

CS 548—Enterprise Software Architecture and Design

Assignment Ten—Kubernetes—Rubric

-100 if your Stevens username does not appear in the cluster name or RDS database name.

-100 if you do not provide logs for all three deployments and testing, or your name does not appear in the logs.

-100 if you do not provide WAR files or YAML files or IntelliJ IDEA project for app applications.

1. ☐ [5] Show the permissions granted to the IAM user that you have set up, in the IAM console.
2. ☐ [10] Show via e.g. pgAdmin or IntelliJ IDEA that the tables have been created on the database server in Amazon RDS, and show the RDS web page for the running database instance. The endpoint in the RDS console should match that shown for the connection to show the tables.
3. ☐ [5] Show the private repositories in ECR for apps you are deploying in EKS.
4. ☐ [20] Launch deployment and service for clinic-domain, and describe pod and service using kubectl. Show microservice logs via kubectl logs. Show WADL for microservice. Show invocation of some query operations on microservice using web browser via node port. Show health checks on microservice.
5. ☐ [20] Launch deployment and service for clinic-rest, and describe pod and service using kubectl. Show WADL for service. Test query operations using a web browser (via the load balancer) and show web service logs via kubectl logs, to demonstrate that the service is using the backend microservice
6. ☐ [20] Launch deployment and service for clinic-webapp, and describe pod and service using kubectl. Show that web app works using a web browser (via the load balancer), and use logs to show it is using the backend microservice.
7. ☐ [15] Add patients, providers and treatments via the REST client CLI (use service URI for deployed clinic-rest), via the load balancer, and show that these are added to the domain using the web application.
8. ☐ [5] Completed rubric

Total: