

# LabraNet info



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# JAMK ICT systems

- JAMK:n common ICT systems
  - Office 365 (outlook, onedrive, teams, ...)
  - Peppi
  - Moodle
  - Elmo
  - Zoom
  - Vetuma
  - WLAN (Eduroam)
- [helpdesk.jamk.fi](https://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, 3rd floor, right wing.
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# 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, moves to the workstation with every sign in
- 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 network drive and the workstation
  - Max 120 MB (smaller the better)
  - If the profile is full, it can't be moved and changes to the settings are lost



# Storing files

- It is recommended to store files on workstation to local D-drive while working and copy the files to Z-drive afterwards (faster)
- 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](https://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 can be 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 (info)

# 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](https://gitlab.labranet.jamk.fi)



# Laboratory environments

- Virtual Learning Environment (VLE)
  - Self service laboratory/exercise environments for courses
  - Possibility to work in environment locally and remotely
  - <https://index.vle.fi/>

# 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](mailto: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?