

Creating a memory image of Nuclos

🌐 Language: [Deutsch](#) · [English](#)

🔧 Creating a memory image of Nuclos

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

HOW-TO

ADMINISTRATOR

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APPLIES TO NUCLOS 4.2026.X

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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 and 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.

File Applications View Tools Window Help

Applications x

Local

- VisualVM
- Eclipse (pid 19388)
- Tomcat (pid 20511)
- Tomcat (pid 21837)
- Java Web Start (pid 22014) **Open**
 - Sample
 - Profile
 - Thread Dump
 - Heap Dump
 - Application Snapshot
 - Enable Heap Dump on OOME
 - Properties
- Remote
- VM CoreDumps
- Snapshots

Start Page x Java Web Start (pid 22014) x

Overview Monitor Threads Sampler Profiler

Java Web Start (pid 22014)

Profiler ☐ Settings

Profile:

Status: profiling inactive

Profiling results

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](#)