



GWDG INFORMATION

Services for the
University of Göttingen –
Basic Services

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Supporting you is our mission! – Challenge us!

Excellent research at the University of Göttingen needs an efficient and innovative IT infrastructure which should exceed standards and surpass your expectation. The GWDG is computing and IT competence centre for the the University of Göttingen and the Max Planck Society and serving the needs of science. For nearly fifty years, we offer to our customers a broad spectrum of IT and communication services.

On the one hand, the GWDG provides relevant basic IT services which must be reliable, economic and efficient so that you can carry out scientific work productively. On the other hand, there exists an increasing demand for cutting-edge and specific support to enable successful eScience and data management. In both areas we are committed to provide tangible services and practical advice on the basis of years of experience and competence. Our goal is to support you in your IT requirements in the fields of research, teaching, and administration.

Through our own research in the area of applied computer sciences and participation in numerous research projects, we create the foundation for innovative and customer-oriented IT solutions.

Having an extensive service catalogue, we have compiled a selection of interesting services for this brochure. For the University of Göttingen, the provision of basic and associated services is typically free of charge as part of our basic support. Moreover, we naturally offer you additional services as well. Please contact us – we will find a suitable solution for your requirements.

Data Archiving



YOUR REQUIREMENT

You would like to permanently store and protect files of a completed project or a large collection of data, which will seldom be used or used only after several years. You look for long-term archiving of research data to adhere to good scientific practice and common data policies.

OUR OFFER

We operate tape archive servers to provide long-term storage for large files with hierarchical storage management (HSM) for easy access. Files are migrated to tape storage automatically if not in use, and transparently recovered within minutes when accessed again. In addition we offer services to store structured datasets where metadata should remain searchable even in archived state. We are happy to support your efforts in integrating long-term archiving into your data management process or help you plan migrations of particularly large data collections.

PRECONDITIONS FOR USE

Every user with a valid GWDG account can use the HSM archiving service.

>> www.gwdg.de/archiving

Your Advantages

- You do not need an archiving infrastructure of your own, a network connection is sufficient.
- You can permanently and safely store large amounts of data.
- The data is redundantly stored with at least two tape copies in two different locations.
- You can mount the archiving directory as a normal network drive independently of your operating system.

Backup



YOUR REQUIREMENT

You want to back up your files and combine different devices. You have a lot of data to back up and want a simple configuration. The backup should only contain the changed data and should not burden your mobile data volume. You want access to the backups via the web and from mobile devices. Intervals and retention times should be easy for you to configure yourself. Access by third parties should not be possible.

OUR OFFER

With “IBM Spectrum Protect (TSM)” and “Code42 (CrashPlan PROe)”, we offer you two solutions that meet the requirements mentioned above: IBM Spectrum Protect is suitable for backing up servers with several million files and objects. Code42 is aimed primarily at users of devices, like PCs and notebooks. Both services use GWDG hardware, offer encryption and meet the requirements of IT security and data protection.

PRECONDITIONS FOR USE

Both backup services are available to all institutes of the University of Göttingen. For Code42 there is an allocation of the license costs.

>> www.gwdg.de/backup-en

Your Advantages

- Storage in the GWDG data centres and thus geographical separation of original data and backup copies
- Client software for all common operating systems
- (E-mail) notifications about the success of the backup
- IBM Spectrum Protect:
 - Magnetic tape robots in the background also allow the backup of large amounts of data (in the range of several 10 TByte per machine).
 - Numerous versions possible due to low-cost storage
- Code42:
 - The combination of several devices and the web interface allow easy access to the secured data, even if the secured device is lost or defective.
 - Extensive configuration options both for the user and the administrators in the institutes and working groups

File Service



YOUR REQUIREMENT

You need local storage for you and your work group. If your storage is running short or you want to use your data on several computers then you might prefer to store your files on centrally provided storage – accessible at any time and with flexible and scalable capacity.

OUR OFFER

We operate enterprise file servers providing scalable mass storage in different performance classes which you can use. Your available storage capacity (disk quota) can be adapted and grow with your scientific requirements.

PRECONDITIONS FOR USE

The service is available to all institutes of the University of Göttingen. You need a client (supporting e.g. NFS or smb) for accessing the file servers.

>> www.gwdg.de/fileservice-en

Your Advantages

- You do not need any infrastructure of your own, a network connection is sufficient.
- Under different operating systems you can use the files just like local ones.
- The data is saved to backup tapes periodically.
- The volume used can be adapted according to your requirements.

GWDG ownCloud



YOUR REQUIREMENT

You would like to keep your data in sync on every device and also be able to work offline with it. Additionally, you may want to give other persons (inside and outside of the University of Göttingen) access to selected files. You would also like to access and edit them while you are on the road. Your data should be stored in Germany and at a trustworthy partner.

OUR OFFER

With the service “GWDG ownCloud” we offer sync and share functionalities with the software “ownCloud Enterprise”. The web-office suite “ONLYOFFICE” can open and edit the usual office types. The service is operated on mass storage in our own data centres.

PRECONDITIONS FOR USE

The service is available to all members of the University of Göttingen who can logon at GWDG’s customer portal or by using Shibboleth via the DFN-AAI.

>> www.gwdg.de/owncloud-en

Your Advantages

- Trusted cloud storage for sync and share
- Open service for sharing also with external users
- 50 GByte default storage space per user; flexible increase possible upon request
- Clients available for all common desktop and mobile devices
- Web interface for flexible platform-independent access
- Integration of external storage (for example Dropbox, Google Drive, SharePoint, WebDAV or FTP)
- Synchronization of appointments and contacts with CalDAV and CardDAV

E-Mail Service (MS Exchange 2016)



YOUR REQUIREMENT

You expect a trouble-free and uninterrupted e-mail server operation which reliably delivers your designated e-mails to your inbox. Spam and e-mails with viruses will be filtered out and do not clutter your inbox. You need sophisticated groupware and calendar functionalities.

OUR OFFER

Use our messaging and groupware system based on the renowned Microsoft Exchange 2016. We provide messaging, calendar and addressbook functionalities across multiple platforms. E-mails are automatically filtered as spam or viruses. Access to the inboxes is possible with all the common e-mail programs as with a browser via the WWW. Your data is stored on premise in our data centres. We will also assist you with the migration of your current mail system to our Exchange platform.

PRECONDITIONS FOR USE

The service is available to all institutes of the University of Göttingen. Setting up the service can take place any time after consultation with the responsible IT person in your institute. A mixed operation with local mail servers in the institute and central server at GWDG for some of your users can also be implemented.

>> www.gwdg.de/exchange2016-en

Your Advantages

- You get a reliable and high availability e-mail and groupware service.
- Supports groupware features like organisation of appointments, tasks and address lists not only for individual users but also for groups, syncing contacts and calendars between devices.
- Numerous e-mail clients are supported: amongst others Outlook, Apple Mail and common smartphones.
- Your user account has 15 GByte default capacity, which can be increased if requested.
- Spam and virus-infected e-mails are filtered.
- You can access your e-mails conveniently and easily from anywhere on the Internet.
- Your incoming e-mails and their attachments are easy to find.
- You do not require your own e-mail server system saving costs and human resources.

Spam and Virus Filtering



YOUR REQUIREMENT

You would like to maintain your own mail server but keep your incoming e-mails free of viruses. You do not want to invest resources to sort out unwanted e-mails in your inbox.

OUR OFFER

We support e-mail filtering using DFN services. Incoming e-mails will automatically be checked for spam and viruses. Most spam will be rejected before being forwarded to you, unclear but suspicious e-mails are marked so you can decide what should happen to the e-mail in question.

PRECONDITIONS FOR USE

The use of this service is possible at short notice.

>> www.gwdg.de/spam-en

Your Advantages

- You receive less spam so that you have to filter little manually.
- Your e-mail program can automatically process marked e-mails suspected of being spam.
- When rejecting a virus-infected e-mail, the original recipient may be informed by a separate e-mail if requested.
- You do not require your own filtering system which has to be constantly updated and maintained.
- This way you save costs and personal resources.

Mailing Lists



YOUR REQUIREMENT

You would like to communicate via e-mail with a group of selected recipients, possibly also outside your institute. You want to independently manage a mailing list, e.g. add or remove recipients, or open the list, so that list members can independently enter or unsubscribe. Or you want to write to a group of recipients via newsletter, and only communicate one-sidedly.

OUR OFFER

We offer you a list server which reliably ensures that your e-mails are sent to all members entered in the mailing list. The e-mails can also be archived if required. The archive can be searched for keywords by all members of the list. The number of your mailing lists is unlimited.

PRECONDITIONS FOR USE

All you need is a valid e-mail address, which is entered as an administrator in the mailing list. The administrative tasks are easy to learn.

>> www.gwdg.de/maillinglists

Your Advantages

- Powerful, fail-safe system for distributing e-mails even to large number of recipients
- You simply send your e-mail to a mailing list address; the distribution to the members of the mailing list is handled by the list server.
- List members can reply to this e-mail address. Moderation functionality is available which allows you to approve or reject the distribution of an e-mail.
- Full administrative access to the settings of the mailing list and list members
- Obsolete e-mail addresses are recognized by the system and automatically removed.
- If your e-mail domain is hosted at the GWDG, you can also set up the address of the mailing list through this domain.

MS SharePoint



YOUR REQUIREMENT

You work as a team. To support your project work you want to set up a web-based platform for your content which is accessible from anywhere. Together you want to plan and manage documents, tasks and processes.

OUR OFFER

We offer you a highly available collaboration and publishing platform based on Microsoft SharePoint incl. Nintex Enterprise Workflow & Forms. SharePoint can be individually adapted to your requirements. You can set up a personal site for your documents or create extensive platforms for your project teams. We offer consulting and support for planning and implementation.

PRECONDITIONS FOR USE

For the use the one-time registration at <https://www.gwdg.de/registration> or the use of a valid GWDG account is necessary.

>> www.gwdg.de/sharepoint-en

Your Advantages

- All data is stored on local servers of the GWDG.
- Highly available system
- Central monitoring through the GWDG.
- We offer consulting and support as well as a wide range of training courses.
- You do not need to manage your own SharePoint server environment. This saves costs and human resources.

Managed Services



YOUR REQUIREMENT

You want a reliable service without the burden of management. You do not want to worry about hardware, the basic installation, or basic updates.

OUR OFFER

We offer a growing range of managed services like for example web servers, wikis, Git, or databases. We monitor the services and we take care of maintenance tasks like installing updates or security patches for the respective services.

PRECONDITIONS FOR USE

The list of available managed services can be obtained from the GWDG web site. Most of the services are directly available to members of the University of Göttingen. The GWDG can also manage individual services according to your requirements. In this case, please contact us for further information.

>> www.gwdg.de/managed-services-en

Your Advantages

- The services are immediately available.
- You can use the services corresponding to your usage profile.
- No further software installation is necessary on your part. You only need a web browser.
- GWDG will carry out the maintenance of the managed services.
- You can individually configure and change your user-specific preferences.

Project Management Service



YOUR REQUIREMENT

You want to work in teams on one or several projects and require a range of project supporting tools. You already have experience in project management using online tools or need advice. You expect a reliable service that is available everywhere and can be embedded into your infrastructure.

OUR OFFER

We provide a selection of online management tools for your projects. You can customize your project tools to your requirements as a self-service and embed them into your environment. You can focus on managing your project and we monitor and maintain this service and take care of backing up your data.

PRECONDITIONS FOR USE

The service is available to all members of the University of Göttingen. Every user can create, manage, or participate in projects. Users outside of the University of Göttingen can be invited to existing projects.

>> www.gwdg.de/project-management-service

Your Advantages

- Web-based project management with a wide range of functionality and plugins to support the project lifecycle
- Integrated Git and SVN repository
- API for integration into your own environment
- Project areas where you autonomously create and manage projects
- Advice and support in setting up your projects
- Connection to the central GWDG user management
- Central monitoring, reliability and backup through the GWDG

GWDG Pad



YOUR REQUIREMENT

You would like to work on text documents or presentations on your own or with your team in a simple way, relying on a number of useful features. Your changes should be visible in real time for both you and your colleagues. You would like to be able to restrict read or write access to your documents to protect them from undesired access. Additionally, you would like to be flexible on how to view and edit your documents – both mobile as well as desktop access should be supported.

OUR OFFER

Based on the free software “CodiMD” we offer you a service that allows you to create, share and collaboratively edit documents in a simple and intuitive way.

PRECONDITIONS FOR USE

In order to use GWDG Pad at <https://pad.gwdg.de> you only need a web browser and no other software installed. If you want to create your own documents, you need a valid GWDG account. Users without a GWDG account can register for one at <https://www.gwdg.de/registration>.

>> www.gwdg.de/gwdgpad-en

Your Advantages

- Collaborative realtime editor
- Overview of all your documents after login
- Support of UML diagrams, mathematical formulas, syntax highlighting, music notes and many more
- Modes for creating and presenting slide shows
- Embedding external resources like videos, PDF files or SlideShare
- Auto-completion for Markdown expressions
- Access permissions can be modified individually for each document
- Publishing of documents possible
- Only web browser needed for usage, no further software to be installed.

ShareLaTeX



YOUR REQUIREMENT

You use LaTeX to create complex documents and look for a simple platform to do so, without having to install and maintain LaTeX locally on your laptop or desktop PC. You want to work simultaneously with other people on your documents, independently of different TeX installations and operating systems.

OUR OFFER

With ShareLaTeX we offer a LaTeX installation on our servers usable through your web browser. Documents can be edited simultaneously in real time with other users during communication through a build-in chat next to the document.

PRECONDITIONS FOR USE

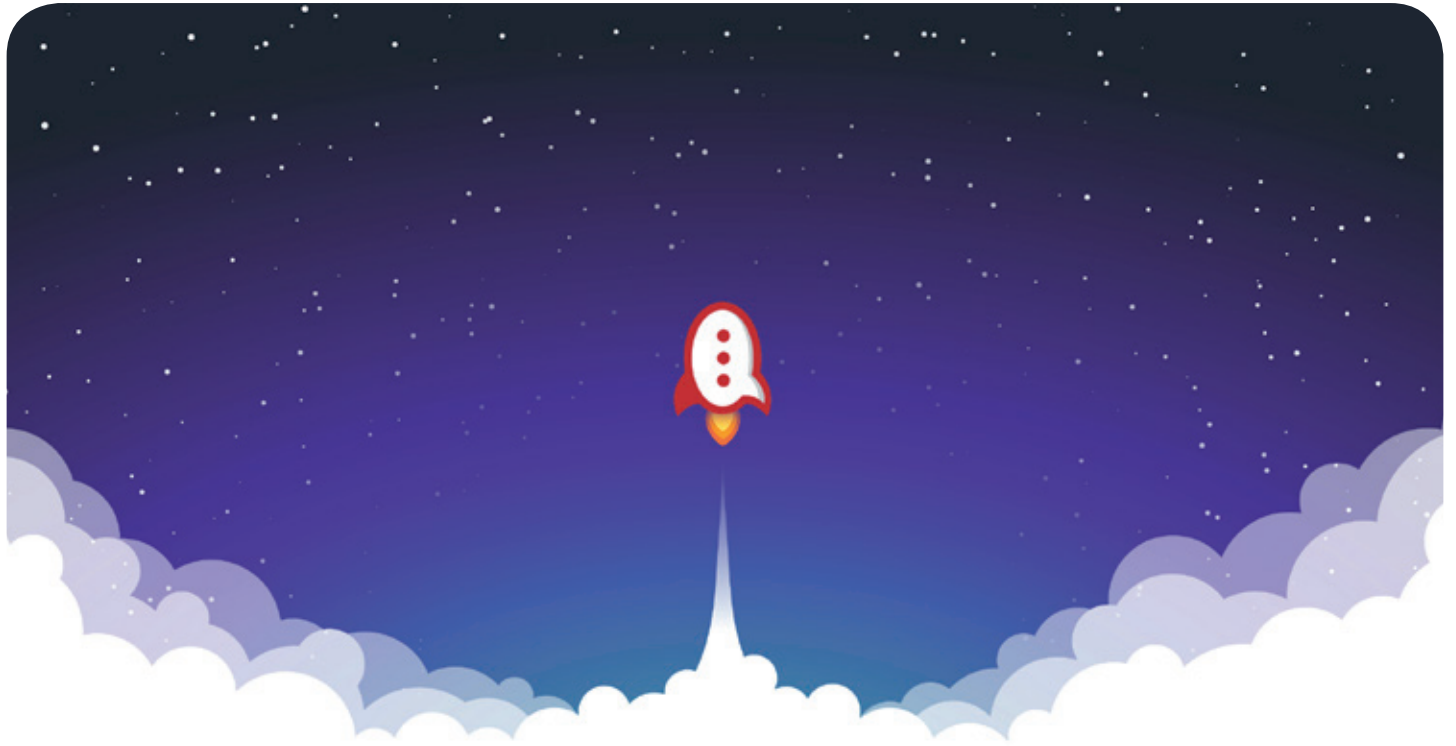
A valid GWDG account, a current web browser and basic LaTeX knowledge are required to use the ShareLaTeX service. Users without a valid GWDG account can register one at <https://www.gwdg.de/registration> and send a request to support@gwdg.de to have their account approved for the service.

>> www.gwdg.de/sharelatex-en

Your Advantages

- Easy to use standard ShareLaTeX platform with your web browser, based on TeX Live
- No operating costs or setup time required
- The service produces output as PDF which can be downloaded through the web browser
- Collaborative editing of a LaTeX document and easy communication via chat

Rocket.Chat



YOUR REQUIREMENT

You need a professional chat service to enable easy communication with colleagues – either alone or in a group chat with a searchable history. You want to exchange images and files with colleagues.

OUR OFFER

We operate Rocket.Chat as a messaging service with focus on communication in teams and groups. In addition, the service supports emojis, transferring files, images and videos as well as notifications from additional services like GitLab. With several clients for desktop and mobile devices and an easy to use web interface, we offer access from your workplace or on the road.

PRECONDITIONS FOR USE

A valid GWDG account and a current web browser are required to use the Rocket.Chat service. Just visit <https://chat.gwdg.de> to get started. Users without a valid GWDG account can register one at <https://www.gwdg.de/registration>.

>> www.gwdg.de/rocket.chat-en

Your Advantages

- Easy communication in a team
- Persistent, searchable chat history
- Sharing files and images
- Chat with any user with a valid GWDG account
- Integrated bots and APIs for integration of GitLab or RSS-feeds

GWDG Web Office



YOUR REQUIREMENT

You would like to work on texts, spreadsheets or presentations fast and collaboratively with other participants without installing additional software on your device. You want to see changes in real time, optionally you want to track your co-workers and accept or reject their edits.

OUR OFFER

We offer the service "ONLYOFFICE" which allows for uncomplicated editing of text, spreadsheets and presentations, it supports the usual Microsoft Office file formats.

PRECONDITIONS FOR USE

The service is integrated in GWDG ownCloud and available to all members of the University of Göttingen who can login at GWDG's customer portal or by using Shibboleth via the DFN-AAI. External users can get access via GWDG ownCloud.

>> www.gwdg.de/web-office-en

Your Advantages

- Web interface for flexible, device-independend access
- Design inspired by well-known Office products
- Extensive functions
- Real time collaboration, can be limited optionally
- Optionally track and accept or reject edits

GitLab



YOUR REQUIREMENT

You want to manage documents collaboratively with the Git version control software, track the progress and issues of your projects or document your projects in a wiki. You expect a reliable service which is available everywhere and can be embedded into your infrastructure.

OUR OFFER

With GitLab we offer a platform which allows you to manage your source code in a convenient way. You can model your development process easily and flexibly into GitLab with the tools provided by the service. You can focus on managing your project and we monitor and maintain this service and take care of backing up your data.

PRECONDITIONS FOR USE

The service is available to all members of the University of Göttingen. Every user can create, manage projects or groups. Users outside of the University of Göttingen can be invited to existing projects.

>> www.gwdg.de/gitlab-en

Your Advantages

- Web-based source code management with a wide range of functionality and plugins to support the development lifecycle
- Configuration of Continuous Integration
- Supports the “Merge Request Workflow”
- Advice and support in setting up your projects
- Connection to the central GWDG user management
- Central monitoring, reliability and backup through the GWDG

Virtual Server



YOUR REQUIREMENT

For the provision of a service you require an application server or a data base server. You lack physical data centre space, hardware, infrastructure or manpower. Your server should feature high availability and maintain high performance.

OUR OFFER

We offer the hosting of virtual servers for your applications on the basis of VMware ESX. You can manage your own virtual machines. They are hosted in our reliable virtualisation infrastructure which supports different redundancy levels and adheres to best-practice VMware ESX guidelines. You remain administrator of your own virtual servers without dealing with the physical execution environment.

PRECONDITIONS FOR USE

Every user with a valid GWDG account can use our VMware Cluster.

>> www.gwdg.de/virtual-server

Your Advantages

- High-performance VMware Cluster with associated mass storage
- GWDG central monitoring
- High flexibility due to virtualisation technologies like templates (technically possible on request), cloning, and snapshots
- Possibility of automated backup
- Full administrative access to your server with 24/7 self-service
- Availability of all common operating systems for basic installation
- High reliability and availability through redundant locations, network connections, and USV backing
- Protection from virus attacks from the internet by high performance firewall systems

Housing of Servers



YOUR REQUIREMENT

You would like to run your own dedicated physical server or storage system without the maintenance overhead and the necessity to operate the respective data centre infrastructure.

OUR OFFER

We operate several data centres in Göttingen with the necessary infrastructure for safe and reliable housing of your systems. We take care of the system management and we support you in procurement and installation of dedicated servers.

PRECONDITIONS FOR USE

The service is available to all institutes of the University of Göttingen. It is necessary to discuss the exact technical details (including size, electrical power consumption and connection types) of the housing systems.

>> www.gwdg.de/server-housing-en

Your Advantages

- Safe and reliable infrastructure
- Fast connection to the internet
- Data security and backup as well as monitoring based on your requirements
- USV power supply
- Air- or water cooling
- Access control
- Individually adaptable configuration

Web Hosting



YOUR REQUIREMENT

You want to host your own web site for a project or institute, but you lack the necessary technical prerequisites at your institute.

OUR OFFER

We offer you virtual web servers at GWDG. Using a LAMP environment you can create your own web site. Making use of the concept of name-based virtual web servers from Apache the URLs of the server can use names from your institute's domain name space although in reality they are running at a server operated by us.

PRECONDITIONS FOR USE

To operate a virtual web server at the GWDG it is only required to have a valid GWDG account.

>> www.gwdg.de/web-hosting-en

Your Advantages

- Backup of all data on regular basis by our backup systems with TSM
- Provision, operation and maintenance of the hardware and network infrastructure
- Simple SFTP access to data
- System administration and maintenance (operating systems and central software components) through the GWDG
- Central monitoring through the GWDG
- Own domain possible
- Opportunity of encryption of the virtual web server with SSL on the basis of the GWDG-CA issued certificate
- For the use of wikis a maintained solution is available.

GWDG Cloud Server



YOUR REQUIREMENT

You need dynamic, scalable and flexible computing resources which you can manage as a self-service. You do not want to worry about the operational details and management of the IT infrastructure and focus on your operation system and application. You expect a modern infrastructure and secure data management without the usual maintenance.

OUR OFFER

The GWDG provides you a dynamic, secure and scalable private cloud. You have full access to your computing resources as a self-service. Both simple virtual machine management and advanced management requirements (network, storage, and APIs) are supported. The API gives you access to all the features of the service "GWDG Cloud Server".

PRECONDITIONS FOR USE

Required is a one-off registration or the use of a valid GWDG account. An activation for the self-service can be requested via support@gwdg.de.

>> www.gwdg.de/cloud-server-en

Your Advantages

- Provide powerful and dynamic computing resources which fit your needs
- Quick and individual access to computing resources for research and teaching
- Secure data storage through integration into the storage infrastructure of the GWDG
- Complete self-service for the management of virtual machines, network and storage via the Web GUI and API
- Guaranteed quality of service according to your wishes
- Controlled pricing depending on your usage profile
- Individual advice based on your requirements

FTP Server



YOUR REQUIREMENT

You want fast access to a vast selection of Open Source software, centralized in one place. You need handbooks, software manuals, or listings from computer journals. You want to keep your Linux or FreeBSD installation up-to-date with reliable access to updates.

OUR OFFER

Since 1992 the GWDG provides one of the most prominent FTP Servers worldwide with powerful resources and fast network connectivity. It is the main mirror for many Open Source projects.

PRECONDITIONS FOR USE

The FTP Server can be used by any user. Users within the GÖNET reach the service locally and therefore get the best possible performance.

>> www.gwdg.de/ftp-server-en

Your Advantages

- Vast selection (65 TByte) of Open Source software, available worldwide
- Especially fast within the GÖNET
- Most recent software, including current updates for the most common Linux distributions
- Efficiently searchable through locatedb
- All common protocols (http, ftp, rsync, and nfs) can be used for access.

Use of an IP Address Management System



YOUR REQUIREMENT

You want a central and professional administration of IP address assignments, DNS and DHCP services (IPv4 and IPv6). You want to delegate maintenance of parts of the IP, DNS and DHCP data to your subordinate administrators. You want high available DNS and DHCP services provided by appliance technology.

OUR OFFER

We offer you to use our IP address management (IPAM) system, which provides multi-tenancy support. The address space and DNS name space can be maintained by one or several local administrators. The data synchronization to the responsible DNS and DHCP services takes place periodically or instantaneously on demand. DNS and DHCP can be delivered locally via centrally administered appliances.

PRECONDITIONS FOR USE

Your institute must name one or more administrators. For local DNS services the integration of an existing DNS server or a local appliance is required. DHCP services always require a local appliance. Locally installed appliances must be purchased by your institute (depending on the institute's requirements).

>> www.gwdg.de/ipam-en

Your Advantages

- The IPv4 and IPv6 address lists are administered in a professional way.
- The consistency of the data in the address and name space is guaranteed.
- The maintenance via the web interface does not need much training and requires less technical expertise on DNS and DHCP services and operating systems from your own staff.
- The administration of parts of the address and name space to various subordinate administrators can be delegated.
- Local DNS and DHCP appliances can provide high available services on site (optional).
- Use of the GWDG DNS server for public DNS databases (without the necessity to operate a server yourself; optional)

System Monitoring



YOUR REQUIREMENT

You want to monitor your servers, network components, or other network-connected systems.

OUR OFFER

System monitoring is done at GWDG by a centralized multi-tenant system. You will have your dedicated workspace within the system to add the hosts and systems you want to monitor. Thus, you will have your own special view of the monitoring system in your web browser. Additionally, if wanted, our staff can be notified about problems concerning your hosts or services to execute further steps.

PRECONDITIONS FOR USE

The service is available to all institutes; however, monitoring over WAN connections requires individual agreements and tests.

>> www.gwdg.de/system-monitoring

Your Advantages

- Access to a completely state-of-the-art monitoring system
- Possibility of additional monitoring by GWDG staff
- You save time and have full support by GWDG.
- No maintenance efforts and costs for yourself

Integration into Active Directory



YOUR REQUIREMENT

You want simple and centralized management of your Windows computers to increase IT security while significantly reducing administrative overhead. You want to provide central services and resources for your employees. You need access to GWDG resources such as SharePoint, file service or printers. You want to make your working environment more user-friendly.

OUR OFFER

We will be happy to advise you on connecting your institute to the GWDG Active Directory, create concepts for the central supply of your systems, e.g. with operating system updates or Sophos anti-virus software, and work with you to create individual group policies for your work area. We will show you how to make your environments user-friendly with server-stored profiles and login scripts. We use Active Directory to set up central services within your network or provide you with central GWDG services.

PRECONDITIONS FOR USE

Computer with a current Windows operating system and a valid GWDG account.

>> www.gwdg.de/active-directory-en

Your Advantages

- Many years of practical experience in designing and building an Active Directory
- Training your IT staff by actively participating in the development of a concept and the setting up of an Active Directory in your institute
- Connection to central services such as the Windows printing service or the Sophos Enterprise Console
- More satisfied employees by maintaining the desktop even when changing computers and automated connection to network drives and printers, which at the same time enables a fast change of hardware at the workplace.
- Authentication and authorization for the use of central GWDG services such as SharePoint and Exchange
- As central user administration also suitable for Mac and UNIX derivatives.

User Management with OpenLDAP



YOUR REQUIREMENT

You want to provide a protected website and you want university employees or students to be able to log in. Or you want to take a benefit from the GWDG user database for your own UNIX/Linux servers or computers.

OUR OFFER

We run a redundant OpenLDAP-based reliable directory service on multiple independent servers at different locations that provide user account data of all students and university staff (in the latter case a GWDG user account must exist). Subject to prior agreement with the central university administration, you may get read access to the service which can be used for your purposes.

PRECONDITIONS FOR USE

You need administrative access for computers and systems which shall be connected to the directory service.

>> www.gwdg.de/openldap-en

Your Advantages

- You do not need to manage user accounts by yourself.
- Up-to-date user account databases maintained by the GWDG are available for you at any time.
- Use a redundant LDAP infrastructure

Client Management for Windows



YOUR REQUIREMENT

You want to make sure that your IT environment is up-to-date and secure. Your colleagues do not want to spend lots of time for installation and configuration tasks on their computers. Using IT infrastructure should be convenient and easy, and personal data should be backed up daily. Furthermore, you need a detailed overview and some central manageability of your workstations.

OUR OFFER

Implementation of centrally managed security guidelines based on group policies. Automated software distribution by group policies or, alternatively, the baramundi management suite. Policy-based distribution of MS Windows operating system updates and MS Office. Centralized installation, configuration, and monitoring of Sophos Anti-Virus software. Automatic connections to printers with installation of printer drivers. Generating statistics of print jobs when needed. Daily backups of user files and individual computer settings. Easy transition to new hardware with roaming profiles.

PRECONDITIONS FOR USE

Connection to the Active Directory

>> www.gwdg.de/client-management-en

Your Advantages

- By participating in the GWDG Active Directory, central administration of IT systems is possible. This helps you to get information about all your systems at a single place.
- Security-related computer configuration can be enforced centrally by group policies.
- Automatic group policy-controlled connection of printers and drives as well as automatic installation of printer drivers avoid time-consuming manual activities and simplifies handling for everyone.
- Central backups help to prevent loss of important scientific and personal data.
- IT workplace environments transparently move with your employees from Active Directory workstation to Active Directory workstation by so-called roaming profiles. This makes life significantly easier.

Client Management for macOS and iOS



YOUR REQUIREMENT

You want to keep the macOS devices of your employees up-to-date and secure, without having to take care of the system maintenance, provide certain software packages and/or preconfigure system settings on the macOS devices for your institute. You want a central software distribution of apps to the macOS and iOS devices of your institute. Your iOS devices should be configured and installed with Zero Touch when switched on.

OUR OFFER

We offer you a central management of your macOS and iOS devices including extensive and group-based expandable self-service, device-based software distribution, where your institute is the owner of the apps and Zero Touch Deployment through the use of the Device Enrollment Program. In addition we offer the provision and installation of configuration profiles, a central overview of the devices in your institutes incl. system overview and the possibility of purchasing apps through Apple's Volume Purchase Program with high educational discounts.

PRECONDITIONS FOR USE

Connection to the Identity Management of the GWDG

Your Advantages

- Automatic and prompt updates of the software
- Remote support possible (only with explicit consent)
- Monitoring of hardware functionality (e.g. hard drives, memory, etc.)
- Addition and/or deactivation of specific services and functions based on your needs
- Increase security through policy-based prevention of non-authorized and potential malware
- Deployment of ready-to-use software packages through our self-service app. No administrative privileges are required hereby for the user.
- Self-service packages can be customized to fit the needs of individual groups within an institute.
- Local administrators can manage their institute's devices.

>> www.gwdg.de/client-management-mac-en

Persistent Identifier (PID)



YOUR REQUIREMENT

You want to get permanent references to your research data by Persistent Identifier (PIDs) to enable the refindability and long term accessibility of the data in the case of sharing data with other researchers or citing data resources as basis of a publication.

OUR OFFER

We provide a PID service including prefixes for you, where you can mint and maintain your PID via GUI or REST interface. We run the local resolver and provide as partner in the ePIC consortium access to at least two additional mirror servers, located somewhere else in Europe, to ensure the resolvability of the PIDs with high availability. If your PID contains all required metadata required by DataCite, also a DOI can be derived from it.

PRECONDITIONS FOR USE

All institutes and customers can use this service. All data resources that shall get a PID need to have a valid URL, such that a resolution is possible. For institutes it is advisable to consult with GWDG to require a dedicated prefix in order to align requirements and service configuration.

>> www.gwdg.de/pid-en

Your Advantages

- Your data becomes referable inside research groups and scientific communities and citable in scientific publications.
- You are able to adjust yourself the URL of the data resource in case there are changes in the data location.
- Institutes can use a dedicated prefix for the PID.
- As data manager you can enforce policies for the PID management inside of your institution.
- With the PID provided it is possible to assign a link to the metadata of the data resource as a parameter of the PID, and this way to enforce a strong coupling between data and metadata.

High Performance Computing



YOUR REQUIREMENT

You need complex model computations or extensive data analysis for your research. The software you use for this purpose has special requirements, and is therefore not suited for standard servers.

OUR OFFER

We offer you a comprehensive range of high performance computing (HPC) resources, i.e., servers with high processing power, large memory or disk space, or a powerful high speed interconnect for parallel applications, along with the corresponding consulting services.

PRECONDITIONS FOR USE

Access to the HPC resources must be activated for your userid.

>> www.gwdg.de/hpc-en

Your Advantages

- Access to regularly updated state of the art HPC systems
- Suitable resources for a broad spectrum of different application profiles: memory intensive data analysis, multithreading, or massively parallel MPI applications
- Integration with the central storage systems of the GWDG: Your results are available anywhere and are backed up regularly.
- The Slurm resource management system enables you to efficiently control your compute tasks.
- Training courses, for example on application parallelization
- Expert advice on all your HPC questions
- Ready to use preinstalled HPC libraries and applications, for example Gaussian, Turbomole and a wide range of bioinformatics applications. We will be pleased to advise you.
- You can run your own application containers with Singularity.
- The HPC system can be used as a backend for Jupyter notebooks with Jupyter-Hub.
- Apache Spark clusters can be configured as batch jobs

Library Service Koha



YOUR REQUIREMENT

As head of a scientific library you are looking for a high performance integrated library system (ILS) and an online catalogue (OPAC).

OUR OFFER

We offer the usage of the Koha Library Service of the GWDG to handle all or parts of your business. With the Koha Web OPAC you provide an efficient search tool for your users. We support you during the whole process of creating and managing your setup or we take on this task with the help of a ready-made setup. Every library gets its own Koha instance in which you can configure all available settings for your library according to your needs.

PRECONDITIONS FOR USE

A valid GWDG account is required to obtain a Koha instance. To use the service interface, you need a current web browser; there is no need to install special client software on library PCs.

>> www.gwdg.de/koha-en

Your Advantages

- Open source product, i.e. no license fees are charged
- Hosting, infrastructure, maintenance and updates of hard- and software are provided by the GWDG.
- Free decision on usage of Koha for full or only parts of business per instance
- Choice between building up your own system library competence in the library with maximum parametrization options or using a setup maintained by the GWDG
- Regular backups of the Koha servers with TSM to GWDG internal servers
- Maximum control over your data, which is only stored on servers in the data centres of the GWDG.
- GDPR compliant administration, anonymization and deletion of personal data
- Central monitoring by the GWDG

Databases



YOUR REQUIREMENT

You want a database but do not have the necessary technical prerequisites in your institute. You lack either the hardware or the appropriate resources for the operation.

OUR OFFER

We offer you the opportunity of the hosting of MySQL and PostgreSQL databases at the GWDG. By request, we also host Oracle databases for you. For the operation of the databases you can use our database service. Your MySQL databases will be kept redundantly on different servers. Your PostgreSQL databases runs on a Server in the VMware Cluster.

PRECONDITIONS FOR USE

The network to which access can be made must be specified and activated. On the user side a MySQL or PostgreSQL client or application software with integrated database driver must be available. Alternatively you can choose a web-based access via phpMyAdmin or respectively phpPgAdmin.

>> www.gwdg.de/databases

Your Advantages

- Quick access to all databases.
- High reliability and availability
- Access to the databases possible via web interface
- Automatic generation of backups of all databases
- Server backup on a regular basis by our backup system using TSM
- Access security via IP limitation
- Central monitoring by the GWDG

Application and Registration Systems with integrated Workflow Support



YOUR REQUIREMENT

You would like to implement an application or general registration procedure, e.g. for open positions or meeting management. Applicants should apply online and be able to be automatically notified per e-mail. Evaluators should have access to the applications or registrations via the WWW and be able to render evaluations online.

OUR OFFER

On request we create individual Lotus Notes databases which are open to all candidates or registrants via a web browser. The created documents can only be viewed, processed and evaluated by selected evaluators via the WWW and from specific staff members of your institute. The applications received will be sorted and displayed according to your criteria. Further workflows can be designed individually.

PRECONDITIONS FOR USE

For their applications applicants require merely the internet access and a web browser. Those processing the data sets can use either Lotus Client made available by GWDG free of charge or a web browser. Evaluators can enter their assessments in a web browser. The service, customization support as well as mandatory consulting can be requested via support@gwdg.de.

>> www.gwdg.de/lotus-en

Your Advantages

- High performance, reliable system to receive applications or registrations via the WWW
- Appropriate data protection storage and processing of data
- Distribution of documents on paper is superfluous as access by evaluators or others responsible takes place via the WWW.
- Every workflow is adjustable to your situation
- Candidates can be notified automatically per e-mail (e.g. a rejection)

Plagiarism Prevention



YOUR REQUIREMENT

You want to check student papers, bachelor, master or PhD theses or other papers for authenticity. You want to avoid plagiarism or you want to check the references.

OUR OFFER

We offer free access to our plagiarism prevention services. Our partner iParadigms, LLC has a wide data pool consisting of more than 70 billion websites, more than 1 billion student papers and over 165 million scientific publishers publications. You can choose between Turnitin and iThenticate, two leading products in the field of plagiarism prevention. Turnitin's main purpose is for student papers, iThenticate's common use is for PhD theses and for the use in scientific publishing houses. But both products can be used in the whole area of plagiarism prevention.

PRECONDITIONS FOR USE

Every employee of the University of Göttingen can obtain access to the plagiarism prevention services.

>> www.gwdg.de/plagiarism-prevention

Your Advantages

- You can save time by skipping tedious manual searches for reference sources in the internet.
- You can gain a fast overview of the references used and check them for correct citation.
- Figure out the percentage of similar passages to other references.
- Fast navigation to similarity hits in the document
- Easily compare the similarity hit with the original source

Online Surveys



YOUR REQUIREMENT

You would like to conduct online surveys and store the gathered data at a trustworthy site in Germany. The creation of the surveys should be easy and offer many design options.

OUR OFFER

We operate a server hosting the reliable and popular open-source software "LimeSurvey". With LimeSurvey, it is possible to create, conduct and analyze online surveys. The data collected will be stored in the MySQL Cluster of the GWDG.

PRECONDITIONS FOR USE

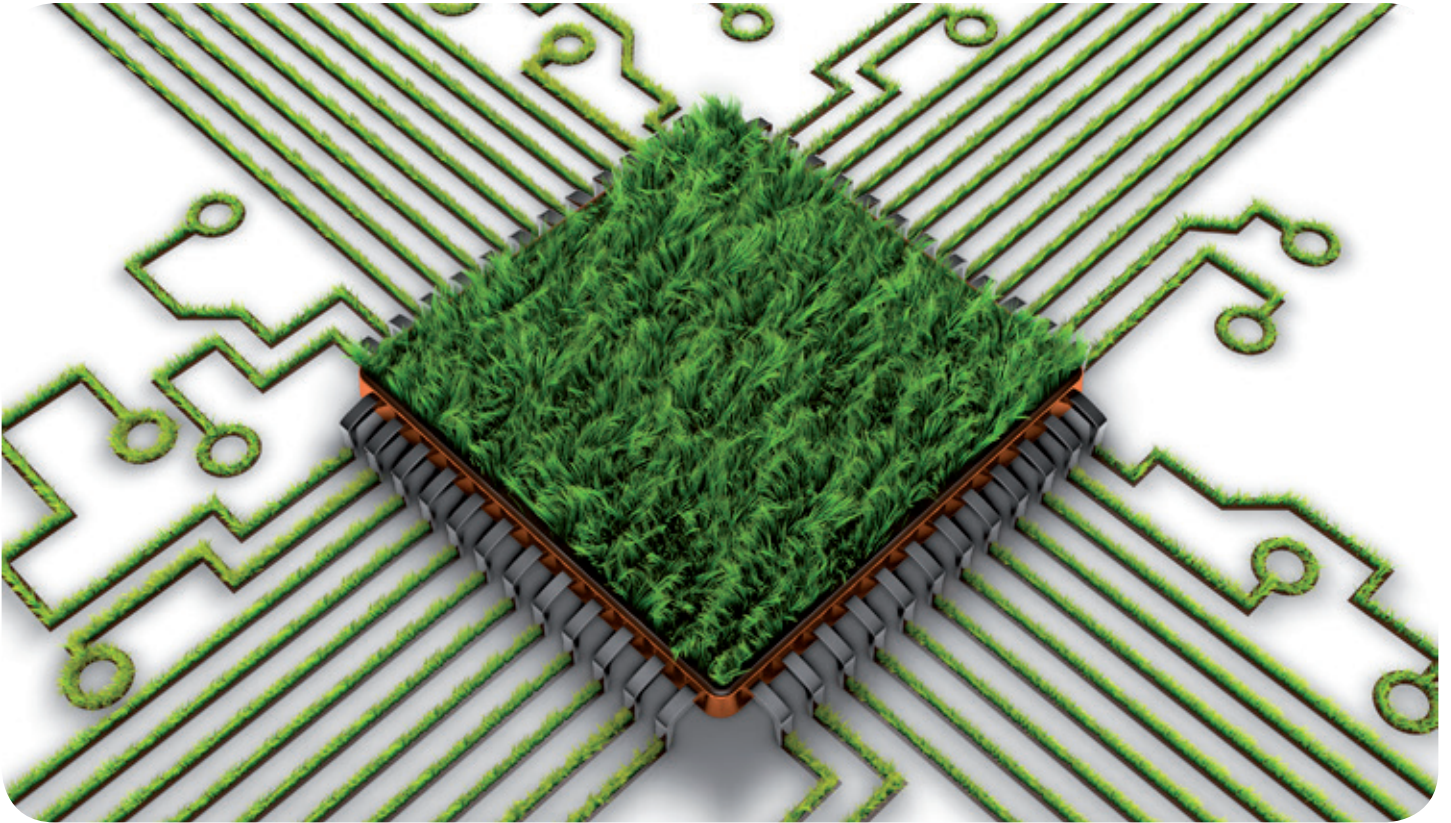
The service is available to all members of the University of Göttingen. Setting up an account for LimeSurvey is carried out at request. Creation and administration of the surveys are carried out in a web browser.

>> www.gwdg.de/online-surveys

Your Advantages

- Creation of online surveys with LimeSurvey with an easy to use web interface
- No special (programming) skills required (basic HTML and CSS skills are helpful, if you wish to edit the pre-designed survey templates)
- No additional installation of software necessary; a web browser is all you need.
- Execution and evaluation of surveys done with LimeSurvey
- Trustworthy data storage at the GWDG
- Created surveys can be tested in advance.
- Export of the structure of a survey and the data collected from LimeSurvey

Bioinformatics Programs



YOUR REQUIREMENT

You are seeking access to sequence analysing software like MASCOT (proteome research), Delta D2D (evaluation of 2D gel-electrophoresis), Geneious Prime (sequence analysis) or you use Next Generation Sequencing technology and do not have available the necessary computing power and storage options in your institute.

OUR OFFER

We offer access to the desired software on our high-powered hardware. For this purpose, far more than 100 bioinformatic programs are available at our bioinformatic compute server and our HPC cluster. For demands across institutions we also operate a license server (e.g. Geneious Prime) for you.

PRECONDITIONS FOR USE

A precondition for use is a valid GWDG account. For Linux based systems small basics in Linux are required.

>> www.gwdg.de/bioinformatics

Your Advantages

- High powered hardware with large main memory and harddisk space
- High reliability and availability through redundant systems and network connections
- We will help you to use your own programs at our computers (under Linux and Windows server).
- Simple and encrypted access to your processing and storage area
- Periodic backups (also of big data); long-term archiving

Statistics Programs



YOUR REQUIREMENT

For your ambitious statistical computations you need the necessary software and computing power.

OUR OFFER

We offer access to standard software (SAS, SPSS, Statistica, Stata, and R) at our high-powered compute server, our HPC cluster (SAS and R), or our R-Studio web server.

PRECONDITIONS FOR USE

Depending on used hardware a valid GWDG account is required, or just a student account is sufficient. For Linux-based systems small basics of Linux are necessary.

>> www.gwdg.de/statistics

Your Advantages

- Long-running computations at high powered hardware with large main memory
- High reliability and availability through redundant systems and network connections
- We will help you to use your own programs at our computers (under Linux and Windows Server).
- Simple and encrypted access to your processing and storage area
- Periodic backups (also of big data); long-term archiving

Jupyter



YOUR REQUIREMENT

You need an easy-to-use platform for data analysis in a web browser with the languages Python, Julia or R.

OUR OFFER

We operate the service “Jupyter” which allows for live editing and execution of text, graphs, equations and code in a web browser. Possible use cases are data cleaning and transformation, numeric simulations, statistic modelling, machine learning, and coding courses. Jupyter can also be operated on the Scientific Compute Cluster of the GWDG, if larger computing resources are needed.

PRECONDITIONS FOR USE

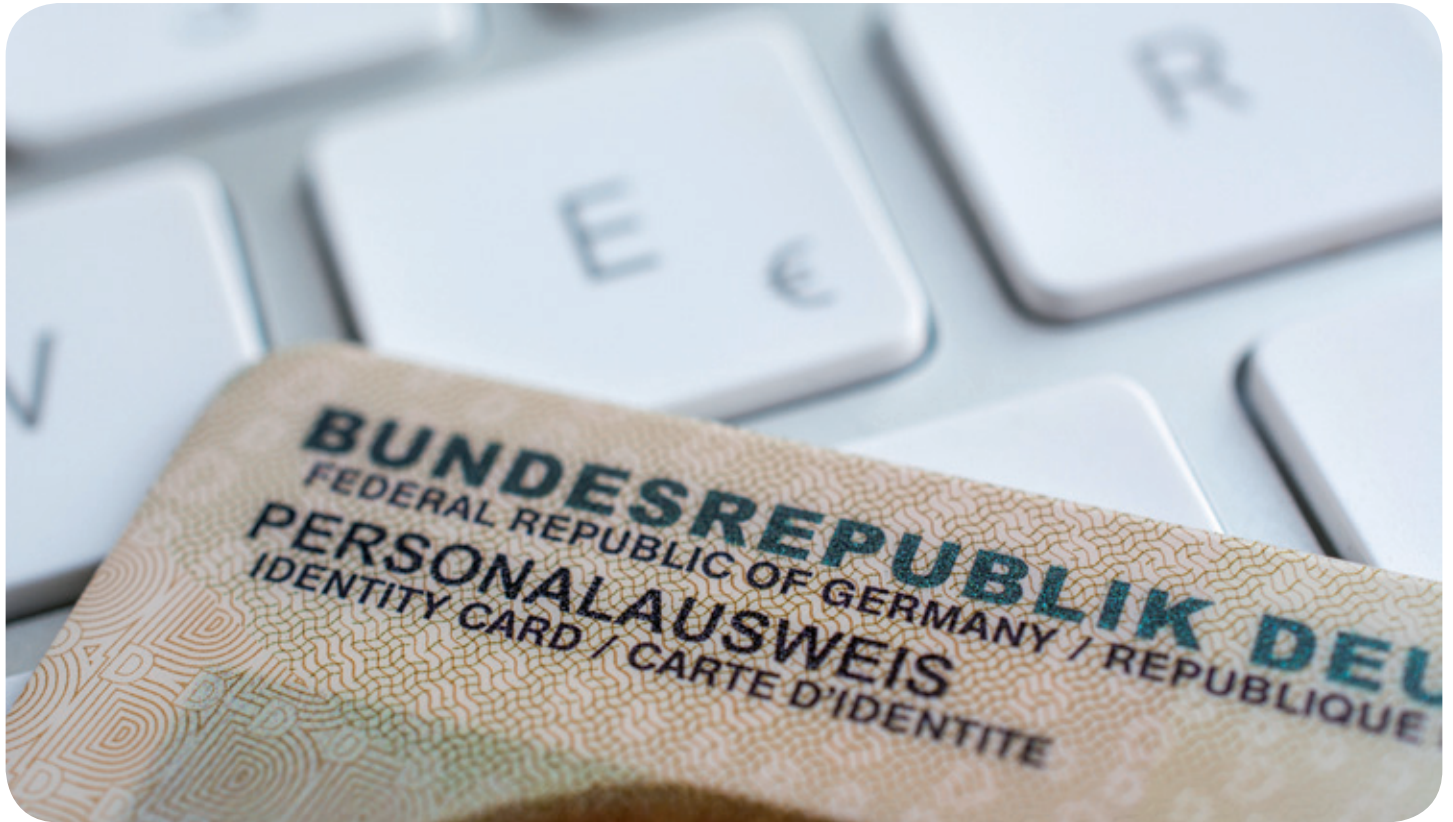
Every user with a valid GWDG account and a recent web browser can use the service. Access the service at <https://jupyter.gwdg.de>. User without a valid GWDG account can register for an account at <https://www.gwdg.de/registration>.

>> www.gwdg.de/jupyter-en

Your Advantages

- Easy web-based environment
- LaTeX and Markdown support
- Kernel available in Python, Julia, and R
- Export to PDF, HTML, and Markdown

Pseudonymisation and Data Trusteeship



YOUR REQUIREMENT

To carry out scientific studies on sensitive personal data (e.g. in the context of medical studies), you need a pseudonym generation service. In addition to the Personal Identifier (PID), you also want to generate Subject Identifier Codes (SICs) for different data sources in order to avoid unwanted merging of data records. Last but not least, for the separate storage of study data and the identifying personal data you need an independent data trustee outside of your instruction's authority.

OUR OFFER

We offer PID and SIC generation services and act as data trustee for the identifying personal data. The service is operated applying comprehensive technical and organizational measures that ensure data protection and security even in the context of sensitive studies.

PRECONDITIONS FOR USE

The server is set up in close cooperation with the respective study manager.

>> www.gwdg.de/pseudonymisation

Your Advantages

- GDPR-compliant pseudonymization service for scientific studies on sensitive personal data
- Generation of a Personal Identifier (PID) and any number of Subject Identifier Codes (SICs)
- We act as a data trustee, study data and personal data are technically and administratively separated in compliance with GDPR.
- Daily backup of personal data, PIDs and SICs
- Suitable for long-term studies (ten years or more)
- Assistance in the preparation of a contract for commissioned data processing

Public Key Infrastructure (PKI)



YOUR REQUIREMENT

You would like to secure your web server so that is suitable for confidential data. Your users would like to send signed e-mails or confidential information by means of encrypted e-mails. You would like to sign documents or program code.

OUR OFFER

In cooperation with the DFN, we offer a public key infrastructure (PKI) as the key component of a comprehensive security concept. With this PKI we offer you appropriate services for security issues in communication.

PRECONDITIONS FOR USE

For issuing certificates the applicant can appear personally at GWDG or a local registration authority (RA) is required. A RA can be initiated at the request of the institute directors. For the establishment of a RA an initial contact to GWDG is required.

>> www.gwdg.de/pki-en

Your Advantages

- Certificate according to X.509 standard with which
 - to sign/encrypt e-mails,
 - to sign documents and program code/Office macros and
 - to secure web, e-mail and other server systems per SSL/TLS
- Own RA for the institute in Uni-Goettingen-CA
- For the RA operation you only need
 - one or two people and
 - a Java based RA interface.
- With a RA for your institute if required you can issue certificates for your users and servers autonomously.

Virus Protection (Sophos Update Service)



YOUR REQUIREMENT

A powerful and up to date virus protection is additional required to periodical security updates for the operating system and the applications.

OUR OFFER

With Sophos Anti-Virus we provide an efficient and renowned virus protection solution for the platforms Windows, macOS and Linux. The software client can be installed and updated from our central Sophos Update Service.

PRECONDITIONS FOR USE

This product and service is free for the University of Göttingen.

>> www.gwdg.de/sophos-en

Your Advantages

- Comprehensive proven virus protection for your laptops, desktops and servers running on Windows, macOS, Linux or virtual platforms

Identity and Access Management (IAM)



YOUR REQUIREMENT

As a user you want to use central IT services of the University and the University Medical Center Göttingen (UMG), the Göttingen State and University Library (SUB) and of the GWDG with your known credentials. You want to connect your IT services to the IAM to allow staff and students to use them with their known uniform credentials.

OUR OFFER

We provide the central directory service "Metadir" for the University of Göttingen, which includes all staff and student accounts of the university. That is available to you for the authentication and authorization of your services. Additionally with "IdM as a service" we help you to implement all your local processes regarding user management according to your requirements and wishes.

PRECONDITIONS FOR USE

An existing local user management with a directory service or database or a service you want to provide for members of the university or other research facilities.

Your Advantages

- Implementation of the uniform staff and student account for the University of Göttingen
- Implementation of all the organizational and technical processes of the user management, roles and permissions
- Aggregation of existing identities and accounts
- Achievement of convergence in the areas of directory services and user accounts
- Building processes for creating and deprovisioning of user accounts
- Creating of roles in the target directories
- Profit from automatic processes regarding the "uniform staff account" like joining and leaving the university
- Easy provision of IT services/resources for members of the university or other research facilities
- Simple and flexible access to multiple web services in the DFN- and eduGAIN-AAI (see also the SSO/AAI service)

YOUR REQUIREMENT

You would like to access web services of the GWDG, the University of Göttingen, the DFN or the eduGAIN Federation via Single Sign-on. For this purpose, users should be able to use their familiar credentials of the University of Göttingen. You may also want to provide your institution's web services to certain groups of users (e.g. staff or guest scientists) without the need for additional user administration.

OUR OFFER

We provide access to desired services via an Identity Provider (IdP) based on our identity management system. We can support you in connecting your services to the AAI structures of both the GWDG and the University of Göttingen. As your contact partner for the DFN Federation, we will gladly assist you in integrating your own services into the AAI.

PRECONDITIONS FOR USE

Depending on your particular requirements, different options are available. Please let us advise you in a personal conversation.

>> www.gwdg.de/aai-en

Your Advantages

- Single Sign-on for online services with familiar credentials of the University of Göttingen
- Technical support for installation and configuration of AAI components (service providers)
- All AAI components are based on proven technologies (SAML, Shibboleth and OpenID Connect).
- Fast and easy access to shared resources of the University of Göttingen and services of the GWDG, e.g. ownCloud, GitLab or ShareLatex
- Easy delivery of IT services or resources to university members or other research facilities
- Easy and flexible access to the comprehensive web services in the DFN- and eduGAIN-AAI (see also the IAM service)

Courses



YOUR REQUIREMENT

You would like to have further training in particular IT areas for your day-to-day-work and thus like to take part in relevant courses in order to get the necessary qualification.

OUR OFFER

We offer a comprehensive range of courses for the efficient use of hardware, software and networks through which we support you during your daily use of IT in research, teaching and administration of your scientific institution.

PRECONDITIONS FOR USE

For some courses prior knowledge of the subject is required which is mentioned in the respective course advertisements.

Your Advantages

- Course covering many IT areas: UNIX/Linux, Windows, Active Directory, SharePoint, Outlook, Networks/Internet, Photoshop, InDesign and SPSS
- Short or introductory courses as well as advanced courses according to previous knowledge and target groups
- Highly qualified and field-tested trainers with many years of experience will provide first hand expert knowledge
- A balanced mix of theory and practice
- A training PC for every participant
- Certificate of participation (on request)
- Also in-house courses in your institute with suitable conditions possible (room and technology)

Software and License Management



YOUR REQUIREMENT

You need software for which there is no useful framework agreement. The number of licenses required is not well defined.

OUR OFFER

We maintain a number of framework and campus agreements with major software manufacturers and suppliers from which the software and licenses can be obtained also in smaller numbers. We handle for you the procurement of licenses required. We can engage in contract negotiations and demand analysis. Access licenses can also be managed by license servers.

PRECONDITIONS FOR USE

Information on existing license agreements can be found on the GWDG web site. If you look for specific software which is not yet mentioned on our web site, please approach us. We will investigate whether we can facilitate an agreement and pool the demand with other users.

>> www.gwdg.de/software-en

Your Advantages

- You can use the software in many cases immediately.
- You do not have to carry out tendering and procurement procedures.
- You save the time-consuming negotiations with software vendors and suppliers.
- The number of licenses required will be provided flexibly.
- We can pool the demand from different users for new licence agreements.

Videoconferencing



YOUR REQUIREMENT

You want to carry out and administrate video, audio and web conferences for your project work with one or more project partners.

OUR OFFER

With the service “DFNconf”, the DFN-Verein offers its users in the scientific community the opportunity to carry out video, audio and web conferences. The service is tailored to the needs of research and teaching and provides the central technical components required for this. The service can be accessed via standardized web-based solutions, mobile terminals with corresponding software apps, SIP- and H.323-based VC systems or via telephone dial-in.

PRECONDITIONS FOR USE

Access to the service requires that your institution is connected to the science network X-WiN via the DFNInternet service.

>> www.gwdg.de/videoconferencing-en

Your Advantages

- Easy-to-use video, audio, and web conferencing with one or more participants
- Carrying out web-based meetings and seminars with several participants
- Use of functions such as archive for PowerPoint presentations, application sharing, chat, shared whiteboard or recordings
- Videoconferencing in High Definition (HD) quality
- No reservation or advance booking – immediately available at any time

Computer Lending Pool



YOUR REQUIREMENT

Temporarily, you need some PCs for events or projects. Or there is a serious problem with an important workstation PC which requires some repair or reinstallation, and no replacement is available at your site.

OUR OFFER

We lend out for short periods pre-configured standard Windows workstation PCs. These systems are integrated into the GWDG Active Directory. The installed software is typical for a Windows workstation, and a complete equipment with peripherals (monitor, keyboard, mouse and network cable) will be supplied.

PRECONDITIONS FOR USE

There are no requirements for using this service.

>> www.gwdg.de/lend-pc

Your Advantages

- If you are employee with an Active Directory user account and an Exchange mailbox as well as a personal network drive within the GWDG file service, you will be immediately able to continue your work.

Print Server



YOUR REQUIREMENT

You want to access your own printers at your location by connecting to central print servers or you want to use printers provided by GWDG. In any case, you don't want to install the necessary printer drivers manually on your workstations any more, and you want your printing to be done reliably and properly by queue processing.

OUR OFFER

We provide print servers as member servers of the GWDG Active Directory. These servers solely control the printers and supply suitable printer drivers to your workstations for automatic installation. Access rights for the use of your own printers can be managed with means of the Active Directory by yourself. Moreover, there are print servers for our public printers, which can be used in self-service. This server offers associated queues and printer drivers, too.

PRECONDITIONS FOR USE

Your computers are connected to the network, and your employees use GWDG accounts.

>> www.gwdg.de/printserver

Your Advantages

- No complicated driver installations are required on your computers anymore.
- Your printers will be embedded in an environment which allows flexible management of user rights.
- Depending on the printer model, page count statistics for your printers may be possible (individual consultation is advised here).
- Using public GWDG printers is very easy.

Standard Printing



YOUR REQUIREMENT

You want to print color or monochrome pages in usual ISO A4 or A3 paper size on any usual operating system.

OUR OFFER

At GWDG and in cooperation with the department IT of the central administration at several locations in the university campus (e.g. LRC in the main building of the library, LRC in KWZ area library and physics library) we provide a couple of printers from simple monochrome laser printers up to higher quality color laser printers (print speed up to 45 ISO A4-pages per minute in color) for you. Double-sided printing in monochrome or color (ISO A4 and A3) is also possible.

PRECONDITIONS FOR USE

A valid GWDG user account is required.

>> www.gwdg.de/standard-printing

Your Advantages

- All printers can be used from your workplace with your GWDG user account.
- It is easy to set up a printer connection on your computer.
- Use any printer from Windows, UNIX/Linux and macOS systems
- Printing of a few copies of a document, regardless of the extent, free of charge in €
- Consultation by competent and experienced staff at most of the printer locations

Large Format Printing



YOUR REQUIREMENT

You want to print quickly and easily high quality posters or banners in sizes of ISO A0 or larger. Depending on printer and ink, posters may permanently be presented at daylight.

OUR OFFER

At GWDG and at several locations in the university campus (e.g. LRC in the main building of the SUB, Medical Library, Institute of Geography and Physics Library) we provide various large-format printer for you. On request and inexpensively, we can laminate them to protect them from dirt and weather.

PRECONDITIONS FOR USE

A valid GWDG account is required.

>> www.gwdg.de/large-format-printing

Your Advantages

- All printers can be used from your workplace with your GWDG user account.
- It is easy to set up a connection to a large format printer on your computer.
- Printing of up to two copies of a poster or banner is free of charge.
- Consultation by competent and experienced staff at the GWDG
- Laminating of posters up to 90 cm width possible

Large Format Scanner



YOUR REQUIREMENT

You need to scan large maps, technical drawings, plans or posters in high quality.

OUR OFFER

With our large format scanner "Contex HD4230" you are able to scan documents with a width of up to 106 cm (42"). The resolution will be 600 dpi and the maximal color depth 48 bit. Of course we will guide you in how to use the system.

PRECONDITIONS FOR USE

A valid GWDG account is required.

Your Advantages

- Assistance and advice by experienced staff
- Usage is free of charge
- Further editing and printing of your scans is possible

>> www.gwdg.de/large-format-scanner

Scientific Data Management



YOUR REQUIREMENT

You want to secure your research data or research results and need a strategy for the management of your scientific resources to ensure their accessibility on a long-term basis.

OUR OFFER

We provide data management interfaces for long-term storage to allow scientists to manage their data, e.g. following the DFG guidelines. In addition, we offer technologies and tools to support the handling of such data, as there are CDSTAR, the ePIC persistent identifier service or clients to use the data management interfaces. These services can be combined to realise more complex, added value services. Among other things, we support you building such solutions, integrating them with your legacy applications within your scientific working environment, or designing data management plans.

PRECONDITIONS FOR USE

All institutes can use this services. It is advisable to consult with the GWDG in order to align requirements and service configuration.

>> www.gwdg.de/data-management

Your Advantages

- GWDG operates a number of different data management services with diverse requirements.
- Specialised solutions can be realised for your applications
- Profit from GWDG's experience and existing implementations for a large range of scientific domains

IT Security Consulting



YOUR REQUIREMENT

You would like to be informed about the threats to the security of your IT systems and be supported by the establishment and implementation of IT security measures. You would like the IT security concepts or guidelines of your institution to be put into practice.

OUR OFFER

We offer a comprehensive consultation in regard to IT security. We support you with an analysis of IT security risks as well as the design and implementation of IT security concepts.

PRECONDITIONS FOR USE

The consultation and information are available to all institutes.

>> www.gwdg.de/it-security

Your Advantages

- You receive competent and practice-oriented information on IT security.
- You receive a jointly developed analysis of the IT security risks for your IT systems.
- You receive recommendations for adequate IT security measures based on the risk analysis.
- You operate your IT systems with our support compliant with IT security standards and suitably protected against concrete IT security risks.

Advice on Hardware Purchase



YOUR REQUIREMENT

You need recommendations when purchasing new hardware like computers, printers or storage systems.

OUR OFFER

Due to extensive experience from many years of operating a large data center including tendering, functional tests and reports, we can share our knowledge with you. Additionally, helpful may be what we know about various general agreements with suppliers. Our recommendations are independent of commercial interests.

PRECONDITIONS FOR USE

There are no requirements for using this service.

>> www.gwdg.de/hardware-purchase

Your Advantages

- Your decisions will be based on more extensive knowledge.
- Our recommendations may include tips and arguments for applications for funding.
- You will get information unaffected by financial interests.

Apple Consulting and Support Centre



YOUR REQUIREMENT

You are using Macs at your institute or you are planning to do so in the future and need advice and support. You would like to use your Mac or your iOS device in combination with the GWDG Exchange server. Basic knowledge of Macs and iOS devices is available, but additional specific support is required. You do not have in-house Mac support and do not want to fall back to expensive external companies.

OUR OFFER

We offer advice regarding the application of Macs, help you to develop deployment scenarios and assist you with the implementation. You can contact us via phone or e-mail. Twice a week we offer special telephone consultation to assist you with any questions concerning Mac. If it is not possible to solve your problem on the phone, we may also help you via AnyDesk and/or Remote Desktop or make an appointment to visit you at your institute.

PRECONDITIONS FOR USE

There are no requirements for using this service.

>> www.gwdg.de/mac-en

Your Advantages

- Long-term experience in Mac user support
- Two Mac workstations at the GWDG
- Fast and straightforward help in urgent cases

ABOUT US

GWGD is a shared corporate facility of the Georg-August-Universität Göttingen and the Max Planck Society. It fulfils the function of a joint computing and IT competence centre. The GWGD is also a research centre to advance scientific research infrastructures. Moreover the GWGD promotes the training of professional staff for information technology.

Its main tasks include the operation of basic IT services, data management solutions and computing facilities, as well as the provision of special systems and the supervision of the data network GÖNET which connects the institutes in Göttingen. Via GWGD GÖNET is connected to the national scientific network X-WIN and the internet.

Being an IT competence centre GWGD advises and supports all institutes in all questions related to scientific data processing.

The GWGD operates several data centres in Göttingen which are at different locations with common security mechanisms. The typical data protection requirements are fulfilled.

The GWGD is ISO 9001 certified.



SERVICE OFFERS

GWGD offers its customers a broad spectrum of information and communication services for science. This brochure outlines a selection of its interesting range of services on offer. The complete range of services can be found under www.gwdg.de/service-catalogue.

COSTS

Most of GWGD's services are free of charge for the University of Göttingen as part of its basic service catalogue and associated quota system. This also includes all the services listed in this brochure. The calculation is done in so-called units of work (AE) from the respective quota of the institute.

In addition the GWGD can provide individual solutions and services beyond the basic services. For some of these services special arrangements may apply.

OPENING TIMES

The GWGD user rooms and service hotline (information) are open (with the exception of public holidays):

- Monday to Friday from 7.00 – 21.00 hrs
- Saturday and Sunday from 10.00 – 18.00 hrs

MAINTENANCE PERIODS

GWDG services are designed to run uninterruptedly on all week days with the exception of the required time for scheduled maintenance of hardware and software. The preferred maintenance period is Thursdays between 17.00 hrs and 19.00 hrs. In case that service interruptions are expected, we inform our customers through our website and news channels. In urgent cases (e.g. important security updates) different times are possible.

OPERATING MESSAGES

Current operating messages can be found under www.gwdg/news.

SERVICE HOTLINE

The service hotline is available during opening times:

- WWW: support.gwdg.de (ticket system)
- E-Mail: support@gwdg.de (ticket system)
- Phone: +49 551 201-1523

FACULTY CARER

Every faculty of the University of Göttingen has a designated contact person at GWDG. More information about this can be found under www.gwdg.de/uni-faculty-carer.

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