

Technical Note: Managing Thread Pools in ASAS

This technical note is intended for the Professional Services team that manages Application Storage Automation System (ASAS) in Server Automation (SA).

Storage Agent Thread Pools

To tune system performance, you can modify the thread pool settings for the Storage Agent. Thread pooling controls the execution of various Storage Agent tasks (threads) for operations such as synchronization and metrics collection. If too many threads are running simultaneously, the host performance may decrease, especially if the host lacks sufficient processor speed and RAM. By limiting the number of executing threads, you can optimize host performance.

To modify the thread pool parameters, perform the following steps:

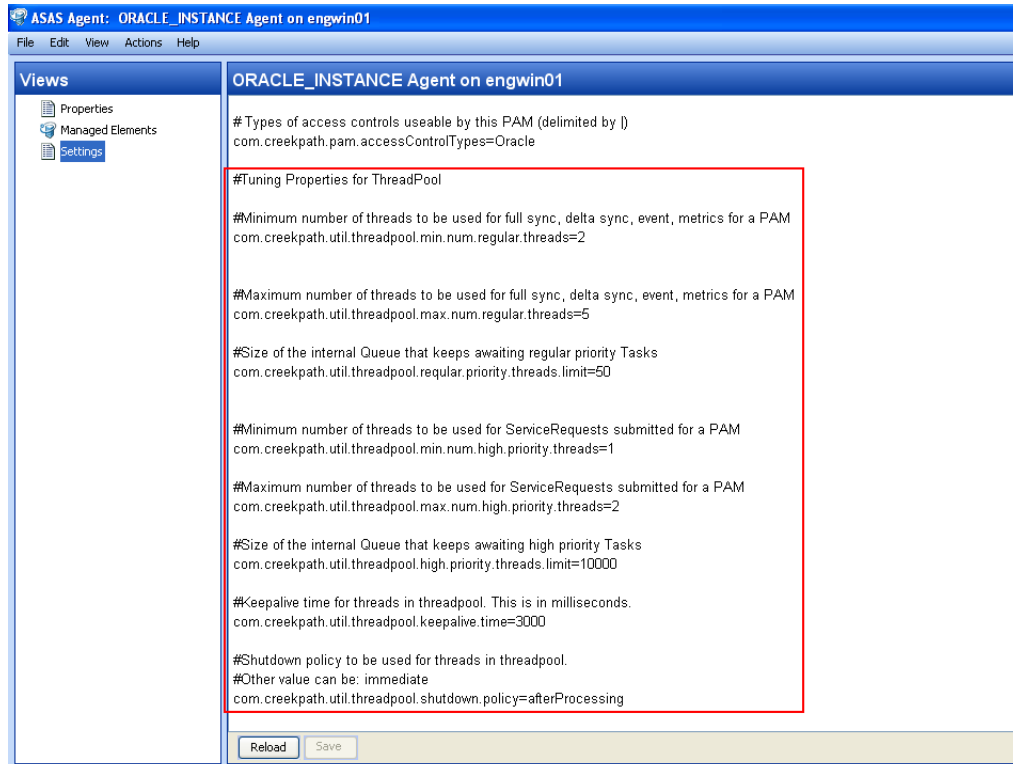
- 1** (Optional) Stop the Storage Agent.

When you change thread pool settings, you are *not* required to stop the Storage Agent.

- 2** From the Oracle Storage Agent browser, in the Views pane, select Settings.

- 3 In the content pane, locate the lines for #Tuning Properties for Threadpools, as Figure 1-1 illustrates.

Figure 1-1: Storage Agent Thread Pool Settings Example



- 4 Change any of the thread pool settings. For a list of these settings and their descriptions, see Table 1-1 on page 3.
- 5 Click **Save** to save your changes.
Or
Click **Reload** to restore the settings to their previous values—before you made changes.

Thread Pool Settings

The following table describes the Storage Agent thread pool settings you can change.

Table 1-1: Thread Pool Settings

PARAMETER	DESCRIPTION
<code>min.num.regular.threads</code> <code>max.num.regular.threads</code>	<p>These threads are used for Storage Agent synchronization. The minimum number of threads cannot be less than 2 and also cannot exceed the maximum number of threads.</p> <p>Note: If the is Storage Agent running, the maximum number of threads cannot be decreased, but it can be increased.</p>
<code>min.num.high.priority.threads</code> <code>max.num.high.priority.threads</code>	<p>These threads are used for service requests, which are tasks performed in the Management Console (such as device synchronization). The minimum number of threads cannot be less than 2 and also cannot exceed the maximum number of threads.</p> <p>Note: If the Storage Agent is running, the maximum number of threads cannot be decreased, but it can be increased.</p>
<code>keepalive.time=3000</code>	<p>This thread specifies how long threads remain idle.The default time is 3,000 milliseconds. This value must be greater than 0.</p>

Table 1-1: Thread Pool Settings (continued)

PARAMETER	DESCRIPTION
<code>shutdown.policy=afterProcessing</code>	The Shutdown policy specifies that threads will stop processing after finishing a task (after Processing) or stop processing whenever the is Storage Agent shut down (immediate).