SERVER INSTALLATION INSTRUCTIONS

The server program is available for Windows 10 or higher, or for Linux (the majority of versions) or macOS. This program was developed in Golang language, so you can Google the phrase “golang supported platforms” and see what operating systems are supported. The program should be built by Golang, but a prebuilt version for Windows 10 and Linux are provided in the package. You should create any folder for this program, for example, C:\Skjerm and copy the content of the provided package into this folder. It can be any folder, but it is better if the path of this folder does not contain spaces and does not contain special characters. This program has embedded database in the file system, so it must be able to make changes inside these folders (“db” and “html” folders).

For example, on Linux you can create a folder /var/software/skjerm.

The server program occupies a port (right now it is port 80, but it can be changed) and can consume up to 300Mb of RAM and up to 1CPU.

So, port 80 (or another) must be available for this server program on the server computer. You must make this port available in network for other computers (for Windows 10, see the same instructions for TV software installation).

Normally, the server sleeps (it is woken up only one time per minute to check the connection to all TV PCs or when the frontend user starts to work in the browser).

When the server sleeps, on my computer it consumed almost 0% CPU and 5MB RAM.

Et bilde som inneholder elektronikk, datamaskin, tekst, computer

Automatisk generert beskrivelse

The server communicates with frontend user’s browsers and with TV sets. So, it must be available for all computers participating in this process. For better security, it is recommended to make this server available only within the corporate network, so no one can attack it from outside.

The server program can be built from the sources.

To do it, you must follow these steps:

1. Install GOLAND language to your computer (see <https://go.dev/doc/install> at least version 1.21or later.
2. Download the server program from the github: <https://github.com/VDobryvechir/tvengine> to any folder
3. Prepare a small script to run for your specific version (you can even build a version for Linux on the Windows 10 computer). They must be run inside the folder where you downloaded the code.

It must contain the following lines, for example, for Linux:

SET CGO\_ENABLED=0

SET GOOS=linux

go install github.com/VDobryvechir/tvengine/pkg/main

For Windows 10 build, just use the last line.

1. You can find the built program at %GOPATH%\bin\linux\_amd64\main
2. You can rename it as you wish and replace the binary file in the package provided.
3. You must set up for this program to be run automatically on the server computer. The current folder must be inside the root of the package provided.

*Note*: If you want to change the port occupied by this program, edit the file tvserverWindow.properties for WINDOWS or tvserverLinux.properties for Linux. In this file you can see

LISTEN\_PORT=80

Change 80 to any other port number available at this computer.

This program can also be configured for https, to use it you must provide certificates and specify them in file tvserver.conf.

Suppose you have 2 files: crt.pem and private-key.pem. Find the line

"listen": [":{{{LISTEN\_PORT}}}"],

Replace it as follows:

"listen": [":{{{LISTEN\_PORT}}}", "crt.pem","private-key.pem"],

In this case it is also desirable to change the port from 80 to 443.