**The following chart provides system recommendations for running the TestTrack Server application.**

| | | # of records (issues, test cases, test runs, and requirements) across all projects | | | |
| --- | --- | --- | --- | --- | --- |
| | | 50K records | 200K records | 500K records | 1M records |
| # of concurrently logged in users (across all projects) | 10 | 2 CPU cores<br>2 GB of RAM<br>100 GB on hard drive<br> | 4 CPU cores<br>6 GB of RAM<br>400 GB on hard drive<br>*dedicated 64-bit server* | 6 CPU cores<br>12 GB of RAM<br>750 GB on hard drive<br>*dedicated 64-bit server* | 8 CPU cores<br>24 GB of RAM<br>1.5 TB on hard drive<br>*dedicated 64-bit server* |
| | 50 | 4 CPU cores<br>3 GB of RAM<br>100 GB on hard drive<br> | 6 CPU cores<br>6 GB of RAM<br>400 GB on hard drive<br>*dedicated 64-bit server* | 8 CPU cores<br>12 GB of RAM<br>750 GB on hard drive<br>*dedicated 64-bit server* | 10 CPU cores<br>24 GB of RAM<br>1.5 TB on hard drive<br>*dedicated 64-bit server* |
| | 100 | 6 CPU cores<br>4 GB of RAM<br>120 GB on hard drive<br>*dedicated 64-bit server* | 8 CPU cores<br>8 GB of RAM<br>400 GB on hard drive<br>*dedicated 64-bit server* | 10 CPU cores<br>14 GB of RAM<br>750 GB on hard drive<br>*dedicated 64-bit server* | 12 CPU cores<br>28 GB of RAM<br>1.5 TB on hard drive<br>*dedicated 64-bit server* |
| | 250 | 8 CPU cores<br>6 GB of RAM<br>150 GB on hard drive<br>*dedicated 64-bit server* | 10 CPU cores<br>10 GB of RAM<br>500 GB on hard drive<br>*dedicated 64-bit server* | 12 CPU cores<br>16 GB of RAM<br>1 TB on hard drive<br>*dedicated 64-bit server* | 16 CPU cores<br>28 GB of RAM<br>2 TB on hard drive<br>*dedicated 64-bit server* |
| | 500 | 8 CPU cores<br>8 GB of RAM<br>150 GB on hard drive<br>*dedicated 64-bit server* | 12 CPU cores<br>10 GB of RAM<br>500 GB on hard drive<br>*dedicated 64-bit server* | 16 CPU cores<br>16 GB of RAM<br>1 TB on hard drive<br>*dedicated 64-bit server* | 24 CPU cores<br>32 GB of RAM<br>2 TB on hard drive<br>*dedicated 64-bit server* |
| | 750 | 10 CPU cores<br>8 GB of RAM<br>200 GB on hard drive<br>*dedicated 64-bit server* | 16 CPU cores<br>12 GB of RAM<br>600 GB on hard drive<br>*dedicated 64-bit server* | 20 CPU cores<br>20 GB of RAM<br>1.2 TB on hard drive<br>*dedicated 64-bit server* | 28 CPU cores<br>32 GB of RAM<br>2.5 TB on hard drive<br>*dedicated 64-bit server* |
| | 1000 | 12 CPU cores<br>10 GB of RAM<br>200 GB on hard drive<br>*dedicated 64-bit server* | 20 CPU cores<br>14 GB of RAM<br>700 GB on hard drive<br>*dedicated 64-bit server* | 24 CPU cores<br>20 GB of RAM<br>1.4 TB on hard drive<br>*dedicated 64-bit server* | 32 CPU cores<br>36 GB of RAM<br>2.5 TB on hard drive<br>*dedicated 64-bit server* |

**Caveats:**

These estimates are for the TestTrack Server application, not the TestTrack Client application.

These are not minimum requirements, but system configurations recommended for optimal performance. Increased RAM or CPU power may be recommended if the installation has an excessively large number of custom fields, workflow events, dashboard widgets, tracked email, and other data.

**Hard Drive:** This chart roughly estimates the amount of hard drive space used by the typical TestTrack database. This amount may be lower if you do not use any file attachments, but also may be higher if you use many large file attachments. This does not take into account the amount of hard drive space needed for other applications or the operating system.

**RAM:** This chart estimates the amount of RAM recommended for the TestTrack Server. This amount may vary depending on the amount of information stored with the typical TestTrack item (issue, test case, etc.). This does not take into account the amount of RAM required by other applications running on the same computer, such as SQL Server.

**Processor:** This chart estimates the processor speed needed for optimal performance by the TestTrack Server. The recommended processor speed may be higher if you are running other large applications on the same computer. The processor usage will vary based on the activity level of the logged on TestTrack users. Hyperthreading is not considered a true core for these calculations.

**Dedicated 64-bit Server:** Consider running the TestTrack Server on a dedicated 64-bit server when your site starts to exceed 100,000 records or 100 simultaneous user connections. Running on a computer dedicated only to TestTrack guarantees that other applications are not interfering with the RAM capacity and processor usage needed by the TestTrack Server. To run a 64-bit server, you need a 64-bit version of the operating system and the 64-bit TestTrack Server application.

**Virtual Machines:** When running on a virtual machine (VM), RAM must be reserved for that VM and not shared with other VMs. To ensure the VM has sufficient processing power, do not oversubscribe CPU cores. If performance issues occur, Seapine Support may ask you to relocate VMs to temporarily free up resources while troubleshooting to isolate an application performance issue vs. a virtualization environment issue.

**Project Size:** Installations typically average between 10,000 to 100,000 records per project. Splitting the same number of records across a large number of projects increases RAM usage slightly because user options, filters, configuration data, and other project-specific information are duplicated. Storing 100,000 or more records of a single type (e.g., 100,000 issues) in a single project can increase CPU usage due to the time required to perform searches or generate reports because there are more records to search and results to return.