

EDGeS

Project acronym: EDGeS

Project full title: Enabling Desktop Grids for e-Science

Grant agreement no.: RI 211727



Tutorial:

Application Deployment

(Uppercase Application)

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1 Deploying the Uppercase application

1.1 *You do not have to bother with the preparation of the archive required by the deployment script, it can be generated automatically with make*

```
make package
```

1.2 *Execute the deployment script*

```
boinc_appmgr --add uppercase_1.00.tar.gz
```

1.3 *The application has been deployed, after restarting the server, the clients can start to work*

```
stop  
start
```

2 Starting the BOINC client

2.1 *Open a shell on the local (tnXX) machine*

2.2 *(Create a directory and) enter*

```
mkdir BOINC  
cd BOINC
```

2.3 *The BOINC client should be started with the following command*

```
boinc --gui_rpc_port 6667
```

2.4 Open another terminal, enter the BOINC directory and start the manager

```
cd BOINC  
boincmgr
```

2.5 Switch to advanced view

2.6 Go Advanced > Select Computer, and enter the following as host name

```
localhost:6667
```

The password field should fill out automatically.

2.7 The client will show you a pop-up window, where you can attach your client to a project

2.8 Click on Next

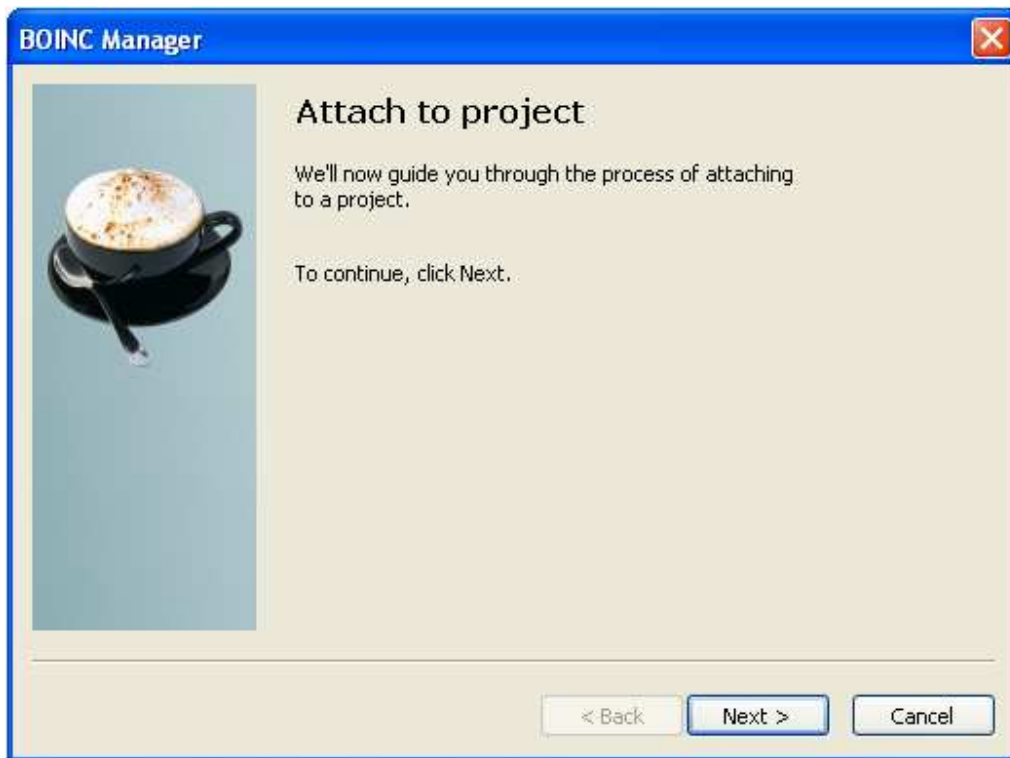


Figure 1 Attaching a project

2.9 Enter the URL of your project (same as the URL of the website) and click Next

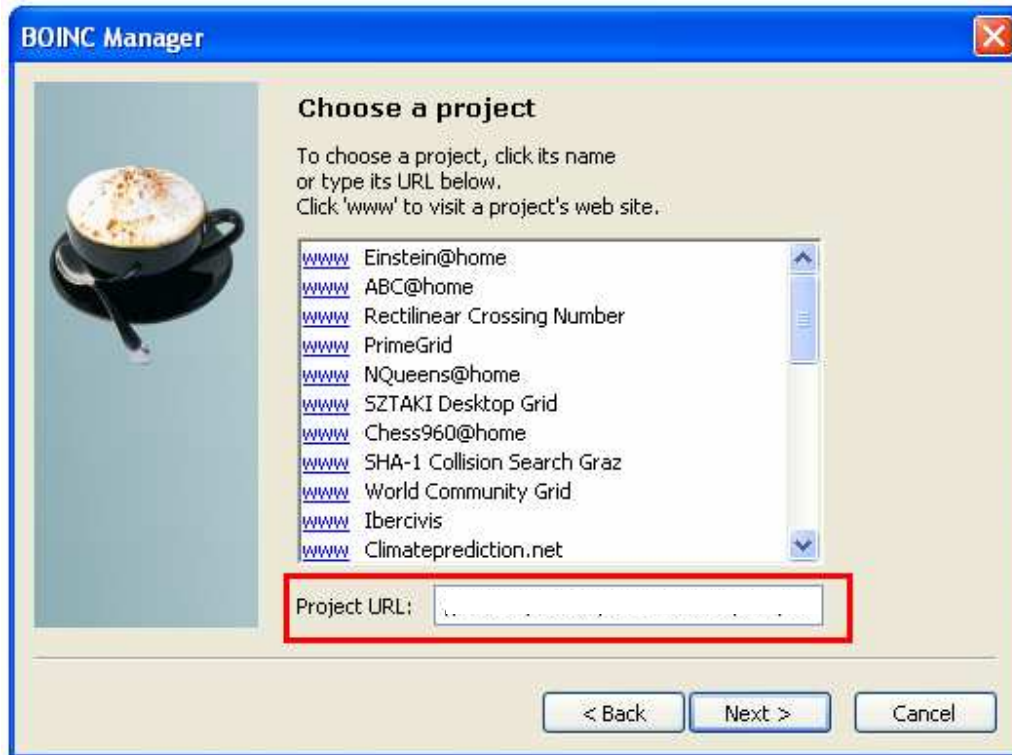


Figure 2 Entering the Project URL

e.g.:

http://vm128.terem/sample

2.10 Create a new user account and click Next

BOINC Manager

User information

Are you already running this project?

No, new user Yes, existing user

Email address:

Choose a password:

Confirm password:

minimum length 6

[Forgot your password?](#)

< Back Next > Cancel

Figure 3 Creating a user account

2.11 If everything is OK, you should see the following

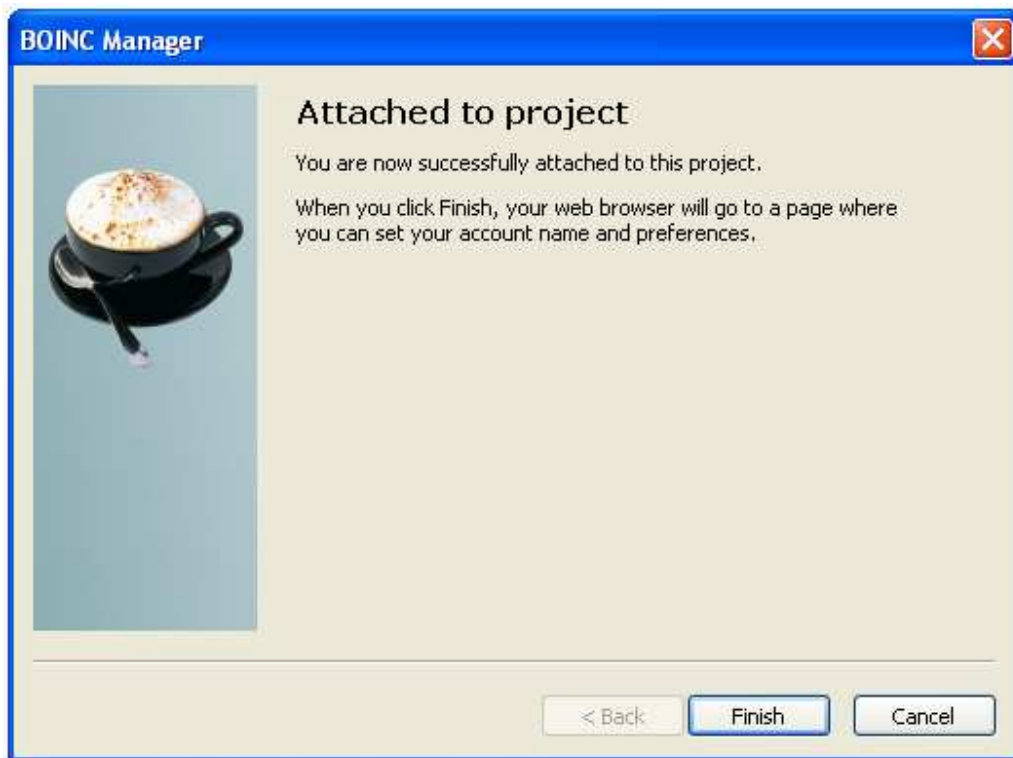
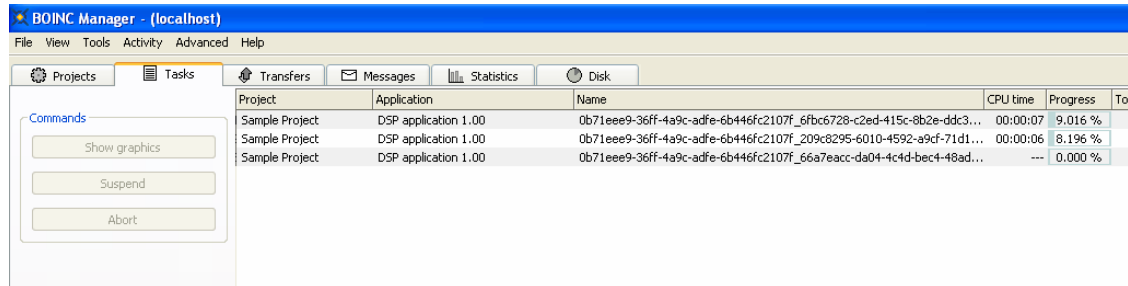


Figure 4 Successfully attached to the project

3 Checking the status of the computation

3.1 Click on the Tasks tab to see the status of the computation



The screenshot shows the BOINC Manager interface with the 'Tasks' tab selected. On the left, there are 'Commands' buttons: 'Show graphics', 'Suspend', and 'Abort'. The main area displays a table with the following data:

Project	Application	Name	CPU time	Progress	To
Sample Project	DSP application 1.00	0b71eee9-36ff-4a9c-adfe-6b446fc2107f_6fbc6728-c2ed-415c-8b2e-ddc3...	00:00:07	9.016 %	
Sample Project	DSP application 1.00	0b71eee9-36ff-4a9c-adfe-6b446fc2107f_209c8295-6010-4592-a9cf-71d1...	00:00:06	8.196 %	
Sample Project	DSP application 1.00	0b71eee9-36ff-4a9c-adfe-6b446fc2107f_66a7eacc-da04-4c4d-bec4-48ad...	---	0.000 %	

Figure 5 Progress of the computation

The master will receive the results in a few minutes. In the meantime, connect your client to your neighbours' projects as an exercise.