



YouTestMe

System Requirements and Installation
Basic Information

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1 Introduction

This document is intended to provide you with the basic information related to system requirements and installation of the YouTestMe GetCertified online examination platform.

2 System Requirements

The required capacity of the system depends on the following parameters:

1. Number of concurrent users on the system.
2. Average load that one user generates on the system.
3. Type and performance of hardware (CPU type, storage type, network capacity, etc.).

The table below represents a comparison of various activities and their load on the system.

#	Activity	Load on the System
1.	Taking the test	Light
2.	Registering user	Light
3.	Downloading large files	Medium
4.	Running simple reports	Medium
5.	Running complex reports	Heavy
6.	Batch operations like loading large amounts of data from external files	Heavy

The overall performance of the system will depend on the load and infrastructure capacity.

For more precise estimates, we recommend doing a proof of concept designed to produce concrete data in a specific environment.

Thanks to its scalability, the system can be easily upgraded by adding more hardware resources. Based on the conservative estimates regarding the load put on the system by users, a table below is created with recommended and minimum system hardware requirements.

Edition	Number of concurrent users	Recommended	Minimum
Starter	<50	- One VM (4 vCPU, 16 GB RAM)	- One VM (2 vCPU, 8 GB RAM)
Standard	50-200	- One DB VM (4 vCPU, 16 GB RAM) - Two Application server VMs (4 vCPU, 24 GB RAM) - One Load balancer VM (2 vCPU, 8 GB RAM)	- One DB VM (2 vCPU, 8 GB RAM) - Two Application server VMs (2 vCPU, 16 GB RAM) - One Load balancer VM (2 vCPU, 4 GB RAM)
Enterprise	200-300	- One DB VM (4 vCPU, 16 GB RAM) - Three Application Servers (4 vCPU, 24 GB RAM) - One Load balancer VM (2 vCPU, 8 GB RAM)	- One DB VM (2 vCPU, 8 GB RAM) - Three Application Server VMs (2 vCPU, 16 GB RAM) - One Load balancer VM (2 vCPU, 4 GB RAM)
	300+	- Add one Application server VM (4 vCPU, 24 GB RAM) per 100 concurrent users beyond the initial number of concurrent users - Add 8 GB RAM to the database instance per 100 concurrent users beyond the initial number of concurrent users and 2 vCPU per 200 concurrent users	- Add one Application Server VM (4 vCPU, 16 GB RAM) per 100 concurrent users beyond the initial number of concurrent users

CPU is considered to be a physical socket. YouTestMe supplies all VMs. YouTestMe performs benchmarks on the following server configuration:

Component	Specification
Motherboard and chipset	Supermicro X9SRE
CPU	One Intel Xeon E5-1650 6 Core CPU @3.2GHz
RAM	64 GB
HDD	Local ATA, Non-SSD, Soft RAID 1
Hypervisor Software	VMware vSphere 5
Network Adapter	1 Gbps

3 Installation and Maintenance

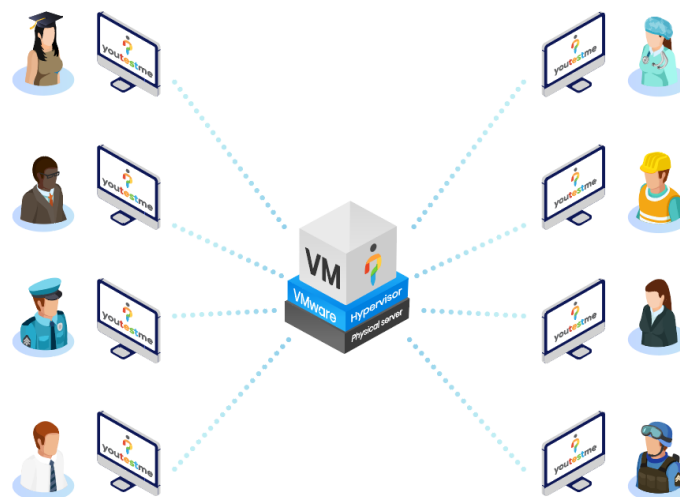
YouTestMe GetCertified is distributed as a Virtual Appliance with the following characteristics:

- It can run on any platform that supports VMware Virtualization or Oracle VirtualBox (please see table below for a detailed list of supported hypervisor software)
- It does not depend on the underlying OS
- The virtual appliance has all required software components preinstalled and preconfigured (operating system, database, application server, application, etc.)
- Easy installation and configuration - the entire system can be deployed within minutes
- Easy backup and restore of entire system and data
- Easy migration to other servers or other physical locations
- Ability to easily duplicate the entire system and deploy multiple application instances

YouTestMe Virtual Appliance is supported on the following major hypervisor software:

Hypervisor Software	Description
VMware ESXi	Used in data centers
VMware Player	Suitable for workstations and small to medium servers
VMware Workstation	Suitable for workstations and small to medium servers
Oracle VirtualBox	Suitable for workstations and small to medium servers

Virtual Appliance runs within a physical server, as demonstrated in the picture below:



Virtualization is a popular concept in data centers, and it is likely that your organization already has an infrastructure with hypervisor software.