



Webinar Memory Analyzer

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Goal

- Learn How-To Troubleshoot Memory Problems Using Heap Dumps and the Memory Analyzer.



Agenda

- Getting Started
- Analyze Memory Consumption
- Report Leak Suspects
- Questions & Answers



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The Memory Analyzer Works on Heap Dumps



A heap dump contains a **snapshot of objects that are alive** at one point in time.

All Objects: fields, references, primitive values, ...

All Classes: class loader, super class, static fields, ...



A heap dump does **not** contain

- who and where objects have been created.
- which objects have been garbage collected.



How to Get a Heap Dump

- On Demand
 - ◆ JDK6 and JConsole
- Non-Interactive
 - ◆ `-XX:+HeapDumpOnOutOfMemoryError`
- More...
 - ◆ http://wiki.eclipse.org/index.php/MemoryAnalyzer#Getting_a_Heap_Dump

Depends on...

- VM version
- OS platform

IBM VMs:
end of the year



Demo

Acquire and Open a Heap Dump



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Analyze Memory Consumption

- Drill-Down into your component
- Give hints where footprint can be reduced



Demo



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Automated Leak Report Simplifies Analysis

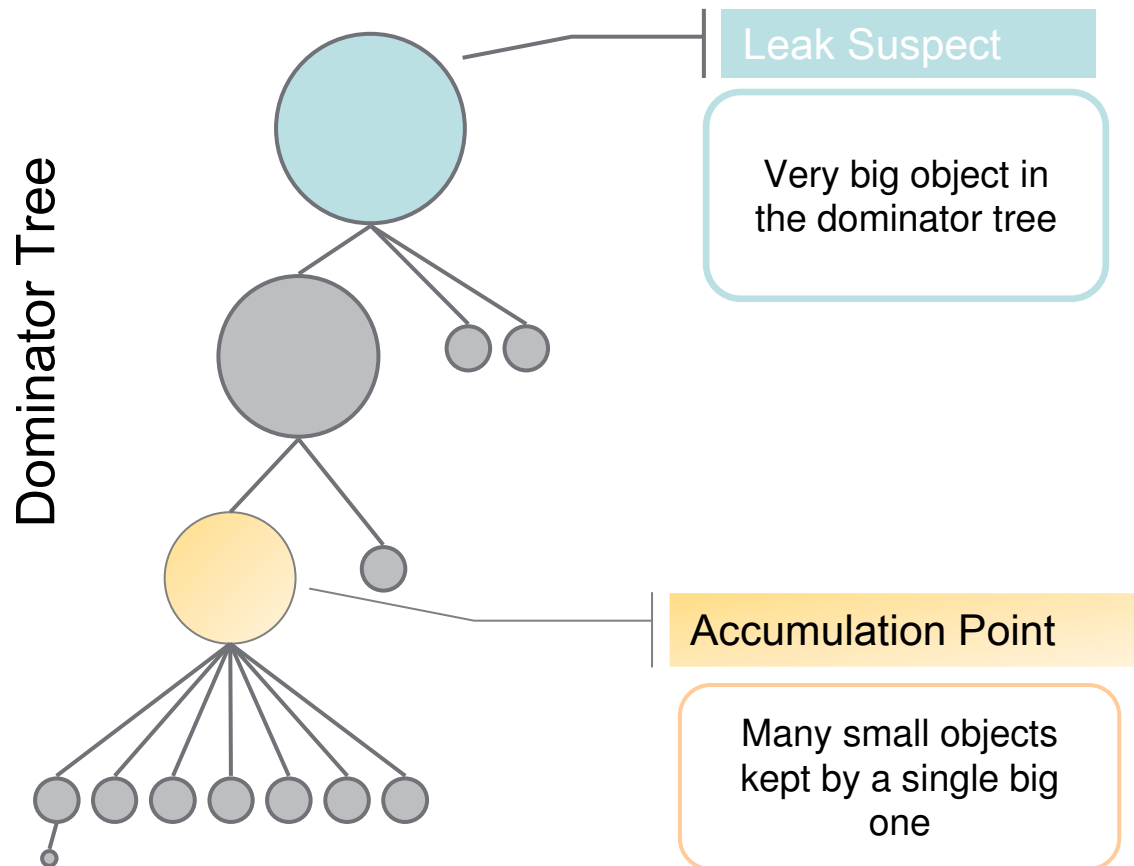
- Reduce Complexity of Memory Troubleshooting
- Easy Start – No Learning Needed
- Provide Results of an Analysis, Not Just a Toolbox



Demo

A Memory Leak Report

Find Suspects in the Dominator Tree



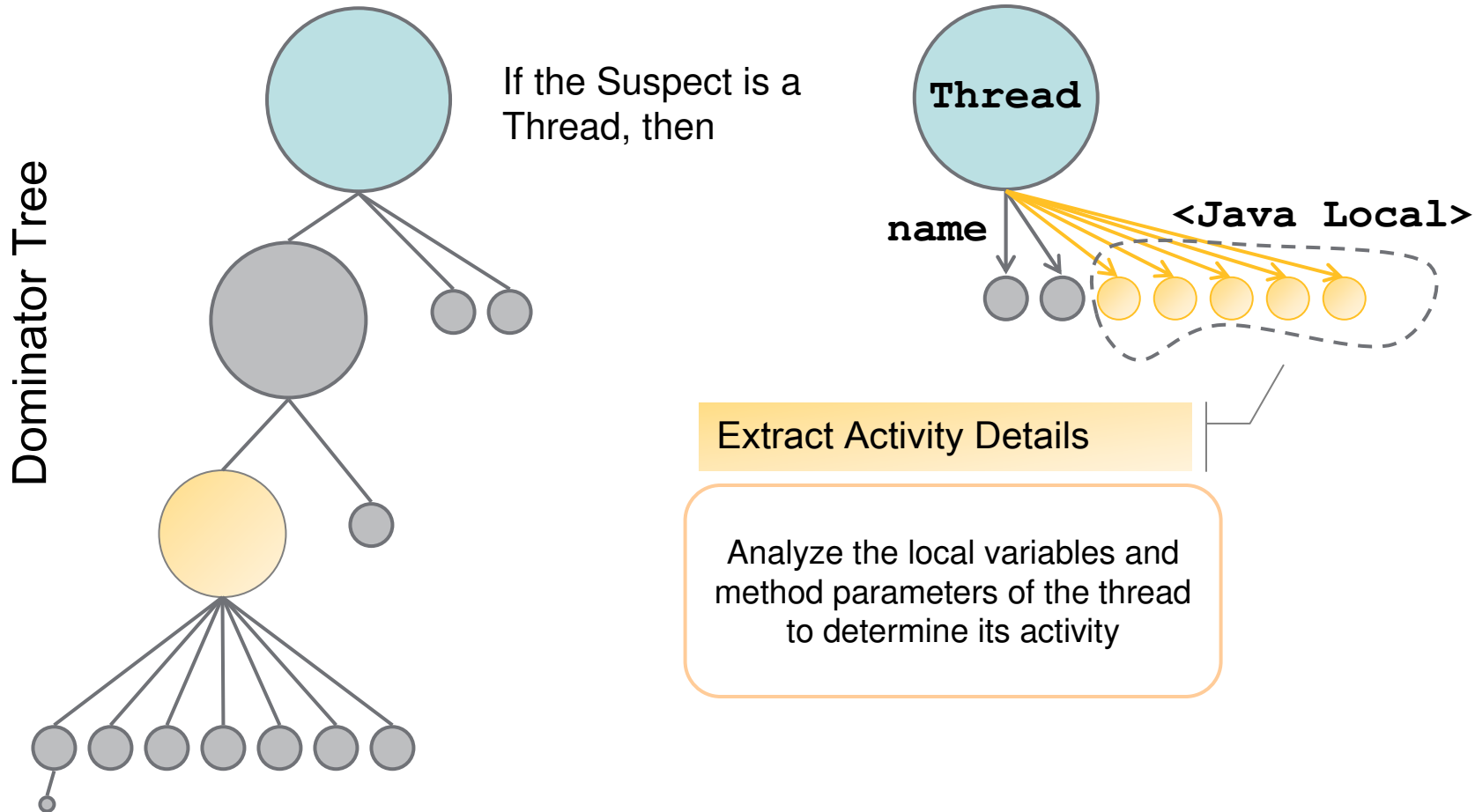


Demo

A Heavy Request Report



How Are Request Details Extracted?





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Infos & Download

Eclipse Home Page

www.eclipse.org/mat/

Forum

eclipse.technology.memory-analyzer

Blog

dev.eclipse.org/blogs/memoryanalyzer



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