

# Requirements BIC GRC

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# 1 System Requirements User Workstations

## 1.1 Hardware Requirements BIC GRC User Workstations <sup>1</sup>

<b>CPU</b>	4 CPU cores
<b>RAM</b>	8 GB <sup>2</sup>

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

## 1.2 Software Requirements BIC GRC User Workstations

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

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<sup>1</sup> BIC GRC 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.

<sup>2</sup> The user workstation must have 64 bit operating system to be able to use all physical RAM.

## 2 System Requirements Server

### 2.1 Hardware Requirements BIC GRC Server for On-Premises

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

Application Scenario <sup>3</sup>	Small	Medium	Large
	500 viewers	2000 viewers	5000 viewers
	100 workflow participants	400 workflow participants	1000 workflow participants
<b>Server Resources</b>			
<b>CPU</b> <sup>4</sup>	8 CPU cores	8 CPU cores	16 CPU cores
<b>RAM</b>	32 GB	48 GB	64 GB
<b>Storage</b> <sup>5</sup>	120 GB	250 GB	500 GB

<sup>3</sup> 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.

<sup>4</sup> 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.

<sup>5</sup> 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.

## 2.2 Software Requirements BIC GRC Server

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

<b>Operating System</b> <sup>6</sup>	<ul style="list-style-type: none"> <li>• Ubuntu 16.04 or 18.04 (LTS) 64-bit version</li> <li>• Red Hat Enterprise Linux 7 64-bit version</li> <li>• SUSE Linux Enterprise 12.x 64-bit version</li> <li>• Windows Server 2012 R2 64 bit, Windows Server 2016 <sup>7</sup></li> </ul>
<b>Software Packages</b>	<ul style="list-style-type: none"> <li>• Docker Engine (at least version 18.09.2) <sup>8</sup></li> <li>• Docker Compose (at least version 1.12.2)</li> </ul> <p>(see <a href="https://docs.docker.com/engine/installation">https://docs.docker.com/engine/installation</a>) For Windows Server: Hyper-V server role activated and Docker Machine (Version 0.10.0)</p>
<b>Internet Connection</b>	<p>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.</p>

<sup>6</sup> In case of requirements to use other OS versions or distributions contact GBTEC for known incompatibilities and limitations.

<sup>7</sup> Linux is the recommended operating system for BIC GRC. 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.

<sup>8</sup> 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>

<b>Backup &amp; Recovery</b>	For rapid restore in case of hardware failure we recommend snapshots of the (virtual) hard disks. For long term data backup BIC GRC 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.
<b>Single Sign On</b>	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. On-premises integration is supporting SAML 2.0 or Kerberos/LDAP protocol. Integration will require additional services for implementation, configuration and coordination with customer's IT department offered on time & material basis.