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# Adding Resources to Your MedeA Installation

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## 1 Introduction

Previous sections guide you to create a working system on your computer: the *MedeA* graphical user interface (GUI), the JobServer, and the TaskServer are all installed and working together. This is perfect for learning to use the interface and run your first calculations.

Adding resources to your *MedeA* installations can be accomplished in many different ways, and there are plenty of solutions. The following sections cover most cases:

- Adding another GUI
- Linking another JobServer
- Adding more TaskServers

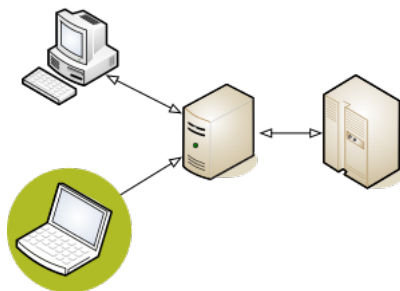
The clear separation into three tiers allows for adding or changing components without impact to ongoing calculations.

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**Note:** Before reading further, ensure you have read the following sections on installing and configuring MedeA, the JobServer, and the TaskServer:

- [Installing MedeA on Windows with the Windows Installer](#),
  - [Installing MedeA on Windows and Linux from ISO](#), and
  - [JobServer and TaskServer Administration and Configuration](#)
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## 2 Adding Another GUI



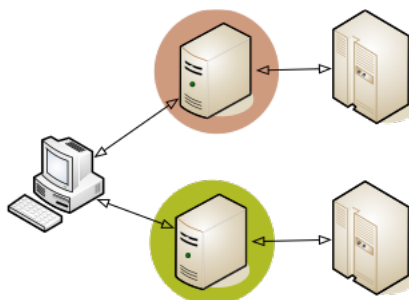
To add a second GUI on a laptop/desktop to access an existing JobServer, perform a custom installation without installing the JobServer and TaskServer.

GUI	JobServer	TaskServer
Install: <i>MedeA</i> GUI and databases		
Save new license: C:\MD\ (Windows) or ~/MD/ (Linux)		
Connect to JobServer: Edit <i>MedeA</i> Preferences	Name IP-address	

There is no need to install JobServer and TaskServer unless you would like to run calculations directly on the new computer. You will need to get a license for the new machine.

If you have changed *MedeA* preferences, you can copy the *MedeA* environment settings file, *MedeA.settings* from your home directory, abbreviated as `~`, to the home directory on the new machine. On Windows 10, this is normally `C:\Users\<Username>`. On Linux, the command `cd` or `cd ~` take you into your home directory.

## 3 Installing Another JobServer

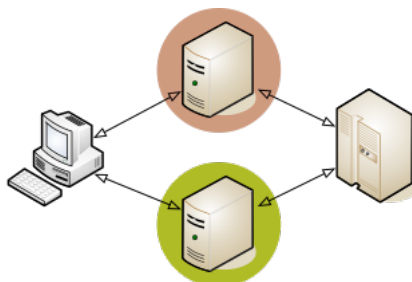


Adding another JobServer involves all three tiers as the JobServer is the central piece of the *MedeA* installation. The JobServer talks to the graphical GUI and the TaskServers. The installation process is split into two parts, first to add and test another JobServer without interrupting the running JobServer. The next section will deal with replacing an existing JobServer.

**Warning:** Do not connect two or more JobServers to the same TaskServer. This should be a temporary solution for testing purposes as this can result in files being overwritten and corrupted.

GUI	JobServer	TaskServer
	Install: JobServer	
Add new JobServer to Preferences	Name IP-Address	
	Create Queues	
	Attach TaskServer	Name IP-Address

During the custom installation select only JobServer and perform configuration as a service. Create queues and attach TaskServers as described in section JobServer Administration and Configuration. On the *MedeA* GUI, add the new JobServer via **File >> Preferences >> Job Servers** .



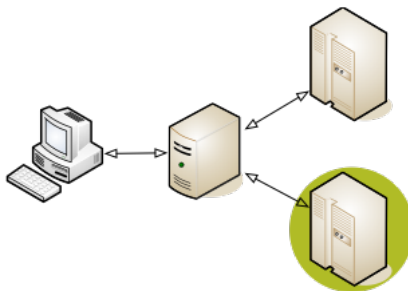
## 4 Replacing the JobServer

When planning to replace an existing JobServer, the previous procedure creates a new JobServer, but it leaves the need to transfer the existing results to the new JobServer to have all computed results in one central place.

GUI	JobServer	TaskServer
	Install: JobServer	
Add new JobServer to Preferences	Name IP-Address	
	Create Queues	
	Attach TaskServers	Name IP-Address
	Import jobs: Maintenance	
Delete old JobServer in Preferences	Name IP-Address	

During the custom installation on the new machine, only install JobServer as a service. Duplicate your existing JobServer by creating the same *Queues* and attach the existing TaskServers. You can rename and change settings based on the experience gained in the meantime. You can use the MDmaintenance program to import the Jobs to the new JobServer, provided the Job directory is accessible to both machines, for example, by sharing the directory on the local network. After testing and transferring you can remove the entry of the old JobServer from **File >> Preferences >> Job Servers** The Job directory still contains all the calculated results - delete only after verifying that the import worked exactly as planned.

## 5 Adding More TaskServers



GUI	JobServer	TaskServer
		Install TaskServer
	Add TaskServer	Name IP-address
	Attach to JobServer queue	
		Adapt job scheduler integration script template<scheduler>.tcl

First, install only the TaskServer component on the new compute node and record its IP address. Then from the JobServer, open the MDMaintenance program. From click **Manage MD Services**, then add a **Queue name** and **User** and click **Add TaskServer and Queue**. If feeding into an external job scheduler, adapt the respective scheduler integration script. Finally, add the TaskServer to the list of TaskServers known to the JobServer and attach to selected Queues.