

# EASA Hardware Requirements

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EASA is an enterprise business suite that encapsulates a customer's domain-specific knowledge and computational expertise within a network application called an EASAP.

An EASAP provides a simple, straightforward and flexible user interface which insulates the **User** from the complexity of the underlying software.

An EASAP may recruit 'live' Excel spreadsheets, batch programs, database operations or other processing software to complete a task.

Thus an EASAP may require significant computational resources such as:

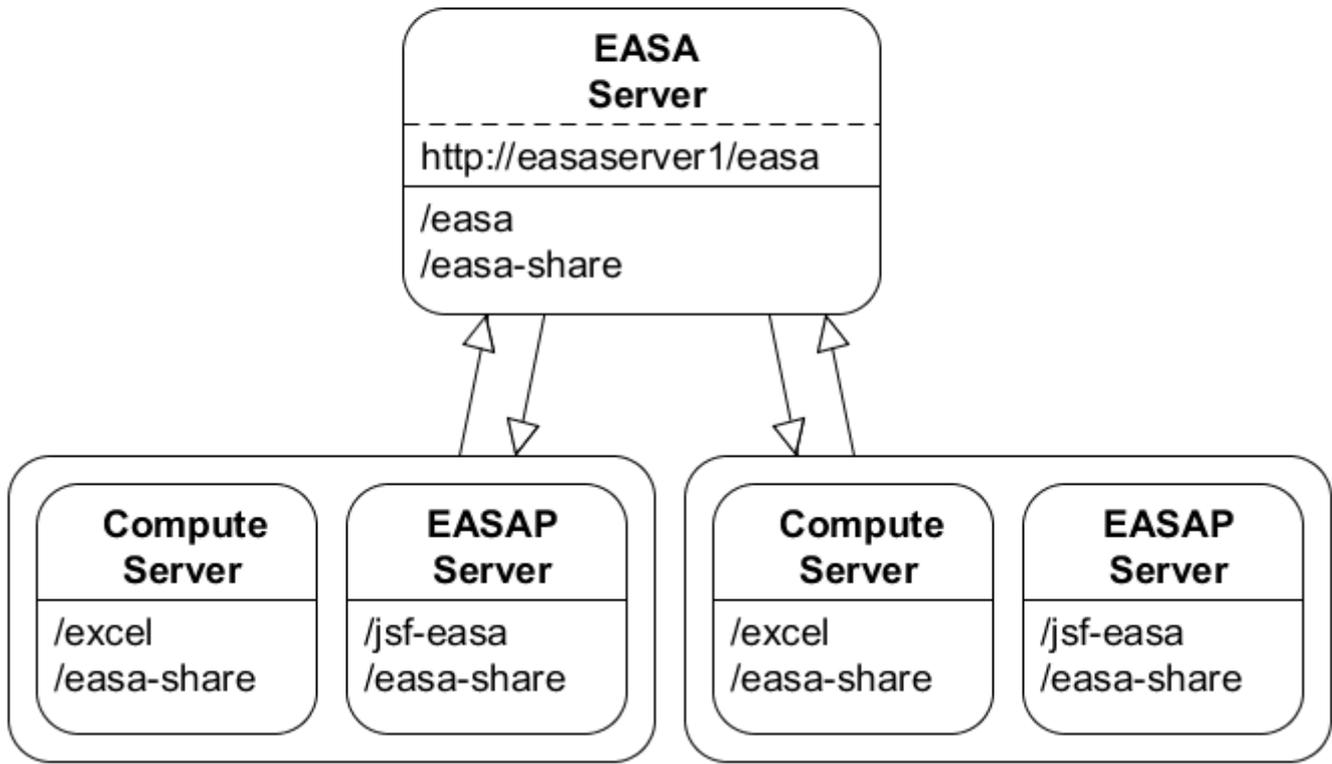
- Multiple multi-core processors
- Sufficient free memory (RAM) to meet the dynamic demand of multiple **Users**
- Specialized machines known as **Compute Servers** (often **Excel Servers**) that scale heavy computation across multiple machines.

The following is a general guideline for any machine running EASA:

- 2GB memory for the Windows Operating System
  - 4GB memory for **EASA Server, EASAP Server, Excel Server** or other **Compute Server**
  - .5GB memory times the number of desired Excel processes for an **Excel Server**
  - 1 CPU core per 5 desired Excel processes for an **Excel Server**
  - 40GB of disk space
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## Example of an EASA cluster

## EASA Server and two EASAP/Compute Servers



Below is a recommended hardware specification for a machine configured as a combined **EASAP/Excel Server** that supports 20-40 Excel processes. Two or more of these may be networked together with a lower spec **EASA Server** to form a scalable cluster (above schematic).

- 8 core CPU Xeon machine (enable Hyper-Threading)
- 10-20GB of memory

An **Excel Server** (physical or virtual) and its demand for Excel processes, will gain performance from:

- A greater number of CPU cores
- A higher quantity of memory

The above is a general suggestion. An EASAP will run on a system with fewer resources, though a larger cluster of machines may become necessary if **User** load increases.

While EASA's hardware requirements are CPU/chipset vendor agnostic, past experience has demonstrated excellent performance using **Intel® Hyper-Threading Technology**. Where EASA is installed on an **Intel® HT** architecture, Hyper-Threading should be enabled.