## Starting Grant Application form: Cloud component of the Flemish Tier-1 supercomputing platform

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| Title of the application:    Applicant name, first name:    Institution:    Research group / department:    E-mail address:    VSC id of the applicant:    **Disclaimer**  Only a limited amount of resources, subject to availability, can be made available in an approved Tier-1 Cloud Starting Grant, allocated for a period of 4 months. |

1. Motivate your application: why specifically do you want a Starting Grant on the Tier-1 Cloud component?
2. The applicant will be responsible to manage the Tier-1 cloud resources within the framework of this Starting Grant. This includes a.o. updating software packages, operating systems, containers, …

The applicant is responsible for installing a secure authentication method for possible trial end-users of the services deployed by the applicant on the Tier-1 cloud infrastructure as part of this Starting Grant.

The applicant needs to declare to agree with the UGent AUP.

1. Provide information about the main software packages and/or services that will be installed, configured and maintained by the Applicant:

* Operating system to be used inside the VMs (e.g. CentOS, Ubuntu, Windows, …)
* Databases (e.g. MySQL, Postgres, …)
* Orchestrators (e.g. Kubernetes ...)
* Other software packages and/or services.

For all software state that the associated license can be validly used by all mandated users on the desired Tier-1 Cloud VMs. Add a copy of the signed license to this application where relevant.

1. State which resources you are applying for. Start by using Table 1 to summarize the resources requested for the project.

* **Project wide resources are**:
  + Shared filesystem (via NFS for now), in GB;
  + VSC network access (yes/no; if yes, you will receive a block of eight IPv4 IPs);
  + Public network access (by default you receive one IPv4 IP address. If you don’t need it (e.g. you can connect via the VSC network), or you need more than one, please motivate why the standard port-forwarding is not an option).
* **Per-flavour resources** (for each of the 3 flavours UPSv1, CPUv1 and GPUv1):
  + Total number of VMs;
  + Total number of vCPU (meaning here and items hereafter: summed over all VMs of same flavour);
  + Total number of vGPU;
  + Total amount of RAM (in GB);
  + Total amount of persistent local disk space (in GB).

The flavours of the virtual machines are appropriate for different workloads: CPUv1 for regular CPU usage, GPUv1 for GPU computations, or UPSv1 for VMs that need to be connected to an uninterruptible power supply. CPUv1 and GPUv1 virtual machines are not supported by an UPS and will go offline when an unexpected power cut occurs. You can find more information about the machine flavours in the Tier-1 Cloud documentation:

<https://hpcugent.github.io/vsc_user_docs/pdf/intro-Cloud.pdf>

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| **Project wide resources** |  |
| Shared filesystem |  |
| VSC network access | YES/NO |
| Public network access |  |

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| **Per flavour resources** | Starting Grant Period (1m-4m) |
| **UPSv1** |  |
| Total number of VMs |  |
| Sum of vCPU (summed over *all VMs* of this flavour) |  |
| Sum RAM (GB) (*all VMs*) |  |
| Sum of persistent local disk space (GB) (*all VMs*) |  |
| **CPUv1** |  |
| Total number of VMs |  |
| Sum of vCPU (summed over *all VMs* of this flavour) |  |
| Sum RAM (GB) (*all VMs*) |  |
| Sum of persistent local disk space (GB) (*all VMs*) |  |
| **GPUv1** |  |
| Total number of VMs |  |
| Sum of vGPU (summed over *all VMs* of this flavour) |  |
| Sum RAM (GB) (*all VMs*) |  |
| Sum of persistent local disk space (GB) (*all VMs*) |  |

Don’t hesitate to consult the Tier-1 Cloud support when you are preparing your application: [cloud@vscentrum.be](mailto:cloud@vscentrum.be)