Installation guide of NVS Greenex technical monitoring system.

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Short introduction:

NVS Greenex consists of 3 parts:

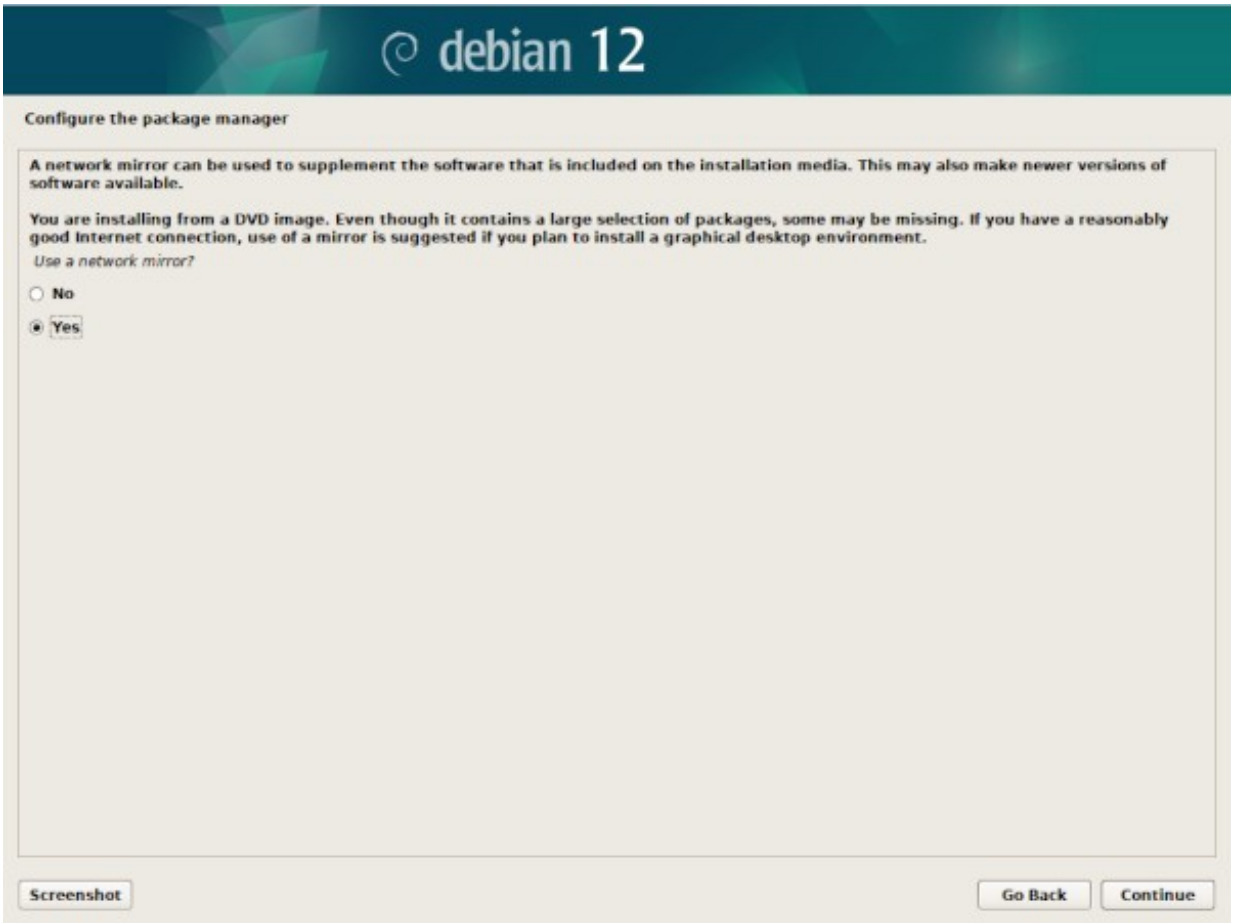
Part1: Database : Postgresql DB 14.5 and newer (default database type).
Part2: Base system built on Java 1.8 with a web-browser user interface.
Part3: Packages with various functions are to be imported into the base system.

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

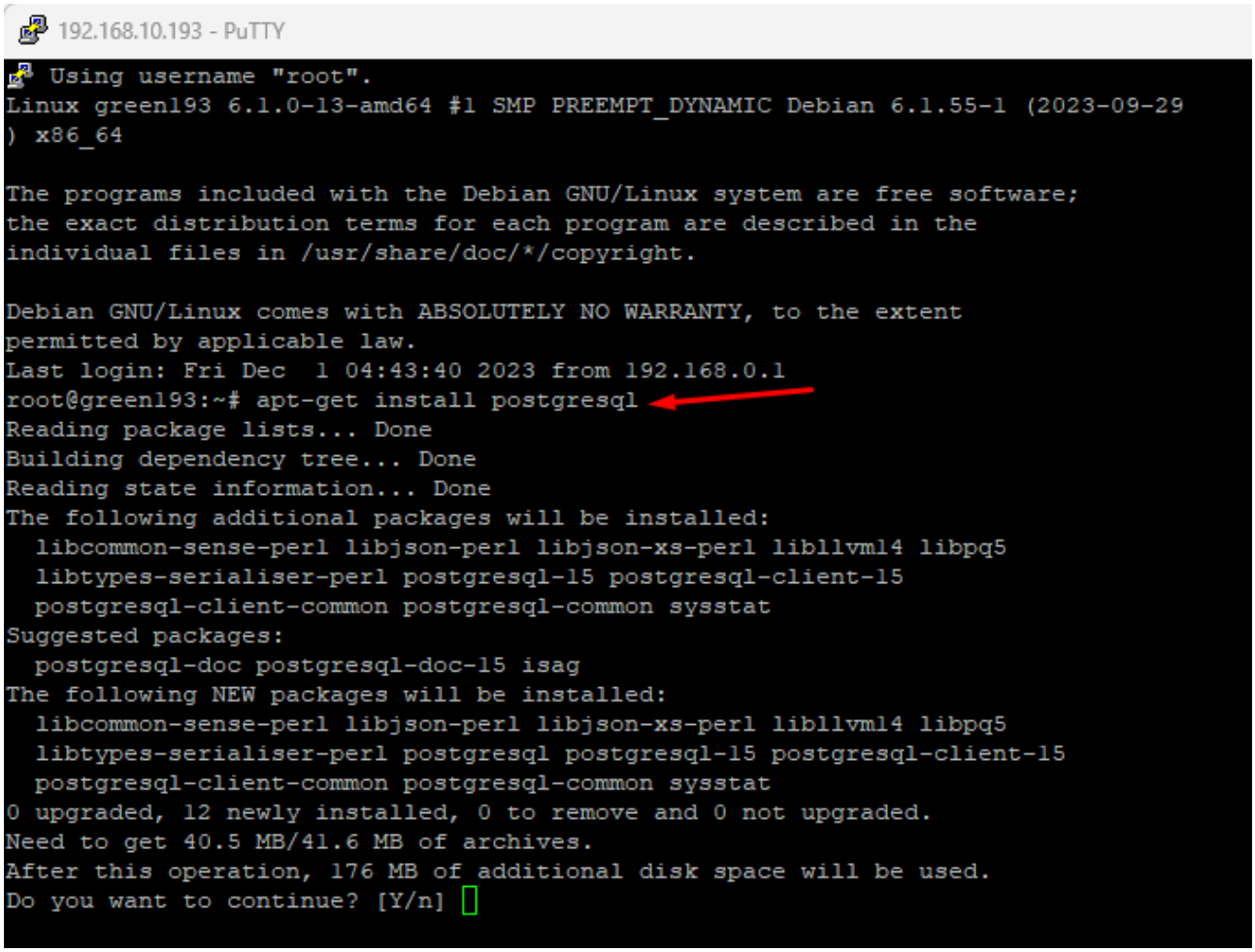
and uncommented root permissions in /etc/ssh/sshd_config (optionally)
PermitRootLogin yes

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.



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

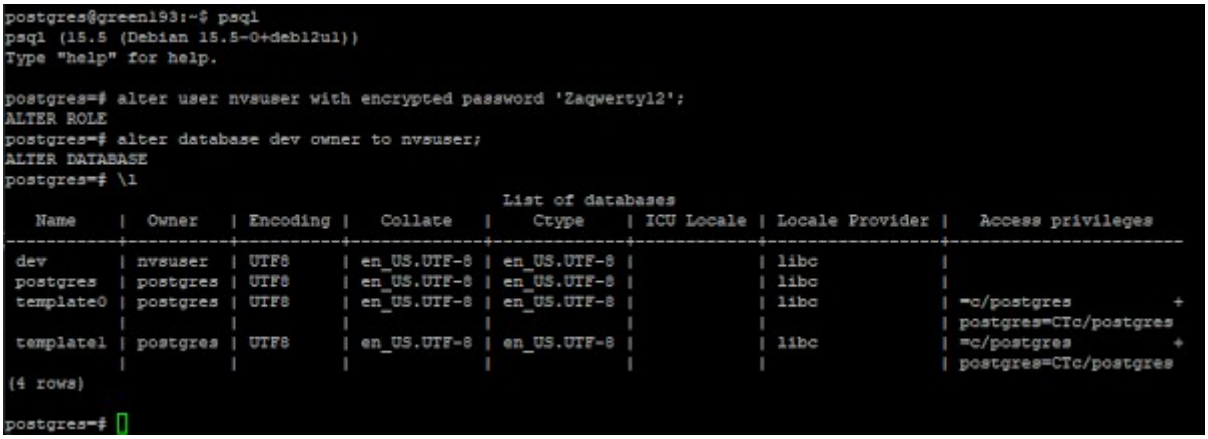
to allow connections from any IP (optionally) and
reboot
whole server or
systemctl restart postgresql

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.

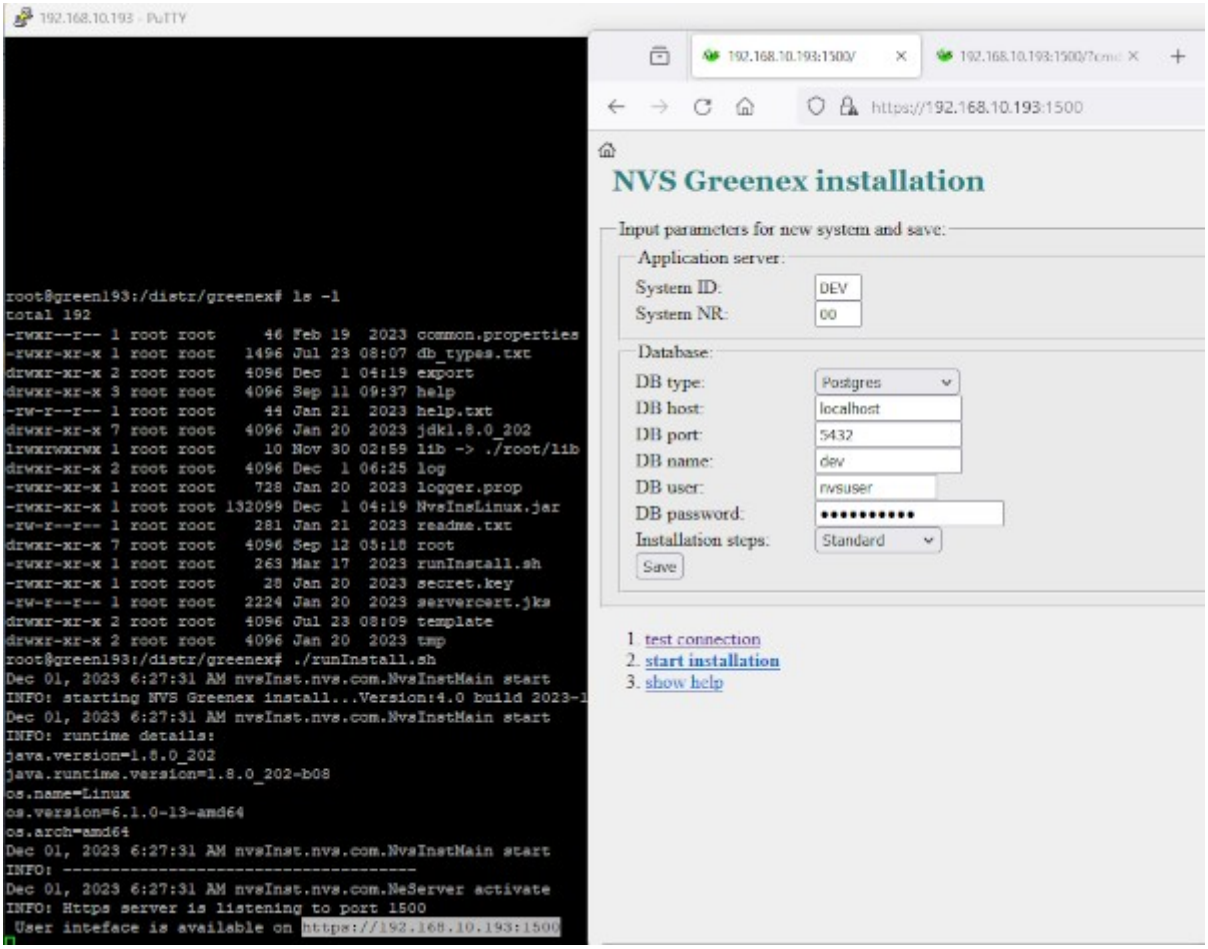


Let's move to part 2 of 3.

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



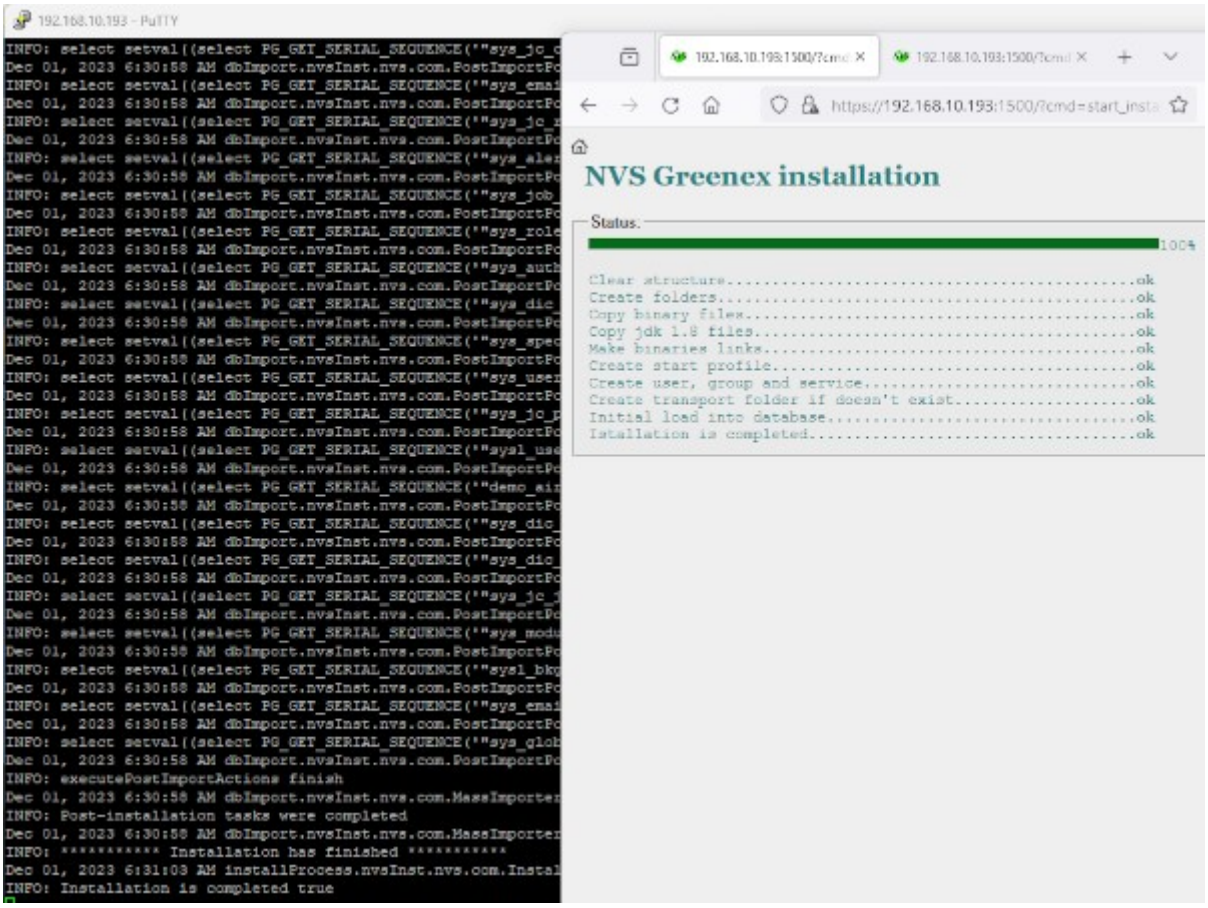
Then copy the URL from script and paste it in Firefox (recommended) . If you keep the default parameters, don't change anything , press "Save", test the connection and start installation

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.


192.168.10.193 - PuTTY
INFO: executePostImportActions finish
Dec 01, 2023 6:30:58 AM dbImport.nvsInst.nvs.com.MassImporter
INFO: Post-installation tasks were completed
Dec 01, 2023 6:30:58 AM dbImport.nvsInst.nvs.com.MassImporter
INFO: ********** Installation has finished **********
Dec 01, 2023 6:31:03 AM installProcess.nvsInst.nvs.com.Instal
INFO: Installation is completed true
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:

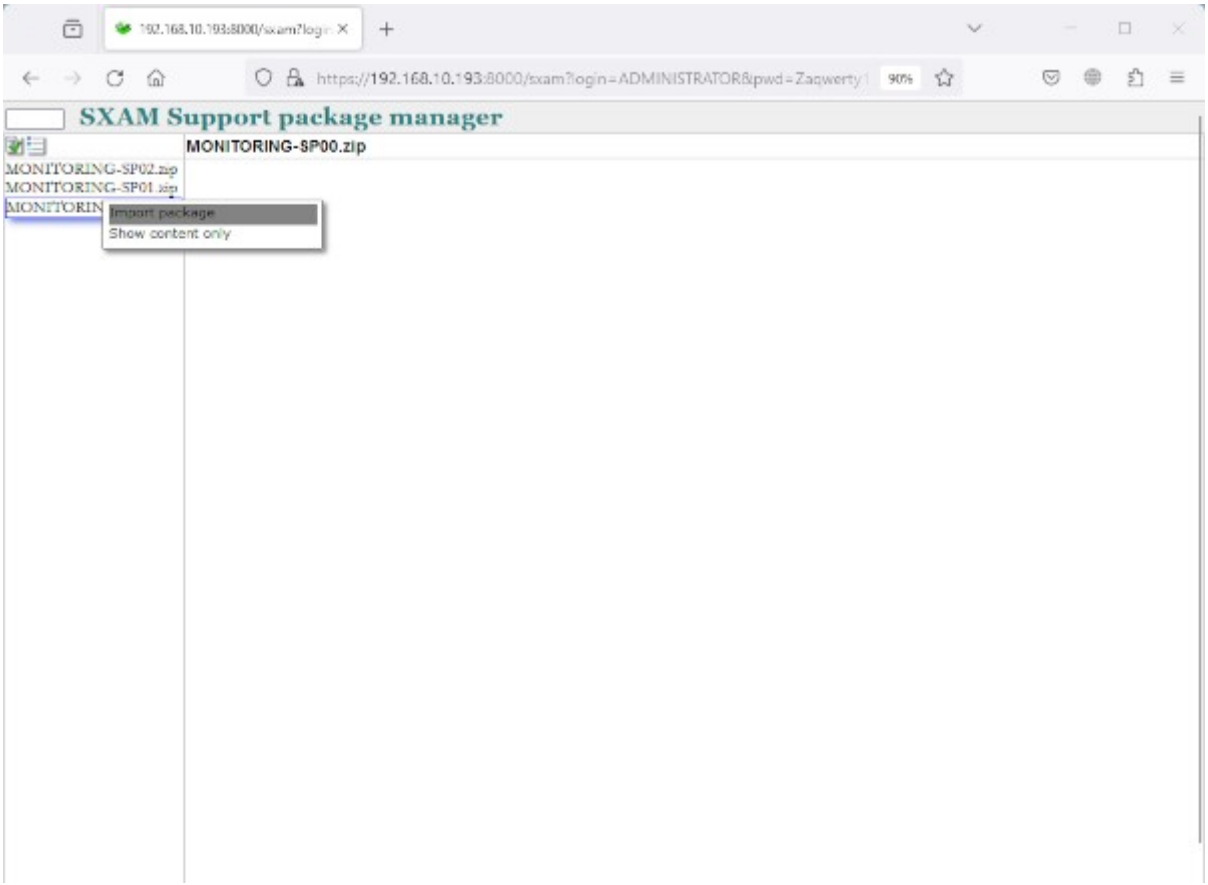
```
cp <package_dir>/lib/* /usr/nvs/DEV_D00/lib/
chown devadm:greenex /usr/nvs/DEV_D00/lib/*

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_9CmjIlhWplu4v

Thank you for watching!