

System Requirements

BIC CLOUD

GBTEC Software + Consulting AG

System Requirements User Workstations (*1)

Hardware Requirements BIC Cloud User Workstations

CPU	4 CPU cores
RAM	8 GB (*2)

On user workstations with less hardware resources performance of BIC Cloud will degrade. Performance may be sufficient for limited use cases like read-only viewing.

Software Requirements BIC Cloud Client User Workstations

Web Browser	Supported: Google Chrome, Microsoft Edge in the latest Version, Microsoft Internet Explorer 11, Mozilla Firefox (latest ESR) Recommended: Google Chrome
Web Browser Settings	JavaScript und Cookies activated, at least 50 MB free memory for web databases
Printing	PDF Viewer (e.g. Adobe PDF)

(*1) BIC Cloud is a browser based tool and there is no need of a separate client installation. Nevertheless, there are hardware requirements for the computer which runs the web browser.

(*2) The user workstation must have 64 bit operating system to be able to use all physical RAM.

System Requirements Server

Hardware Requirements BIC Cloud Server for On-Premises

Hardware for server is only required for on-premises installations. For public BIC Cloud and private BIC Cloud installations hardware is provided by GBTEC.

	Application Scenario (*3)		
	Small	Medium	Large
	5 designers 250 viewers 15 Governance users	50 designers 5000 viewers 150 Governance users	150 designers 15000 viewers 500 Governance users
	Server resources		
CPU (*4)	8 CPU cores	8 CPU cores	16 CPU cores
RAM	32 GB	32 GB	64 GB
Storage (*5)	120 GB	250 GB	500 GB

(*3) Please choose the columns with the scenario that matches your case of application. In the cells you will find the necessary system requirements. In case of divergent system configurations please get in touch with your GBTEC contact to clarify the compliance of the system requirements.

(*4) The recommended number of cpu cores refer to Intel Xeon processors. When using different processors, the recommended cores must be multiplied by 1.5 to 2, due to the performance of the different processor architecture.

(*5) We suggest local hard disc systems based on SAS disks with 15.000rpm and 6 Gbps interface. Minimal requirement are SATA or Nearline SAS hard discs with 6 Gbps. When using a Storage Area Network (SAN) 160 MB/s transfer rate and 5ms access time are the minimum requirement.

Software Requirements BIC Cloud Server

Software for server is only required for on-premises installations. For Public Cloud and Private Cloud installations software is provided by GBTEC.

Operating System	Ubuntu 16.04 (LTS) 64-bit version (*6) Debian 8.0 (LTS) 64-bit version (*6) CentOS 7 64-bit version (*6) Oracle Linux 7.3 64-bit version (*6) Red Hat Enterprise Linux 7 64-bit version (*6) SUSE Linux Enterprise 12.x 64-bit version (*6) Windows Server 2012 R2 64 bit, Windows Server 2016 (*6, *7)
Software Packages	Docker Engine (at least version 17.03) (*6), Docker Compose (at least version 1.12.2) (see https://docs.docker.com/engine/installation) For Windows Server: Hyper-V server role activated and Docker Machine (Version 0.10.0)
Internet Connection	For installation, software updates, patches and transfer of log files for problem diagnosis an internet connection is required. Internet connections through proxy servers are supported. For security reasons, it is possible to restrict internet access to defined servers or allow internet connections only temporarily.
Backup & Recovery	For rapid restore in case of hardware failure we recommend snapshots of the (virtual) hard disks. For long term data backup BIC Cloud automatically exports data daily to a file system folder. This folder has to be archived daily by your IT department. In case of restore the backup data has to be restored in this file system folder and will be loaded with a special administrative command.
Single Sign On	Integration of a private BIC Cloud with ActiveDirectory and Single Sign On requires ActiveDirectory Federation Services 2.0 or higher with SAML 2.0 activated. Integration will require additional services for implementation, configuration and coordination with customer's IT department offered on time & material basis.

(*6) Docker Engine is available as "Community Edition" free of charge or as "Enterprise Edition" subscription with extended features and support. For availability of editions for your preferred operating system and pricing see: <https://docs.docker.com/engine/installation/#supported-platforms>

(*7) Linux is the recommended operating system for BIC Cloud. On Windows Server operating systems, Docker Engine runs on Hyper-V virtualization. This may require increased processing power in terms of cpu clock speed or number of CPU cores.