Different types of OOME error.

1. java.lang.OutOfMemoryError: Java heap space
   https://access.redhat.com/solutions/37055

   Probable solution: Increasing the heap size if the load on the server increased
   Workaround: Increasing the heap size if there is lots of business outages

2. java.lang.OutOfMemoryError: MetaSpace
   a. https://access.redhat.com/solutions/2038983

3. java.lang.OutOfMemoryError: GC overhead limit exceeded
   https://access.redhat.com/solutions/27225

4. java.lang.OutOfMemoryError: unable to create new native thread
   https://access.redhat.com/solutions/27225

Capture A heap dump, → https://access.redhat.com/knowledge/solutions/21109

To see just what is being retained in your heap.
The best method would be to use the -XX:+HeapDumpOnOutOfMemoryError flag to create the heap dump automatically when the OOME occurs.

You can use Eclipse Heap Dump MAT for analysis→ https://www.eclipse.org/mat/

How to analyze heap dump → https://access.redhat.com/solutions/18301

JVM crash

1. hs_err_pid.log
2. The java version and vendor
3. Problematic Frame
4. Native frame => Current thread
5. Memory and system details
6. Using gdb library to open the core dump file

   KCS article for JVM crash issue
   https://access.redhat.com/solutions/20507

   Interpreting java core file
   https://access.redhat.com/solutions/5007221

How to create the core dump in RHEL
https://access.redhat.com/solutions/56021

Why does the JVM consume more memory than the amount given to -Xmx?

How does the JVM divides the Metaspace in the memory?

JDK 8 Metaspace tuning for JBoss EAP

Capture thread dump : https://access.redhat.com/site/solutions/46596
Analysis of thread dump https://github.com/varsharain-a11y/yatda

How to enable GC logging ?
https://access.redhat.com/solutions/18656

How to analyze GC logging ?

https://access.redhat.com/solutions/23735

https://github.com/mgm3746/garbagecat/blob/main/README.md