

HOWTO run ALASKAWAA under linux (matej.sevcnikar@gmail.com)

Example is made for the alaska WAA adapter and sample programs, you can test it at <http://alaska.polzela.org/>

- First make it work on widows - as I can remember there was some problems with footer and a missing image
- install wine under linux (suse has a neat installer)
- create user special under linux ... *alaskawaa* (*this is my user*) and log as that user. Everything from here must be done under that user so that you don't spoil anything with permissions. You should log on to your desktop I use KDE, because WAA1SRV.EXE is a graphical program - it doesn't run under text mode.
- run winecfg for configuration options. As I remember I didn't change anything but I'm not sure about that. I think wine generates by default:

```
/home/alaskawaa/.wine/drive_c
```

It looks like this

```
drwxr-xr-x  4 alaskawaa users 4096 Mar  8  2012 Program Files
drwxr-xr-x  4 alaskawaa users 4096 Mar  8  2012 users
drwxr-xr-x 12 alaskawaa users 4096 Mar  9  2012 windows
```

Here you create a directory

```
md server
md source
```

```
drwxr-xr-x  4 alaskawaa users 4096 Mar  8  2012 Program Files
drwxr-xr-x  2 alaskawaa users 4096 Nov 20 18:55 server
drwxr-xr-x  3 alaskawaa users 4096 Mar  7  2012 source
drwxr-xr-x  4 alaskawaa users 4096 Mar  8  2012 users
drwxr-xr-x 12 alaskawaa users 4096 Mar  9  2012 windows
```

Copy the entire \SERVER and \SOURCE (runtime and htm) from the Alaska distribution, I have also added all of the runtime libraries to server directory. It looks like this

```
-rw-r--r--  1 alaskawaa users  36327 Nov 21 17:08 WAA11211.LOG
-rwxr--r--  1 alaskawaa users 449536 Apr 27  2006 adac20b.dll
-rwxr--r--  1 alaskawaa users  69120 Apr 27  2006 adac20c.dll
-rwxr--r--  1 alaskawaa users  610816 Aug 16  2007 ascom10.dll
-rwxr--r--  1 alaskawaa users 139264 Dec  6  2006 ascom10c.dll
-rwxr--r--  1 alaskawaa users 346624 Jun  1  2006 asinet10.dll
-rwxr--r--  1 alaskawaa users  86016 Apr 27  2006 asinet1c.dll
-rwxr--r--  1 alaskawaa users  91136 Apr 27  2006 asiutl10.dll
-rwxr--r--  1 alaskawaa users  32768 Apr 27  2006 aslogresource.dll
-rwxr--r--  1 alaskawaa users 132096 Apr 27  2006 asrdbc10.dll
-rwxr--r--  1 alaskawaa users 145920 Oct 31  2006 cdxdbe.dll
-rwxr--r--  1 alaskawaa users 118784 Apr 27  2006 dbfdbbe.dll
-rwxr--r--  1 alaskawaa users  96768 Apr 27  2006 deldbe.dll
-rwxr--r--  1 alaskawaa users 131072 Apr 27  2006 foxdbe.dll
-rwxr--r--  1 alaskawaa users 123904 Oct 30  2006 ntxdbe.dll
-rwxr--r--  1 alaskawaa users  84992 Apr 27  2006 sdfdbe.dll
-rwxr--r--  1 alaskawaa users 198144 Feb 20 1996 som.dll
-rwxr--r--  1 alaskawaa users  2300 May 18  2000 waalerr.htm
-rwxr--r--  1 alaskawaa users  3072 Mar  8  2012 waalsrv.cdx
-rwxr--r--  1 alaskawaa users  462 Aug  6  2001 waalsrv.cfg
-rwxr--r--  1 alaskawaa users  498 Mar 10  2012 waalsrv.dbf
-rwxr--r--  1 alaskawaa users 776704 Apr 27  2006 waalsrv.exe
```

```

-rwxr--r-- 1 alaskawaa users      1024 Mar 10 2012 waalsrv.fpt
-rwxr--r-- 1 alaskawaa users  212992 Apr 27 2006 waaluser.dll
-rwxr--r-- 1 alaskawaa users    4350 Apr 27 2006 waaluser.lib
-rwxr--r-- 1 alaskawaa users   69120 Apr 27 2006 waalwap.dll
-rwxr--r-- 1 alaskawaa users    2562 Apr 27 2006 waalwap.lib
-rwxr--r-- 1 alaskawaa users   77312 Apr 27 2006 xppdbg.dll
-rwxr--r-- 1 alaskawaa users  169472 Apr 27 2006 xppnat.dll
-rwxr--r-- 1 alaskawaa users  1803264 Sep  7 2006 xpprt1.dll
-rwxr--r-- 1 alaskawaa users    89088 Apr 27 2006 xpprt2.dll
-rwxr--r-- 1 alaskawaa users  1496576 Oct 23 2006 xppui1.dll
-rwxr--r-- 1 alaskawaa users  1282048 Jun 20 2006 xppui2.dll
-rwxr--r-- 1 alaskawaa users   606208 Jun  1 2006 xppui3.dll

```

Didn't change anything in
cat waalsrv.cfg

```

#
# this is the package configuration file
# enter name and location package-DLLs
# file name must not include the extension
#

```

```

addpkg = ..\source\samples\waa\alaska1\alaska1
addpkg = ..\source\samples\waa\misc\myfirst
addpkg = ..\source\samples\waa\misc\htmldemo
addpkg = ..\source\samples\waa\misc\email
addpkg = ..\source\samples\waa\klondike\menu
addpkg = ..\source\samples\waa\klondike\klondike
addpkg = ..\source\samples\waa\frameset\frameset

```

I have also copied all the runtime libraries to
 /home/alaskawaa/.wine/drive_c/windows/system32
 I can't rely remember why. Perhaps you should only copy it to the system32

In the home directory of your user you will find a file called .bashrc add
 though I think this constants are only usable under the bash environment.

```

declare -x WAA_DEVMODE="OFF"
declare -x WAA_HOST="localhost"
declare -x WAA_INTERNAL_LOG="OFF"
declare -x WAA_PORT="1024"
declare -x WAA_TRACE="OFF"
declare -x WAA_WORKERTHREADS="5"

```

Log off and log on - *export* should show those variables.

Now you can start the waa server. At first run wine will probably report
 some windows libraries missing, copy them to system32 directory.

Congratulations now you are running WAA1SRV.EXE under linux.

Log in as root
 Now let's go to the apache side:

I hope you know how to configure apache. My version of virtual host:

```

<VirtualHost *>
  DocumentRoot /srv/www/alaska.polzela.org
  ServerName alaska.polzela.org
  ServerAdmin matej.sevcnikar@gmail.com
  <Directory /srv/www/alaska.polzela.org>
    AllowOverride None

```

```

    Order allow,deny
    Allow from all
    DirectoryIndex index.htm
</Directory>
ScriptAlias /cgi-bin/ /srv/www/alaska.polzela.org/cgi-bin/
<Directory /srv/www/alaska.polzela.org/cgi-bin>
    AllowOverride None
    Options +ExecCGI -Includes
    Order allow,deny
    Allow from all
    DirectoryIndex index.htm
</Directory>
</VirtualHost>

```

My directory structure:

```

drwxr-xr-x 2 samba samba 4096 Mar  8 2012 alaskal
drwxr-xr-x 2 root  root  4096 Mar  8 2012 cgi-bin
-rwxr--r-- 1 samba samba 4305 Apr 27 2006 index.htm
drwxr-xr-x 2 samba samba 4096 Mar  8 2012 misc
drwxrwxrwx 2 samba samba 4096 Mar  8 2012 temp

```

Notice the permissions on the temp directory. Did cost me a day to figure it out.

Copy the index.htm to the root of your web server virtual host

Create directory alaskal and copy alaskal.htm into it.

Create directory misc and copy email.htm and myfirst.htm into it.

Copy \WAA1W32\GATEWAY\linux\waalgate.cfg and waalgate.exe to your /cgi-bin/

Create directory temp and grant rwx to others.

```

My .cfg
hostname = localhost
port     = 1024
docroot  = /srv/www/alaska.polzela.org
smtp host = mailz

```

restart apache

now if everything is ok WAA should work.

The third thing is how to make it run when you logoff from your account:

First you have to make sure to autostart it when you log into the account.

Here is a small script to make it happen. Copy it under

/home/alaskawaa/.kde4/Autostart and make it executable.

```

#!/bin/bash
# By MatejS - feel free to copy, modify, even print and wipe ...
# startup alaska WAA with wine

export WAA_WORKERTHEADS=5
export WAA_HOST=localhost
export WAA_PORT=1024
export WAA_TRACE=OFF
export WAA_DEVMODE=OFF
export WAA_INTERNAL_LOG=OFF

cd ~/.wine/drive_c/server/
wine waalsrv.exe

```

The fourth thing is to autostart and stop the WAA when you reboot the server and make it active when you disconnect from the server. Again a small script. Copy it under /etc/init.d, now you can run it as a service under runlevel 5. Vnc server must be running.

```
#!/bin/sh
# By MatejS - feel free to copy, modify, even print and wipe ....
# startup vncserver under another user, at disconnect, session remains
active
#

### BEGIN INIT INFO
# Short-Description: Start vncsession under user alaskawaa :5
# Description:      Under this session Alaska WAA is run under Wine
### END INIT INFO

VNCSERVER="vncserver -geometry 1024x768 -depth 32 :5"

case "$1" in
    start)
        echo -n "Starting AlaskaWAA:"
        su alaskawaa -c "$VNCSERVER -ac"
        ;;
    stop)
        echo -n "Stopping AlaskaWAA:"
        su alaskawaa -c "vncserver -kill :5"
        ;;
    restart)
        $0 stop
        $0 start
        ;;
    *)
        echo "Usage: $0 {start|stop|restart}"
        exit 1
        ;;
)

Esac
```