

Adding Resources to your MedeA

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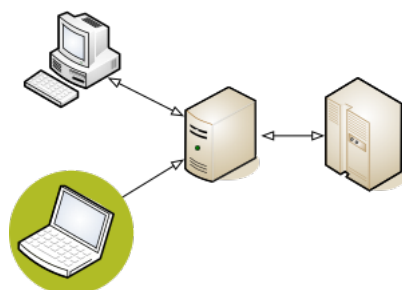
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The first Installation from the ISO guides you to create a working system on your computer: the *MedeA* front end, the JobServer, and TaskServer are all installed and working together. This is perfect for learning to use the interface and run your first calculations.

Adding resources to your *MedeA* installations can be accomplished in many different ways, and there are plenty of solutions. The following section covers most cases: Adding another front end, migrating to a bigger repository for Jobs, and adding more computing power.

The clear separation into three tiers allows for adding or changing components much impact on ongoing calculations, as a quick guideline, only the tier and its neighbor are affected.

1 Adding Another Front End



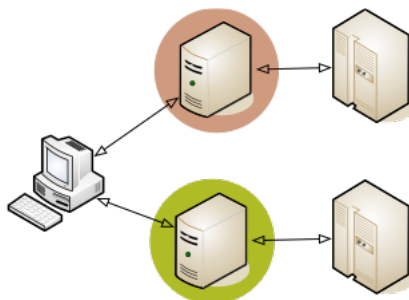
Starting with a simple and common procedure, to add second front end on a laptop to access the already finished calculations on the existing *MedeA* installation. There is no need for a complete installation, as the laptop is frequently turned on and off.

GUI	JobServer	TaskServer
Install from ISO: <i>MedeA</i> + SQL + databases		
Get new license: C:/MD/2.0/license.txt		
Connect to JobServer: Edit <i>MedeA</i> Preferences	Name IP-address	
Copy environment settings ~/ <i>MedeA</i> 2.settings ~/ <i>MedeA</i>		

Perform a custom installation without installing the JobServer and TaskServer. You will need to get a license for the new machine.

If you have some custom additions to *MedeA*, you should copy the environment settings from your home directory, abbreviated as ~, to the home directory on the new machine. On Windows just open a command shell (prompt) and type %HOMEDRIVE%%HOMEPATH% to find this directory, which is normally C:\Documents and Settings*<Username>*. On Linux the command *cd* or *cd ~* take you into your home directory.

2 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 front end 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

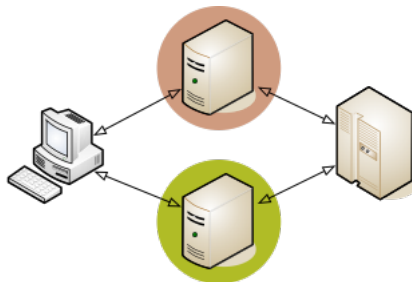
Do not connect two or more JobServers to the same TaskServer. This should be a temporary solution for testing purposes as this can result in files being overwritten and corrupted.

GUI	JobServer	TaskServer
	Install from ISO: 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 Working with Multiple Queues Adding additional MedeA Queues

Add the new JobServer via **File>>Preferences>>Job Servers.**



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 already computed results to the new JobServer to have all computed results in one central place.

GUI	JobServer	TaskServer
	Install from ISO: JobServer	Install from ISO
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 only install: *SQL*, *JobServer*, and *Configuration 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.

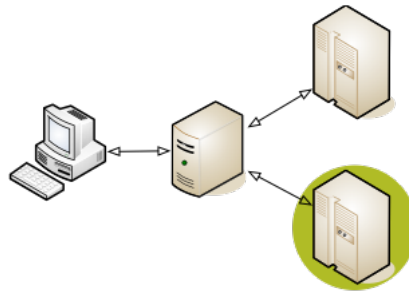
You can use the maintenance tool to import the Jobs to the new JobServer, provided the Job directory is accessible to both machines, for example by sharing the directory on the local network.

The imported Jobs have to be attached to a queue - this is done with the web interface of the JobServer.

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.

3 Adding More TaskServers



GUI	JobServer	TaskServer
		Install from ISO: TaskServer
	Add TaskServer	Name IP-address
	Attach to Queue	
		Adapt Queue_Template.tcl

A new TaskServer can also be added using the MDMaintenance program. Click **Manage Daemons** , then add a **Queue name** and **User** and click **Add TaskServer and Queue** .

To add a TaskServer from ISO and create the service.

If feeding into a batch system, adapt the respective queue (batch) script.

Finally add the TaskServer to the list of TaskServers known to the JobServer and attach to selected Queues.