Creating a memory image of Nuclos

Language: Deutsch · **English**

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> **Create heap and thread dumps with jvisualvm – to analyse memory leaks, freezes and for support.**

HOW-TO | ADMINISTRATOR | UPDATED: JUL 2026 | APPLIES TO NUCLOS 4.2026.X

On this page

A memory image (heap/thread dump) helps analyse memory leaks, freezes and crashes as well as profiling. It can be created from both the Nuclos client *a nd* server.

Post-mortem first

A *post-mortem* image can often still be created even after `OutOfMemoryExceptions` have been thrown. **Always** try this before restarting Nuclos.

Confidentiality

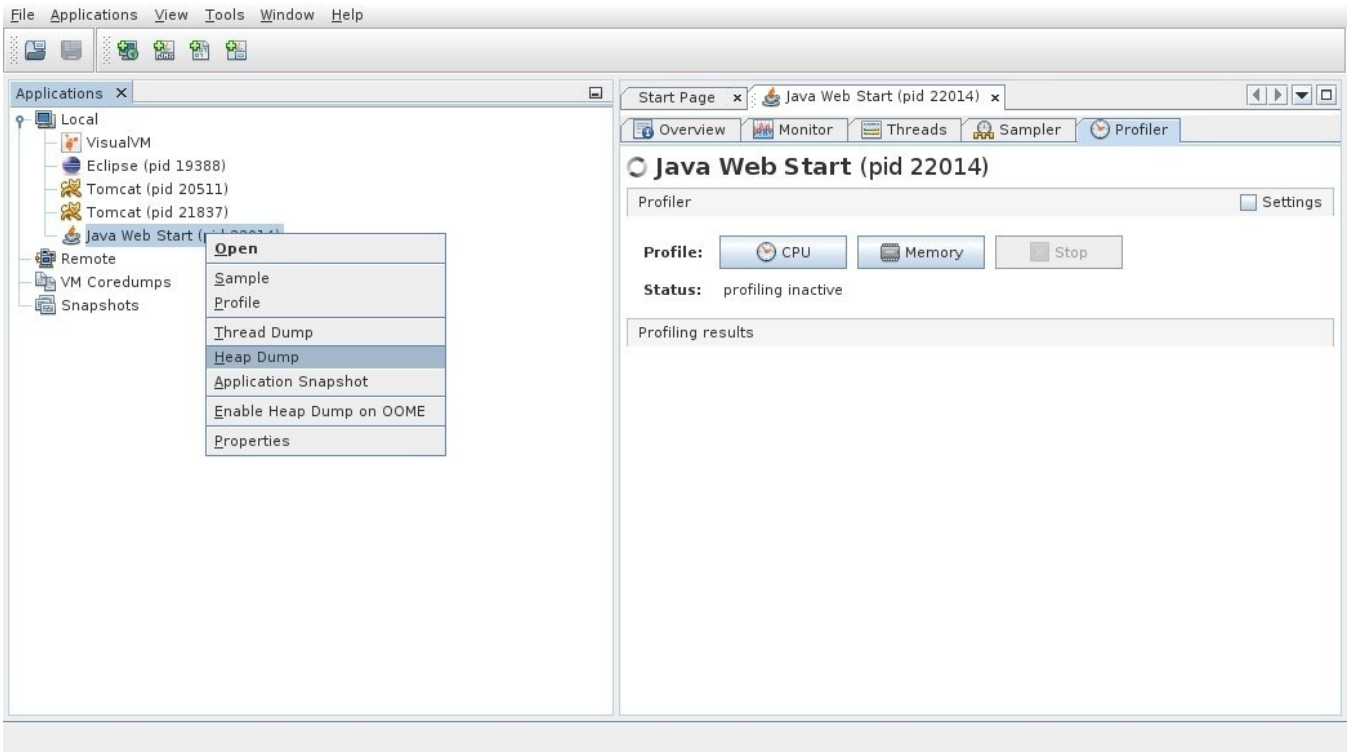
A memory image contains **confidential data** from your application. Only share it with trusted people and encrypt it for transport if needed.

Prerequisite

You need a **JDK** (not a JRE!) on the relevant system. If the server runs as a Windows **service**, the Tomcat JVM must be started with matching JMX parameters (see Tomcat administration). Newer installers allow specifying a JMX port in development mode.

Memory image with jvisualvm

1. Start `bin/jvisualvm` (or `.exe`) from the JDK.
2. On the left under *Applications*, right-click the JVM instance – the server appears as *Tomcat*, the client as *Java Web Start*.
3. Create a *Thread Dump* and a *Heap Dump* one after another and save each as a file.



jvisualvm: create thread and heap dump.

Windows service

If the server runs as a Windows service it is not directly visible here: run it in development mode and connect via right-click on *Local* *Add JMX Connection…* `localhost:<JMX port>`.

Related pages

Tomcat administration

JMX/Tomcat.

Open

Database

DB.

Open