ETAIS

• Estonian Scientific Computing Infrastructure, https://etais.ee
  • University of Tartu
  • Tallinn University of Technology
  • National Institute of Chemical Physics and Biophysics
  • Information Technology Foundation for Education.

• Project started in 2016

• Self-service portal for requesting VM’s and computational resources from different instances (Similar to AWS/S3)

• We will using it as a frontend for the University of Tartu cloud instance where your lab Virtual machines are kept
Creating your VM in minu.etais.ee

• First you need to add your SSH keys, as password login is disabled by default
  • NB – Do not lose this key as it is probably the only authentication you will have. Losing the key might mean a full VM reset.

• From your personal project you must create a Private Cloud

• Full details can be found this weeks lab guide.

• In case you are not in the university network(eduroam) you will need a VPN connection to access your machine
Ansible

Ansible is a tool for automating data gathering, configuration management, application deployment and more. You will be writing Ansible in YAML syntax which is easy to read and grasp do describe the automation tasks. Ansible connects to your VM over ssh and pushes small “programs” aka Ansible modules to your VM. In this course we will be using Ansible to automate the bulk of our workload. Using Ansible and playbooks of your own creation during the exam is highly encouraged.
Gitlab

Git is a version control system for your projects. While www.github.com is a free public alternative, we will be using a course-wide gitlab instance to store your projects.

- Access at https://gitlab.sa.cs.ut.ee with your UT credentials
- Choose authentication method LDAP
- Create your own personal project
- As always, full details in the lab guide
Lab 2 overview

• Setting up your SSH public-private keypair
• Starting a VM
• Adding the scoring user and verifying connectivity
• First steps in Ansible to complete this weeks lab
• Uploading your Ansible repo to the course Gitlab