Heap Space Memory Management How to guide

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Overview

NOTE: This article is only relevant to version 2 appliances. Please do not refer to it when trying to manage memory in later appliances. Please contact supportdesk@swivelsecure.com for further information

This document outlines how to configure how much memory is used within Apache Tomcat. It may be useful when running multiple instances of Swivel.

Prerequisites

Swivel 3.x

Apache Tomcat

PINsafe Appliance

Login to the Command line through the CMI and verify the memory being used with the command top

The heap space value should be set already, but you can verify and if necessary set the values, see WinSCP How To Guide.

To increase the Heap Space of a Swivel appliance you need to edit catalina.sh in the /usr/local/apache-tomcat-5.5.20/bin folder Add the line at the start of the file after the comments

JAVA_OPTS="\$JAVA_OPTS "-Xmx192m

You should be able to keep adding heap. We have tested over half a Gb of heap (-Xmx512m)

Additional Commands

Memory Usuage

cat /proc/meminfo

Freeing up Memory Cache

frees up page cache, dentries and inodes:

sh -c "sync; echo 3 > /proc/sys/vm/drop_caches"

Testing

Known Issues

Troubleshooting