DaemonSet usecase

In Microservices application, the enterprise application or business sytem is broken down into smaller microservices, packaged and distributed as pods with several replicas of each across the worker nodes of the cluster.

Each of these microservice applications generates logs during their execution and writes them local to the pod container.

If the application developer has to debug the application, he needs to goto each pod/container distributed across the nodes of the cluster and access them, that makes harder to debug.

To make the applications easy to debug, we need to aggregate the logs that are generated by all these applications into one place.
How can we do this?

1. Let us create an local storage persistent volume on each workernode. and mount it onto the pod containers

2. each containerized application running inside the pod writes the log onto the pv volume we attached.

3 we need to run a Log Aggregator agent that sits on each workernode and collects and uploads the logs onto an common location (elastic search)