

deaddrop server requirements

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Abstract

This describes the server requirements for both a physical deaddrop server and a virtual server. This document explains the recommendations for a server purchase or the specifications that a virtual server needs.



Figure 1:

1	Server setup recommendations	3
1.1	Physical Server	3
1.2	Virtual server	3
1.3	Disk usage (both virtual and physical server)	3

1 Server setup recommendations

The basis for the hardware and virtual hardware recommendation is a 200 user license with normal day-to-day usage of the service. With normal day-to-day usage we mean 20-30% of the licensed user use it daily for single file operations of small-to-medium size files (1-100Mb files). Depending on the usage and the number of simultaneous deaddrop users the requirements may be different.

1.1 Physical Server

The table below will show the requirement for a physical server running deaddrop

	deaddrop	deaddrop with AV-plugin
CPU ¹	One 64bit 2 GHz, 8-core	Two 64bits 2,3 GHz, 8-core
Memory	8GB DDR4 ECC ~2000 MHz	16GB DDR4 ECC ~2000 Mhz
PSU	Two, at least one connected to UPS	Two, at least one connected to UPS
Network card ²	minimum 1Gbit	minimum 1Gbit
Hard drives	2 in software raid	2 in software raid
SAS / RAID card	Support for direct access(HBA)	Support for direct access(HBA)
Chassis units	1U chassis	1U chassis
Rails	Click rails	Click rails
Cable Management	1U chassis	1U chassis
Arm		

1.2 Virtual server

- The same hardware specification as a physical server where possible.
- The virtualisation environment must ensure proper disk I/O (i.e. enough I/O bandwidth).
- The virtualisation environment must ensure proper network connection.
- The virtualisation environment should support UEFI boot.
- The virtualisation environment should support Secure boot.
- The virtualisation environment should support strong RNG to guests.

1.3 Disk usage (both virtual and physical server)

- For speed, we recommend Enterprise SSD disks.
- Deaddrop server requires 30Gb of disk space for the deaddrop application and Operating System. This is excluding the deaddrop end-users disk space.
- Uploaded files can be stored up to 14 days before being removed.
- Low traffic deaddrop server with 200+ users may use at least 50Gb of diskspace

¹ [REDACTED] The CPU usage will be most intensive during malware scanning

² [REDACTED] 1Gbit network speed allows 100 users to simultany upload/download in 10Mbit/s which may be slow if deaddrop is used for large files

The calculation example below is minimum disk space for uploaded files. Calculation based on that all licensed users per the “X users”-header used deaddrop in accordance with numbers in left column. column.

	10 users	100 users	500 users
5Mb files, 2 receivers	100MB	1GB	5GB
50Mb files, 5 receivers	2,5GB	25Gb	125GB
1Gb files, 2 receivers	20GB	200GB	1TB
1Gb files, 10 receivers	100GB	1TB	5TB

Permanent users can allow their contacts to use the system for a limited time. The limited users can also upload files that use the disk space

If the antivirus plugin is used, will malware-tagged files use disk space in the quarantine directory

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