

## Virtual Server Capacity for Research (SciCloud)

SciCloud is based on the European cloud middleware OpenNebula (ONE) and offers a service that allows users to quickly start with a virtual server based on available templates, or to upload one of their own virtual images. This concept is known as Infrastructure as a Service (IaaS).

### SciCloud functionalities

- A virtual server with guaranteed CPU power and reserved RAM;
- Full administrator (root) access, so that the server can be adapted to your own wishes;
- A choice of templates with Windows and Linux operating systems;
- Install an OS yourself? That is also possible. Provide the requested resources and ITvO makes it possible;
- Linking to shares on SciStor is possible;
- Monitoring of operation and used capacity of the virtual server through a web portal.

### Storage

IT for Research (ITvO) offers SciCloud, a service where server capacity can be purchased to support research applications. SciCloud virtual servers are easy to implement, easy to scale up and down and have competitive pricing based on agreed purchase. The virtual server can be placed in an internal or externally accessible network. Externally to be approached from all over the world, or internally for better protection and access to VU IT services.

By default, the virtual server is provided with 30 GB of storage capacity. Do you need more storage? Then a link with SciStor storage is a possibility and thus provides access to fast storage. ITvO can advise on this.

### Backup

It is possible to take snapshots or clones of the virtual server yourself. This allows you to go back to a previously created configuration, if necessary. In addition, ITvO makes daily backups with which (on request) a virtual machine can be restored up to a month ago.

### Requesting process

After you have requested a SciCloud virtual server, one of the IT for Research employees will schedule an interview after receipt of the application. Based on the wishes, personal advice and a cost estimate are then made. Purchase of virtual server capacity takes place according to standard building blocks, so that the server capacity is used optimally. This means that combinations of the following two options can be purchased:

- Building Block 1: 1 CPU core with 2 GB RAM

- Building Block 2: 1 CPU core with 4 GB RAM

Different configurations are possible in consultation and based on availability.