Thread Dump in JBoss and WebSphere (WAS)

What is a Thread Dump?
A thread dump is like taking a snapshot of all the threads (small tasks) running in a Java application
at a moment.
Why do we need it?
- To check why server is hanging, slow, or using high CPU.
- To find stuck, waiting or blocked threads.
- To detect deadlocks and bottlenecks.
Real-Life Example:
Like seeing what every cook in a kitchen is doing - cooking, waiting, or stuck.
How to Take Thread Dump in JBoss:
1. Using jstack:
Find PID: ps -ef grep java
jstack 12345 > /tmp/thread_dump.txt
2. Using CLI:
./jboss-cli.shconnect
:dump-threads
How to Take Thread Dump in WAS:

1. Using Admin Console:

Troubleshooting > Java Core > Dump Threads

2. Using kill -3:

Find PID: ps -ef | grep java

kill -3 23456

(This creates javacore.*.txt in logs folder)

Where is the thread dump?

- JBoss: as you save it, e.g. /tmp/thread_dump.txt

- WAS: logs directory as javacore.*.txt

Summary:

Feature | JBoss | WebSphere

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How | jstack, CLI | Admin Console, kill -3

File | thread_dump.txt | javacore.*.txt

Why | Debug hangs/slowness | Same

Thread dumps help diagnose stuck threads, long tasks, deadlocks, and performance issues.