Assignment

Monitoring Kubernetes Cluster

A&B is a Leading Business Services & Solution Provider company in the market, for one of their
clients is struggling with instability of the application environment, Downtime and poor
performance of the application, The resolution also takes high time to identify, investigate and
fix the issue.
The client would like to take help from continuous monitoring tools like Prometheus and
Grafana for monitoring their infrastructure and visualizing dashboard.
You are required to do following tasks :
1. Setup the node as instructed in the Kubernetes Level2 Assignment.
2. Setup another node with Prometheus and Grafana.
3. Run the cadvisor and node-exporter containers on the Kubernetes cluster.
4. Collect metrics from Kubernetes node.
5. Generate the Grafana dashboard to display following matrices.
a. Node CPU utilization
b. Memory Utilization
c. Disk Space Utilization
d. Container Memory Utilization

6. Configure an alert for Node CPU utilization going beyond 70%