuration Management issues for

1. integration (when developers integrate code from multiple sources)
2. testing
3. deployment
4. customer support
5. internal and external hackers who might attack the system

A)

Integration: As we know even if the same code is being run at two different places the results might vary depending on the configuration of the systems the code is being run on.

Testing: As we know there may be many levels that our request has to go through before it will reply the required data expected by the user, this makes it really tough for tester to test the issue in the code by using Docker it will make it easier for us to test where the error has occurred.

Deployment: All the versions need to be compatible with each other and sometimes the lower layer might be updated and the upper layer needs to be updated as well but it might take more time for upper layer to update, So it will be easier to deploy in live environment as the whole environment will be deployed in a single stroke.

Customer Support: If there is need for customer to be assisted in a particular project we can use the Docker container to identify which stack his problem is so that we can target them to find and fix the issues.

Internal and external hackers who might attack the system: As the containers are individualized from one another, Docker will help protect from Internal and External hackers.