Assessment - 6

Problem statement:

Develop, Test and Deploy a microservice to find standings of a team playing league football match using country name, league name and team name. The service should be accessible via web browser on internet and end user should be able to view results by changing previously listed parameters. Output of this service should be presented in web browser using any one of Javascript framework, HTML or JSON. And the service should be ready to be released to production or live environment. In output, display following:

- Country ID & Name: (*<ID>*) - *<name>*
- League ID & Name: (*<ID>*) - <name>
- Team ID & Name: (*<ID>*) - *<name>*
- Overall League Position: *<position>*

Use following for completion:

1. On your machine:
    a. Eclipse IDE
    b. Java 1.8
    c. Maven
    d. Putty
    e. WinSCP client for file transfer
    f. ZA Proxy
    g. Selenium
    h. JMeter
    i. Internet access for search and research. In case you don't want to use any of the above listed tool, you can download any relevant tool or utility to complete the assessment.

2. APIs to be used, to fetch data, are available @ https://apifootball.com/documentation/ and

    APIKey is 9bb66184e0c8145384fd2cc0f7b914ada57b4e8fd2e4d6d586adcc27c257a978

3 Github repository
    a. Setup a local Git repo. for your project(s)
    b. Check-in the code to complete the assessment
    c. After completion of the exercise, **bundle** the Git repo. and mail it to haneet.singh@publicissapient.com & nidhi.singh@publicissapient.com

4 Jenkins is available to build and release the service at:
    a. Download & Install Jenkins locally
    b. Build jobs and pipeline for your project(s), using the local git
    c. Pipeline scripts need to be part of the codebase;
    d. Export the Jenkins job config., scripts as part of the project sources

5 VM to host the service is available at:

c. *Create a docker image and publish service locally*

d. *Share the docker image files as part of the code*

e. *Docker files (sources) need to be part of the codebase*

f. ***If you are not able to use Docker locally**, you may publish the service to AWS*

- *VM to host the service is available at: URL: http://ec2-18-217-63227.useast2.compute.amazonaws.com/*
- *Public IP: 18.217.63.227*
- **SSH/SCP username: Ubuntu*
- *Keyfile (for SSH/SCP access): "jenkins.pem" on your machine*
- *OS: Ubuntu Linux*
- *Port: 8080 (only this port is open to access the service over internet)* o *Worst case, mail the executable uber jar with all dependencies* to haneet.singh@publicissapient.com & nidhi.singh@publicissapient.com