

Installation guide of NVS Greenex technical monitoring system.

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Short introduction:

NVS Greenex consists of 3 parts:

Part1: Database : Postgresql DB 14.5 and newer (default database type).

Part2: Base system built on Java 1.8 with a web-browser user interface.

Part3: Packages with various functions are to be imported into the base system.

There isn't need to have much resources : your system will start with 4Gb RAM and 40 Gb HDD.

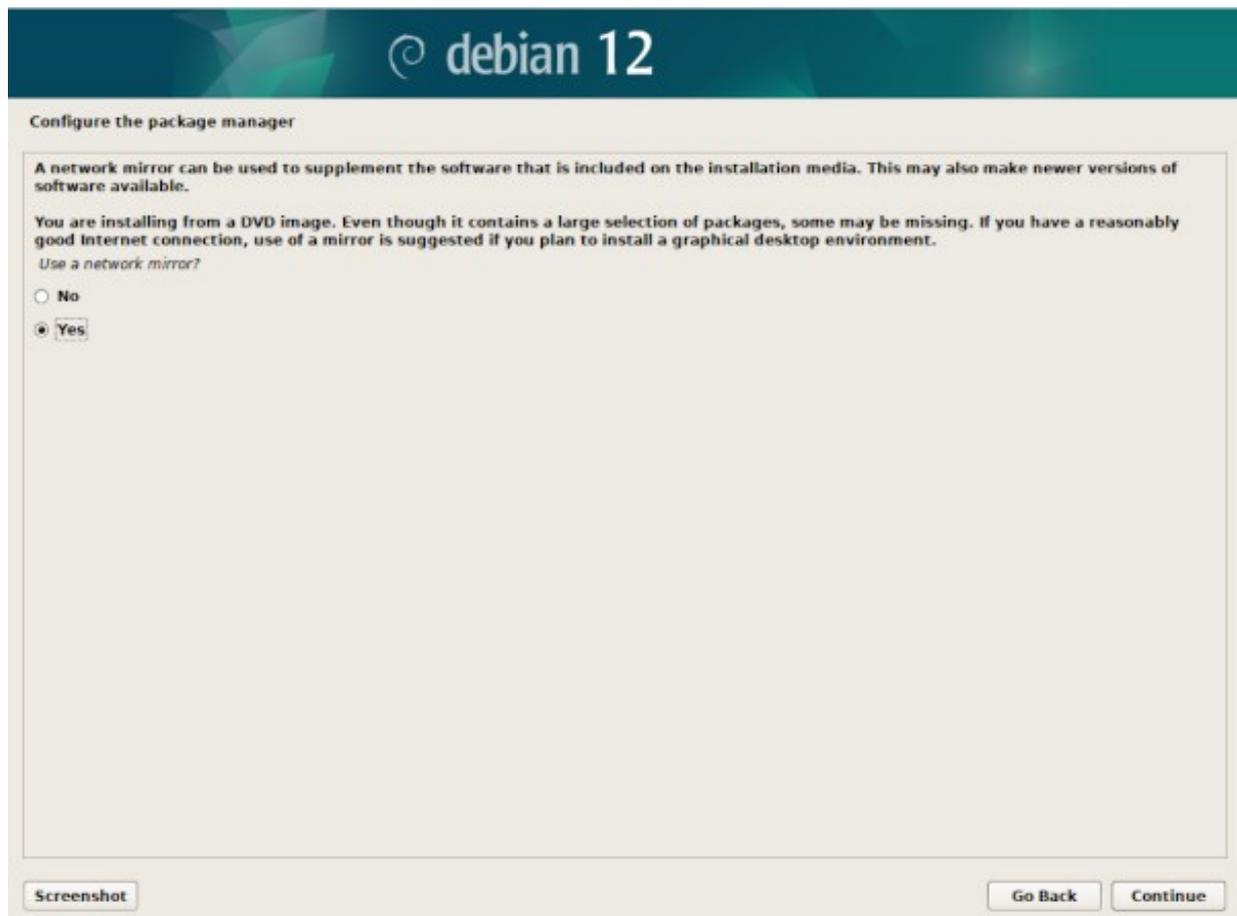
In order to avoid junk information, let's take a look at the simplest way to install a system:

If you wish to use other versions, it's up to you. The process has been used on Debian, SLES, openSUSE with Postgresql 14.5,15,16. There are also versions of MySQL, Oracle and SAP HANA, even for Windows but not have been fully tested yet. The current version is Linux AMD64+Postgresql >=14.5.

Installation part 1 of 3: install Debian Linux 12 with Postgresql 15 database:

Search "debian 12 download" and download .iso file.

During installation, choose "use network mirror" and set a proxy if necessary. In case you omitted this, you will be able to correct it later: Set the option "use ssh server" on the next steps too.



`/etc/apt/sources.list` – for links on network shares for Debian
`/etc/apt/apt.conf` – for proxy, if it needs.

After you set up network settings in `/etc/network/interfaces`, for example

```
auto enp1s0
iface enp1s0 inet static
address 192.168.10.193/24
gateway 192.168.10.1
```

and checked the correct ip in `/etc/hosts` for example:
`192.168.10.193 green193.nvs-itech.com green193`

and uncommented root permissions in `/etc/ssh/sshd_config` (optionally)
`PermitRootLogin yes`

install PostgreSQL database and check its version: it must be 14.5 or newer.

```
apt-get install postgresql
```

In case of error, “please insert the disc labeled...” - comment line with DVD in /etc/apt/sources.list and refresh :

(sudo) apt-get update.

```
192.168.10.193 - PuTTY
Using username "root".
Linux green193 6.1.0-13-amd64 #1 SMP PREEMPT_DYNAMIC Debian 6.1.55-1 (2023-09-29)
) x86_64

The programs included with the Debian GNU/Linux system are free software;
the exact distribution terms for each program are described in the
individual files in /usr/share/doc/*/copyright.

Debian GNU/Linux comes with ABSOLUTELY NO WARRANTY, to the extent
permitted by applicable law.
Last login: Fri Dec 1 04:43:40 2023 from 192.168.0.1
root@green193:~# apt-get install postgresql
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following additional packages will be installed:
 libcommon-sense-perl libjson-perl libjson-xs-perl libllvm14 libpq5
 libtypes-serialiser-perl postgresql-15 postgresql-client-15
 postgresql-client-common postgresql-common sysstat
Suggested packages:
 postgresql-doc postgresql-doc-15 isag
The following NEW packages will be installed:
 libcommon-sense-perl libjson-perl libjson-xs-perl libllvm14 libpq5
 libtypes-serialiser-perl postgresql postgresql-15 postgresql-client-15
 postgresql-client-common postgresql-common sysstat
0 upgraded, 12 newly installed, 0 to remove and 0 not upgraded.
Need to get 40.5 MB/41.6 MB of archives.
After this operation, 176 MB of additional disk space will be used.
Do you want to continue? [Y/n]
```

```
su - postgres
$ psql
psql (15.5 (Debian 15.5-0+deb12u1))
Type "help" for help.
```

from linux: not in psql(!) create user and empty database for system: here: dev – name of database and nvsuser – owner of database dev.

```
su - postgres
createuser nvsuser
createdb dev
```

```
from psql:
alter user nvsuser with encrypted password 'Zaqwerty12';
alter database dev owner to nvsuser;
```

change in /etc/postgresql/15/main/postgresql.conf
listen_addresses = '*'

in /etc/postgresql/15/main/pg_hba.conf
host all all 0.0.0.0/0 scram-sha-256

to allow connections from any IP (optionally) and
reboot
whole server or
systemctl restart postgresql

It's recommended to check if Postgresql is working as expected:

install:
apt-get install net-tools

and check:

```
netstat -tunapl | grep 5432  
tcp    0  0 0.0.0.0:5432  0.0.0.0:*    LISTEN  3656/postgres  
tcp6   0  0 :::5432      :::*         LISTEN  3656/postgres
```

Now you have installed linux and database. The next step is the installation of the base system NVS Greenex. Empty system with base functions.

```
postgres@green193:~$ psql  
psql (15.5 (Debian 15.5-0+deb12u1))  
Type "help" for help.  
  
postgres=# alter user nvsuser with encrypted password 'Zaqwerty12';  
ALTER ROLE  
postgres=# alter database dev owner to nvsuser;  
ALTER DATABASE  
postgres=# \l  
  
              List of databases  
-----+-----+-----+-----+-----+-----+-----+-----  
 Name | Owner | Encoding | Collate | Ctype | ICU Locale | Locale Provider | Access privileges  
-----+-----+-----+-----+-----+-----+-----+-----  
 dev   | nvsuser | UTF8     | en_US.UTF-8 | en_US.UTF-8 |           | libc             |  
 postgres | postgres | UTF8     | en_US.UTF-8 | en_US.UTF-8 |           | libc             |  
 template0 | postgres | UTF8     | en_US.UTF-8 | en_US.UTF-8 |           | libc             | =c/postgres +  
          |          |          |          |          |          |          | postgres=Ctc/postgres  
 template1 | postgres | UTF8     | en_US.UTF-8 | en_US.UTF-8 |           | libc             | =c/postgres +  
          |          |          |          |          |          |          | postgres=Ctc/postgres  
(4 rows)  
  
postgres=#
```

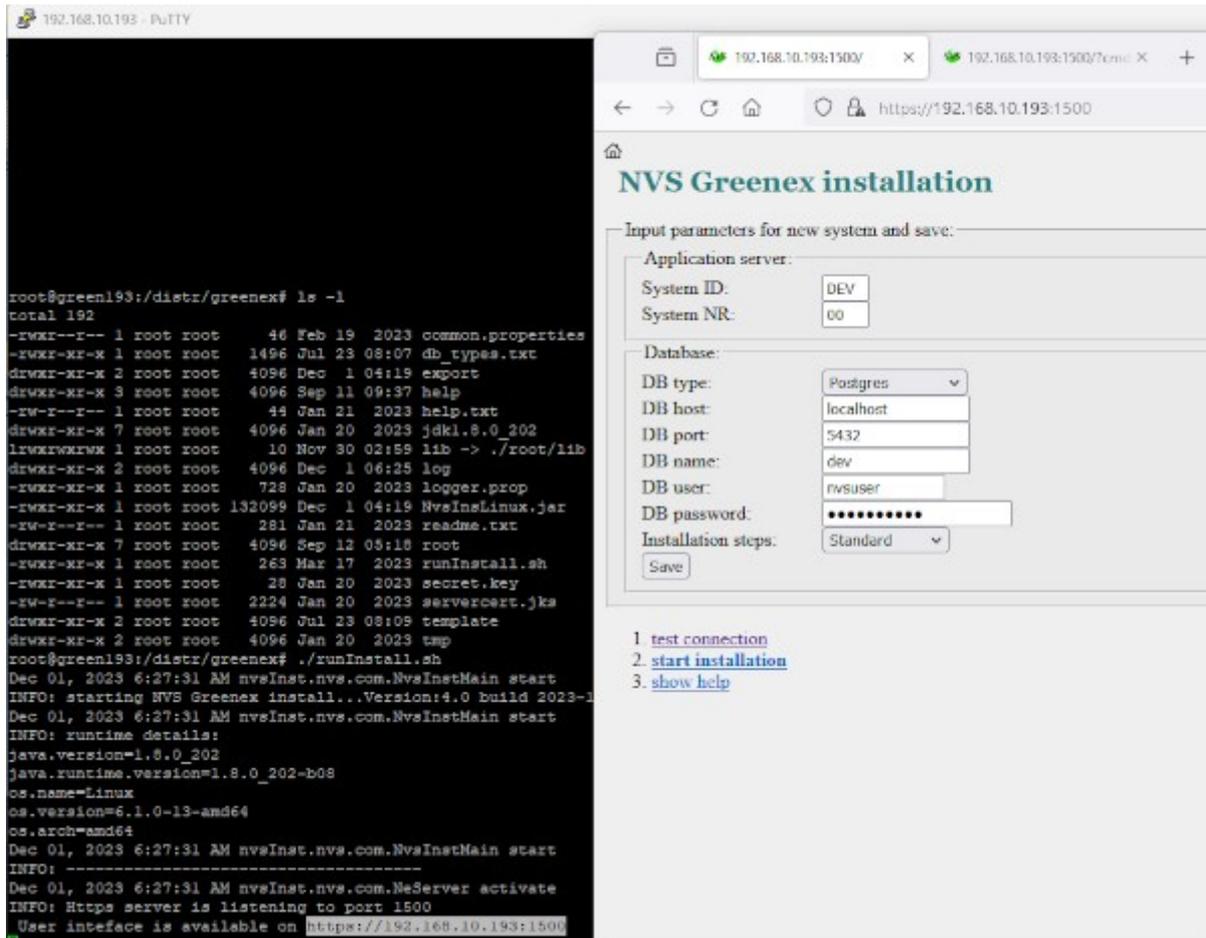
Let's move to part 2 of 3.

Installation part 2 of 3: Installation of base system NVS Greenex 4.

Download the distribution pack `greenex4.0_linux_amd64.tgz` and untar it as root:

```
tar -xf greenex4.0_linux_amd64.tgz.
```

Go to folder `greenex` and run script `runInstall.sh`



Then copy the URL from script and paste it in Firefox (recommended) . If you keep the default parameters, don't change anything , press "Save", test the connection and start installation

after installation has finished reboot server.

Check if the NVS Greenex base system is accessible:

<https://192.168.10.193:8000/sxam?login=ADMINISTRATOR&pwd=Zaqwerty13>

Here IP is 192.168.10.193 and system number is 00.

Congratulations, you have reached the final step 3 of 3.

```

INFO: select setval((select PG_GET_SERIAL_SEQUENCE("sys_jc_c
Dec 01, 2023 6:30:58 AM dbImport.nvsInst.nvs.com.PostImportPc
INFO: select setval((select PG_GET_SERIAL_SEQUENCE("sys_email
Dec 01, 2023 6:30:58 AM dbImport.nvsInst.nvs.com.PostImportPc
INFO: select setval((select PG_GET_SERIAL_SEQUENCE("sys_jc_1
Dec 01, 2023 6:30:58 AM dbImport.nvsInst.nvs.com.PostImportPc
INFO: select setval((select PG_GET_SERIAL_SEQUENCE("sys_aler
Dec 01, 2023 6:30:58 AM dbImport.nvsInst.nvs.com.PostImportPc
INFO: select setval((select PG_GET_SERIAL_SEQUENCE("sys_job_
Dec 01, 2023 6:30:58 AM dbImport.nvsInst.nvs.com.PostImportPc
INFO: select setval((select PG_GET_SERIAL_SEQUENCE("sys_role
Dec 01, 2023 6:30:58 AM dbImport.nvsInst.nvs.com.PostImportPc
INFO: select setval((select PG_GET_SERIAL_SEQUENCE("sys_auch
Dec 01, 2023 6:30:58 AM dbImport.nvsInst.nvs.com.PostImportPc
INFO: select setval((select PG_GET_SERIAL_SEQUENCE("sys_dic
Dec 01, 2023 6:30:58 AM dbImport.nvsInst.nvs.com.PostImportPc
INFO: select setval((select PG_GET_SERIAL_SEQUENCE("sys_spec
Dec 01, 2023 6:30:58 AM dbImport.nvsInst.nvs.com.PostImportPc
INFO: select setval((select PG_GET_SERIAL_SEQUENCE("sys_user
Dec 01, 2023 6:30:58 AM dbImport.nvsInst.nvs.com.PostImportPc
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Dec 01, 2023 6:30:58 AM dbImport.nvsInst.nvs.com.PostImportPc
INFO: select setval((select PG_GET_SERIAL_SEQUENCE("sysal_use
Dec 01, 2023 6:30:58 AM dbImport.nvsInst.nvs.com.PostImportPc
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Dec 01, 2023 6:30:58 AM dbImport.nvsInst.nvs.com.PostImportPc
INFO: select setval((select PG_GET_SERIAL_SEQUENCE("sys_jc_3
Dec 01, 2023 6:30:58 AM dbImport.nvsInst.nvs.com.PostImportPc
INFO: select setval((select PG_GET_SERIAL_SEQUENCE("sys_mods
Dec 01, 2023 6:30:58 AM dbImport.nvsInst.nvs.com.PostImportPc
INFO: select setval((select PG_GET_SERIAL_SEQUENCE("sysl_bkg
Dec 01, 2023 6:30:58 AM dbImport.nvsInst.nvs.com.PostImportPc
INFO: select setval((select PG_GET_SERIAL_SEQUENCE("sys_email
Dec 01, 2023 6:30:58 AM dbImport.nvsInst.nvs.com.PostImportPc
INFO: select setval((select PG_GET_SERIAL_SEQUENCE("sys_glob
Dec 01, 2023 6:30:58 AM dbImport.nvsInst.nvs.com.PostImportPc
INFO: executePostImportActions finish
Dec 01, 2023 6:30:58 AM dbImport.nvsInst.nvs.com.MassImporte
INFO: Post-installation tasks were completed
Dec 01, 2023 6:30:58 AM dbImport.nvsInst.nvs.com.MassImporte
INFO: ***** Installation has finished *****
Dec 01, 2023 6:31:03 AM installProcess.nvsInst.nvs.com.Instal
INFO: Installation is completed true

```

192.168.10.193 - Putty
192.168.10.193:1500/?cmd=X

https://192.168.10.193:1500/?cmd=start_insta

NVS Greenex installation

Status: 100%

- Clear structure.....ok
- Create folders.....ok
- Copy binary files.....ok
- Copy jdk 1.8 files.....ok
- Make binaries links.....ok
- Create start profile.....ok
- Create user, group and service.....ok
- Create transport folder if doesn't exist.....ok
- Initial load into database.....ok
- Installation is completed.....ok

Installation part 3 of 3: Import Technical Monitoring packages and additional libraries.

Download the distribution package tech-monitoring.zip and manually unzip it into any folder.
Follow please the readme.txt inside:

2) extract zip into a temp directory ,copy files , and set owner:

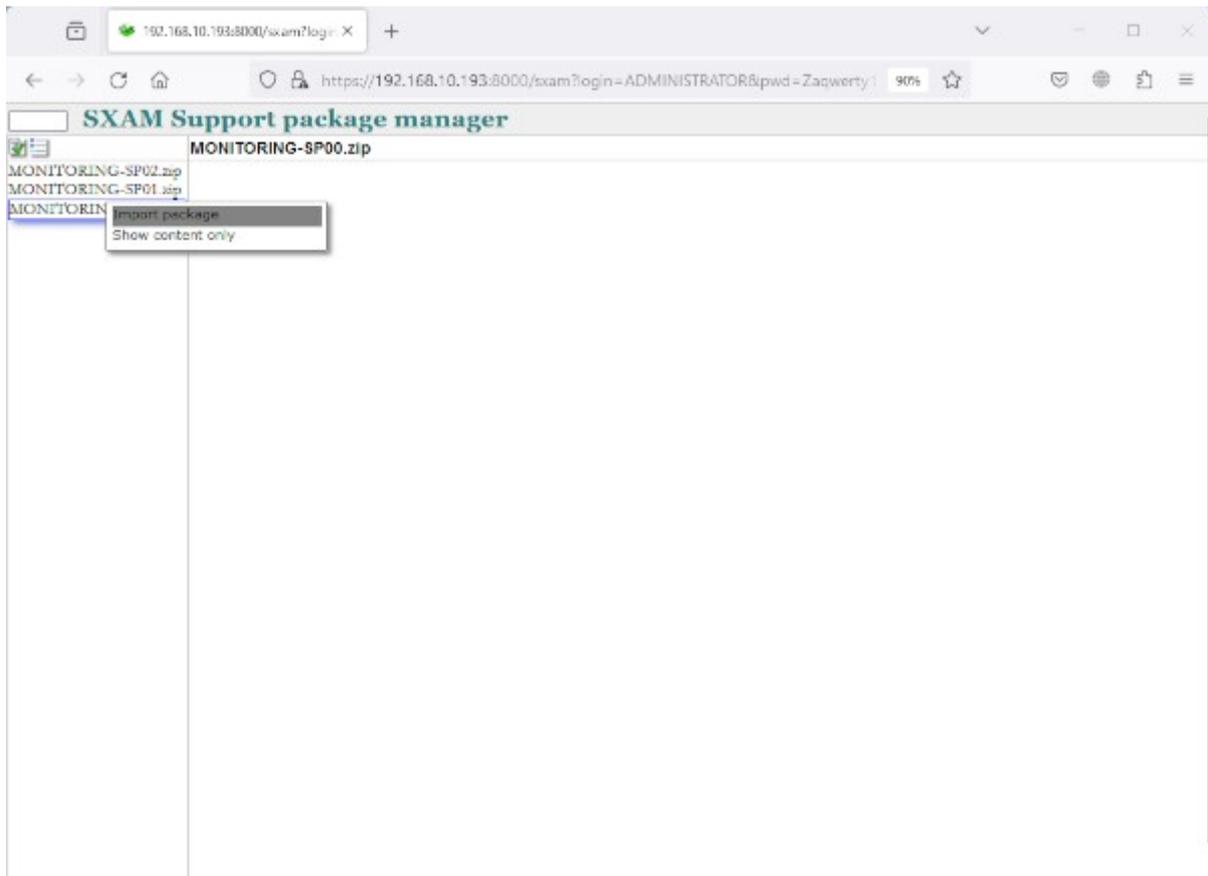
```
cp <package_dir>/lib/* /usr/nvs/DEV_D00/lib/  
chown devadm:greenex /usr/nvs/DEV_D00/lib/*
```

```
cp <package_dir>/*.zip /usr/nvs/trans/sxam/  
chown devadm:greenex /usr/nvs/trans/sxam/*
```

3) restart the system running to import .zip:

```
/usr/nvs/DEV_D00/restartService.sh
```

4) import packages MONITORING-SP*.zip one by one by using tcode SXAM.



5) restart system agian to start monitor daemons.

6) assign role GR_MONITORING to your user.

after these steps, you are ready to set up monitoring.

in case of re-import package MONITORING-SP02 :
execute SQL command to clear old text data

```
DELETE FROM sys_filestore WHERE guid='357db483-10c2-44c5-adf1-929c2bf6467d'
```

Now you have finished the installation of the fresh NVS Greenex system with the configuration of technical monitoring. Use please the built-in help for further information. Press the button with the question sign to get helpful info about how to work with system transactions.

What's next?

You have already installed the system with technical monitoring. In order to complete the main goal – you have to set up information about your landscape and schedule jobs with various types of checks: – free space on disks, available backups, CPU load and so on.

With SP21 correct appropriate parameters to adjust the outgoing email for sending notifications.

With transaction SRV1, DBS1,APP1 create records about the systems to be monitored.

With BJ01,BJ02,BJ03 – schedule regular job with necessary type of checks.

With AS12 – create e-mail recipients to receive letters.

Further information see, please in built-in help by transaction HELP or press button 

Links:

Demo system on the Internet:

<https://139.60.162.166:8000/bj01?login=ADMINISTRATOR&pwd=Zaqwerty13>

Demo video on the Youtube:

https://youtu.be/JMtnKmdNKco?list=PL8pOEs6IFqAlenrSbfu_9CmjllhWplu4v

Thank you for watching!