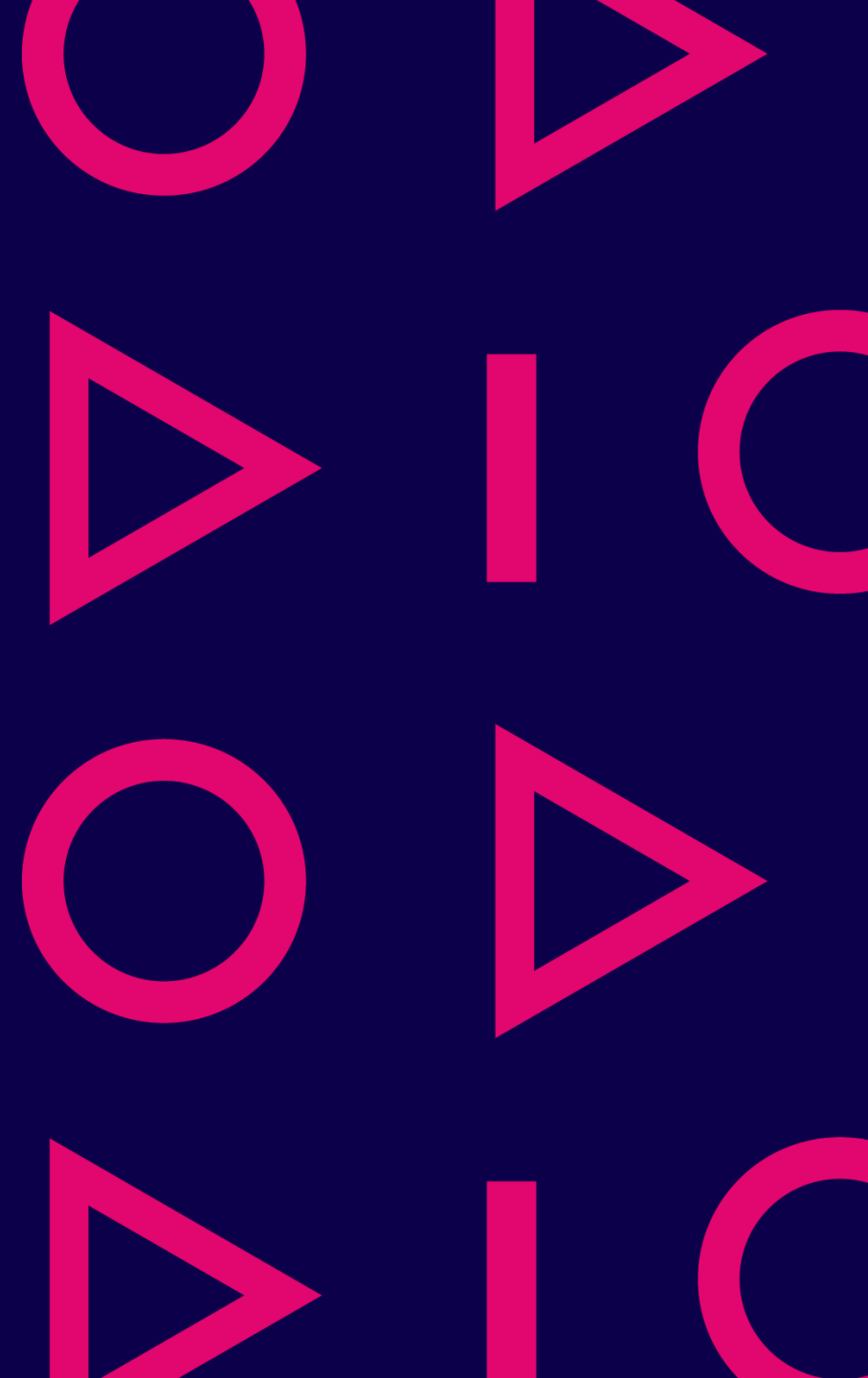


LabraNet info



Content

- JAMK common ICT systems
- LabraNet
- LabraNet services
- Virtualization
- Remote access
- Academic subscriptions
- Other

JAMK ICT systems

- JAMK:n common ICT systems
 - Office 365 (outlook, onedrive, teams, ...)
 - Peppi
 - Moodle
 - Elmo
 - Zoom
 - Vetuma
 - WLAN (Eduroam)
- helpdesk.jamk.fi

LabraNet

- IT institute learning and laboratory environment
- Available only in Dynamo
 - Rooms -> <https://student.labranet.jamk.fi>
 - Dynamo building right wing 3. and 4. floor
- Remote access with VPN
- Administration
 - Laboratory engineers and specialists administer the networks and services. Office in D332, third floor right wing.
 - Kari Nurmi
 - Juha Jokinen
 - Jani Hallberg
 - Henrik Saari
 - Lauri Korte
 - Niko Taari

LabraNet

- Services for IT students
- Enables laboratory exercises
 - Connections to different laboratory environments
- Network monitoring and management
- Course specific applications
- Accounts are generated based on course enrollment and information is sent to JAMK student email

Z-drive and S-drive

- Student personal network drive for storing files
 - Shows as Z-drive in file manager
 - Quota 1G
- Student server has 200MB space per user
 - S-drive

Diskspace and user profile

- User profile is located in network drive and moves with sign ins between workstation
- Desktop, Downloads ja My Documents are redirected to Z-drive
 - Not moved with sign in
 - Consume Z-drive 1GB quota

User profiles

- User profile is located under C:\Users\username
 - Is moved between workstations
 - Max 120 MB
 - If the profile is full, it can't be moved and changes to settings are lost

Storing files

- It is recommended to store files in workstation local D-drive while working and copy the files to Z-drive after finishing
- You can also use your personal usb-drives
 - Lost usb drives can be inquired from our office at D332

Ghost network drive

- `ghost.labranet.jamk.fi`, common network share for temporary use
- Anyone can modify or remove files

Backups

- Students are responsible for their own files
 - Files are restored from backups only in critical situations
- Following drives/servers are backed up:
 - \\storage\homes (user home folders, z-drive)
 - Project virtual machines
 - Student-server
- Following drives/servers are NOT backed up:
 - \\ghost\temp
 - Workstation local drives
 - Course generic virtual machines

Printing

- Printers are located in 3. and 4. floor hallways
- Printing quota is 300 pages / semester
- Issues, such as running out of toner should be reported to LabraNet administration
- Printing paper is available from janitors office at the 1. floor

Student-server

- Linux-server for IT institute students
 - `student.labranet.jamk.fi`
- Accessible through SSH-connection (e.g. PuTTY)
- File transfers using SCP/SFTP (e.g. WinSCP)
- Login with LabraNet credentials
 - Note: first letter uppercase
- Student web pages:
 - `https://student.labranet.jamk.fi/~userid/`

Student-server

- LAMP
 - Databases on separate servers
 - PHP runs with user privileges
- Student-server home folder mounted as S-drive on LabraNet workstations
 - Requires logging in at least once to the server with SSH (home folder is created on first logon)

Database servers

- Available from classrooms and through VPN
- MariaDB <https://mariadb.labranet.jamk.fi/>
 - Authentication with LabraNet credentials
 - Database creation
 - Database password reset
- PostgreSQL <https://postgres.labranet.jamk.fi/>
 - Same operating principles as the MariaDB server

LabraNet Gitlab

- Web-based Git repository manager with additional features, such as wiki, issue-tracking and CI/CD
- Log in with LabraNet credentials
- gitlab.labranet.jamk.fi

Laboratory environments

- Virtual Learning Environment (VLE)
 - Pre-build laboratory/exercise environments for courses
 - <https://index.vle.fi/>

Virtualization

- Some courses use virtual machines for exercises
- Virtual machines can be run on local workstations or in LabraNet servers
 - VirtualBox software can be used to run virtual machines on workstations
 - VLE

Remote access

- LabraNet services are available remotely through:
 - VPN
 - Virtual Private Network
 - Computer connects to LabraNet network
 - Allow using the services same way as from LabraNet workstations
 - E.g. access to network drives
 - Instructions on creating VPN connection with different operating systems:
<https://student.labranet.jamk.fi/vpn-to-labranet/>
 - SSH
 - Connection to student server, student.labranet.jamk.fi

Academic subscriptions

- Free software for IT institute students and staff
- Azure Dev Tools for Teaching
 - Microsoft products (Windows, Visual Studio, SQL Server, ...)
 - Access with JAMK credentials
 - <https://helpdesk.jamk.fi/en/home-use-licenses/>
- VMware Academic Program
 - Workstation, Fusion, vSphere
 - Only for non-commercial study purposes
- <https://student.labranet.jamk.fi/academic-subscriptions/>

Other

- Inactive LabraNet account activation through our ticketing system
 - Email helpdesk-labranet@jamk.fi from our JAMK student email
- Self service password resets
 - <https://student.labranet.jamk.fi/passwd/>
- Service requests / issue reports through our ticketing system
<https://helpdesk.labranet.jamk.fi>
- On urgent issues, contact us directly at D332

Questions?