Monitoring

Assignment:

Consider a JVM process that is supposed to pick messages from a Messaging Queue (Consider Active MQ, for example).

This process sometimes becomes unresponsive without throwing any exceptions, but restarting it makes it work again.

Questions:

1) How would you go about monitoring this situation and also take remediation action in case the process becomes unresponsive again?

If this is happening continously, then firstly we need to find the root cause of the problem i.e. is their any bug in the ActiveMQ build

or it is happening due to some other reasons. We need to test the same functionality using different build or in different environment.

2) What metrics of Messaging Queue would you monitor in this case as an indicator?

We need to set the monitoring both for broker as well as for producer.

3) Mention all the tools that you would use, if you wish to write a custom script, attach that

Currently, I don't have the custom script, but we can create a one thinking following in mind:

a) Actively monitoring the logs of ActiveMQ

b) If the logs has not been updated i.e. timestamp of the log file has not been changed (depending upon how frequent logs file has been updated in normal situation), then restart the corresponding service

c) We can also send the alert to the emails if the service has been restarted