

## Hardware Requirements for new installation and upgrade from previews build

### Installation and Configuration

The BackBox server is running on hardened CentOS a Linux based Operating System (no operating system installation is required prior to the BackBox installation phase).

Below are the requirements for proper application installation and operation.

### Hardware Requirements

System Components	Small/Medium Environments	Large Environments	Enterprise Environments
Processor	4 CPU Cores (64bit)	6 CPU Cores (64bit)	8 CPU Cores (64bit)
Memory	4GB	6GB	8GB
Disk Space*	80GB (250GB recommended)	500GB	1TB
Install Media	Boot from ISO file	Boot from ISO file	Boot from ISO file
Network Interface	Required	Required	Required

\*Disk space requirements are based on an estimated backup files saved for 12 months. For more information see the sizing doc

### Virtual Server Requirements

BackBox server can be installed on the following virtual environments:

- VMWare ESX, ESXi (adapter type: Flexible)
- Xen Server
- Microsoft Hyper-V (using legacy network adapter)
- Oracle Virtual Box

### Access Requirements

- To manage the BackBox server, HTTPS and SSH is required from the Client IP to the BackBox Server IP.
- To allow proper operations of BackBox to the devices, please allow access from BackBox Server IP to the Devices that it's going to backup. The most common ports you need to open are: SSH (TCP 22), Telnet (TCP 23), HTTP (TCP 80), HTTPS (TCP 443)  
Some of the devices might require to communicate back to the BackBox Server using FTP (TCP 20,21), SSH (TCP 22) and TFTP (TCP/UDP 69).
- Credential Information – BackBox in most cases will require a privileged user in order to perform the different operations.  
Please make sure that usernames and passwords to the devices are available when configuring them within the BackBox Interface.

### Client Requirements

BackBox support the latest version of the most common browsers (Chrome and Firefox).

### Additional Requirements

Required Screen Resolution: 1024x768 (Recommended Screen Resolution: 1280x1024)