NVS

SAP Co-pilot

Contents

Introduction.

Sometimes it is necessary to start/stop many systems simultaneously to update for example and launch them again when the downtime window is over.

NVS SAP co-pilot can help in this situation. All you need to prepare is provide the credentials <sid>adm for every system for control or (simpler) to add single user on OS and give him sudo rights.

Of course, you need correct describe your SAP landscape (ip, sid, sys_nr and etc.) to let NVS connect to every SAP system with sapcontrol command.

To refresh status of SAP systems NVS uses commands :

sapcontrol -nr <NR> -function **GetSystemInstanceList** or **GetProcessList**

To start/stop system, next commands are used

sapcontrol -nr <NR> -function **StartSystem ALL** or **Start**

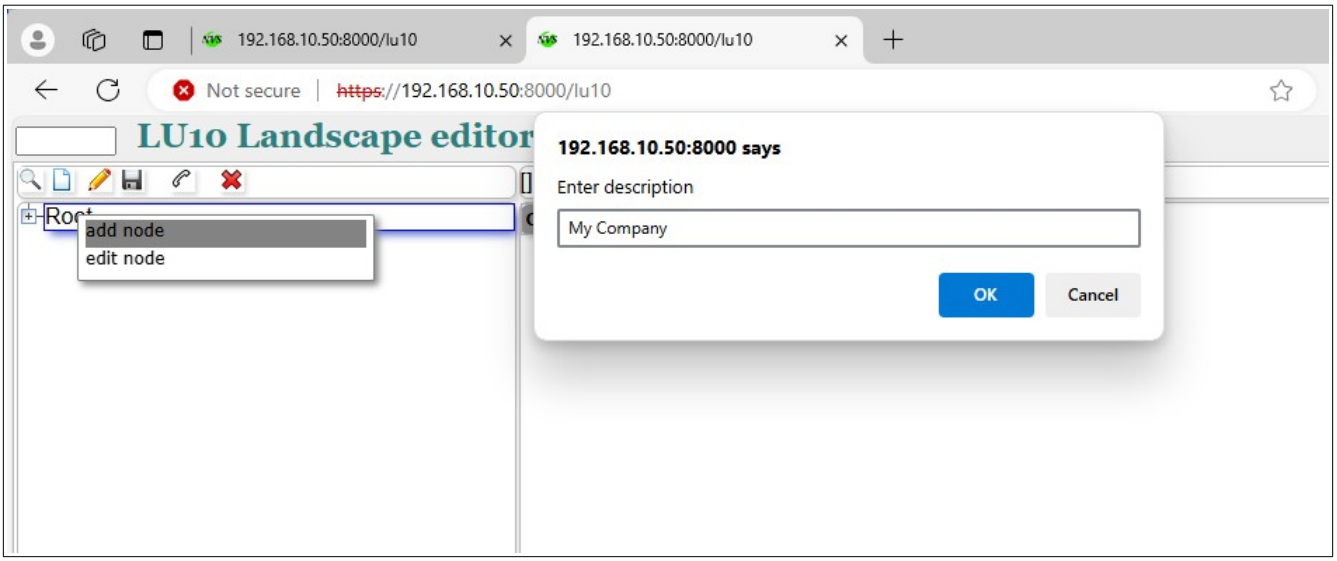
sapcontrol -nr <NR> -function **StopSystem ALL** or **Stop**

NVS co-pilot will correct start DB (SAP Hana) before APP and shutdown in reversed order.

You can as administrator start this procedure manually or by schedule.

Describe your SAP landscape

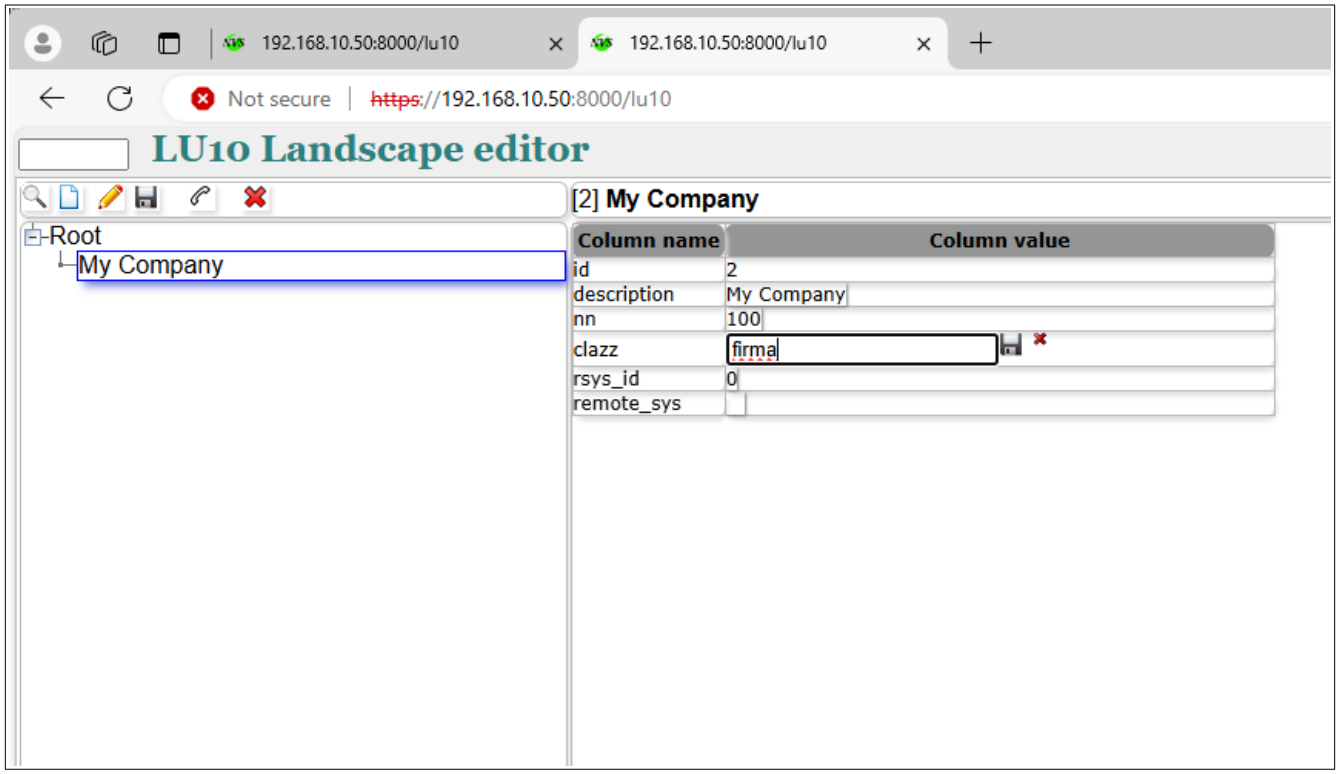
Use tcode **LU10 Landscape editor** to describe your SAP systems in hierarchy.



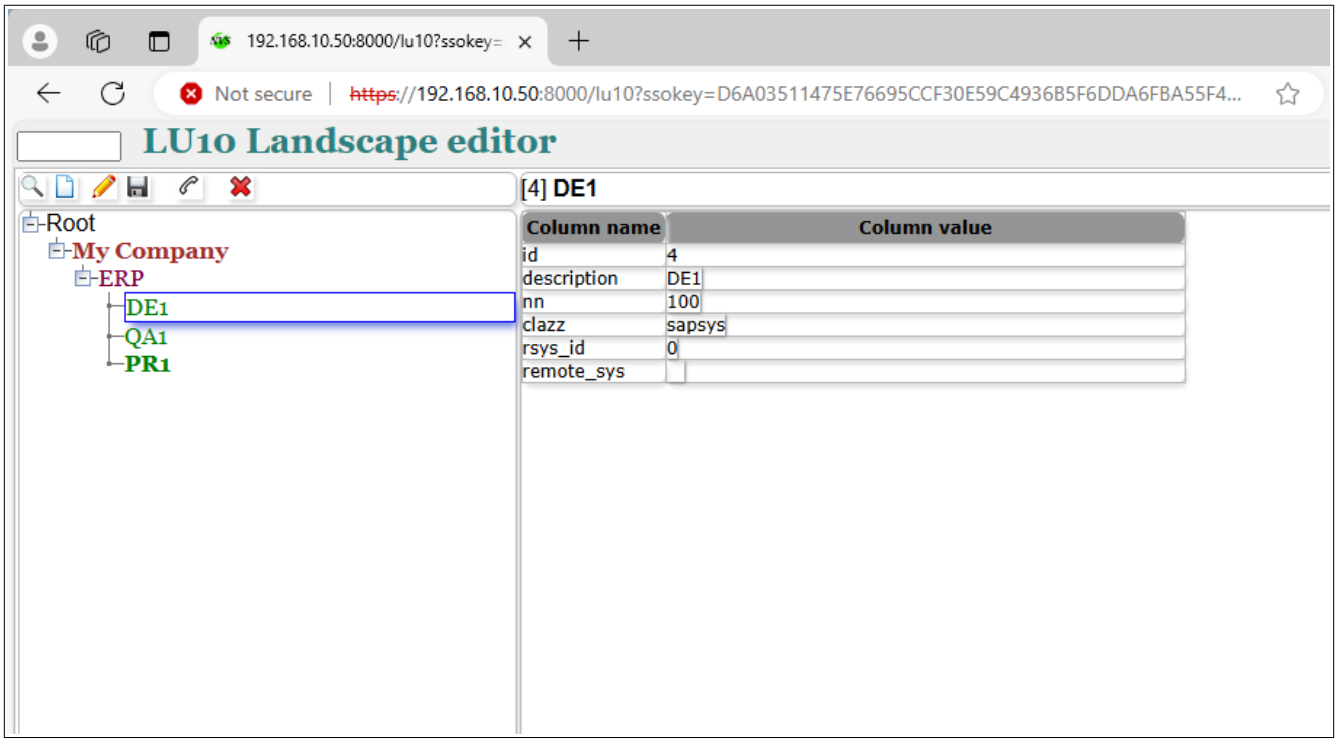
To decorate text in the tree, change column “clazz”. You can set

- firma
- project
- sapsys or sapsysprd

“firma” for company, “project” for 2-th level (ERP, BI, APO and etc.) and sapsys or sapsysprd for SAP system.

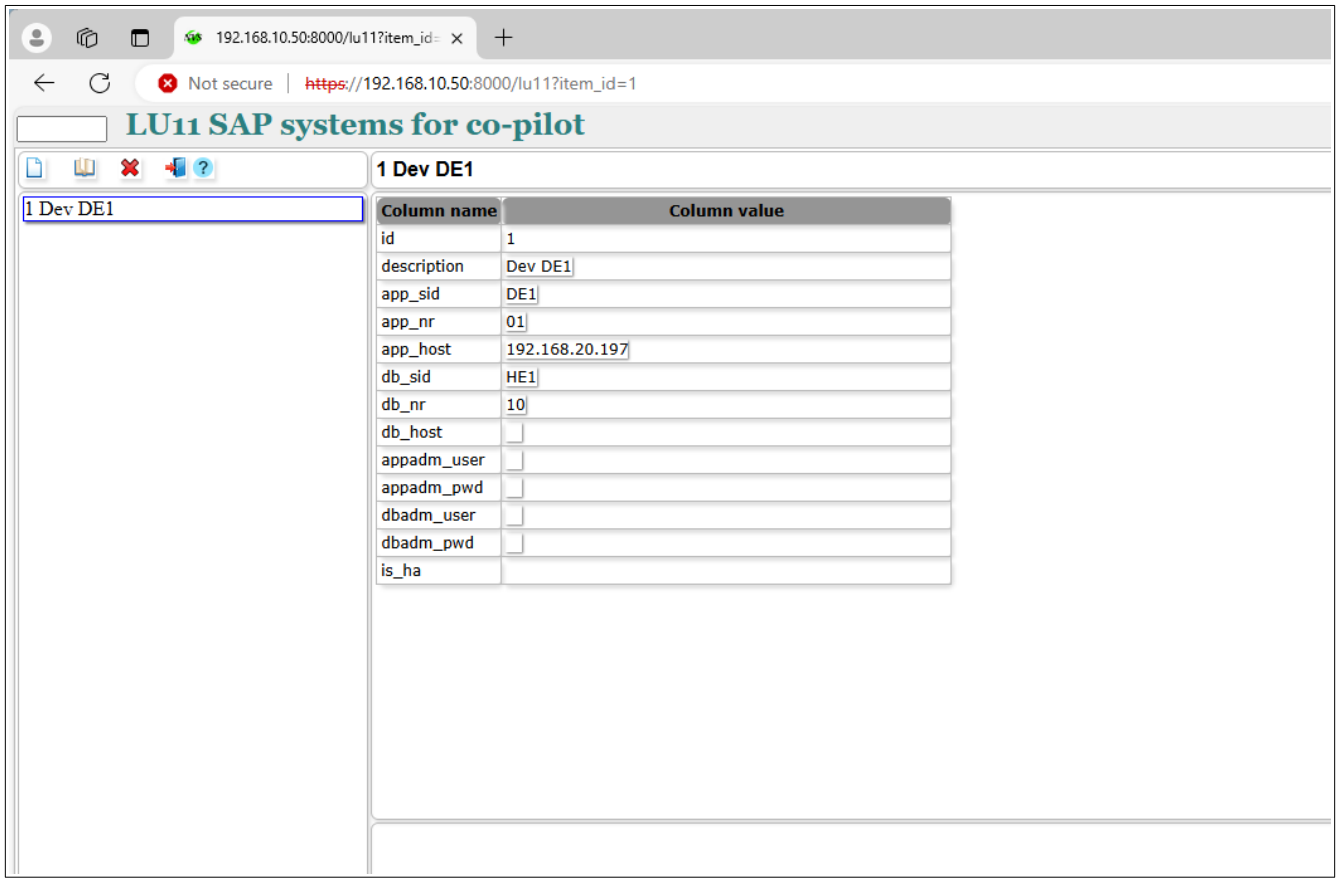


Finally, you will see something like this:



Fill list your SAP systems:

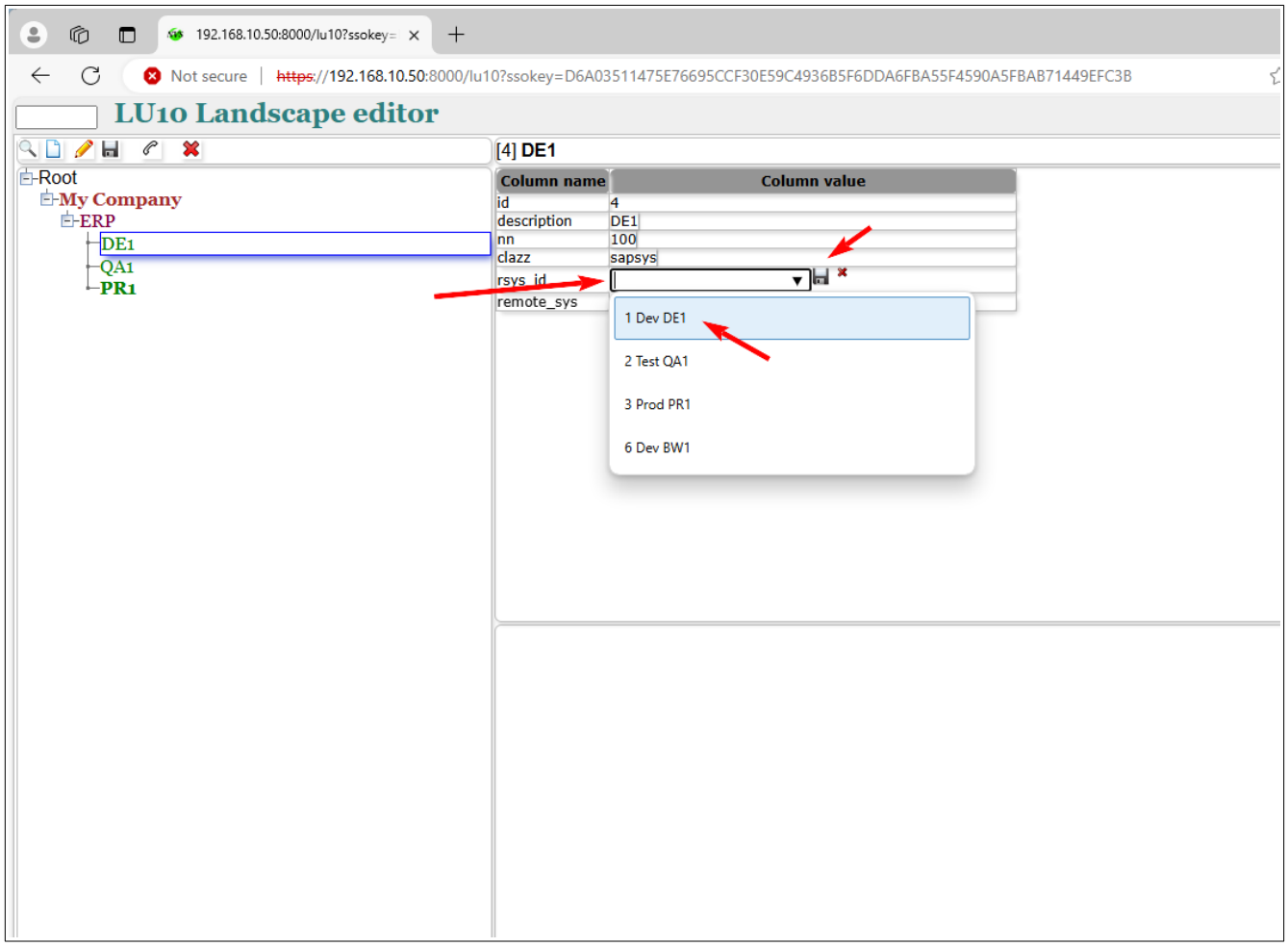
LU11 SAP systems for co-pilot – you can create every SAP system in this place. There is no need to input <sid>adm data if you are going to use single common user.



Hint: you can bulk insert data via SQL script into NVS database directly:

INSERT INTO slu_sapsys (id, description, app_sid, app_nr, app_host, db_sid, db_nr, db_host, is_ha, appadm_user, appadm_pwd, dbadm_user, dbadm_pwd) VALUES (1, 'Dev DE1', 'DE1', '01', '192.168.20.197', 'HE1', '10','','', '', '', '', '');

Connect (assign) hierarchy tree with SAP system list in LU10 to complete your landscape configuration:



Create OS linux user on every host, controlled by NVS.

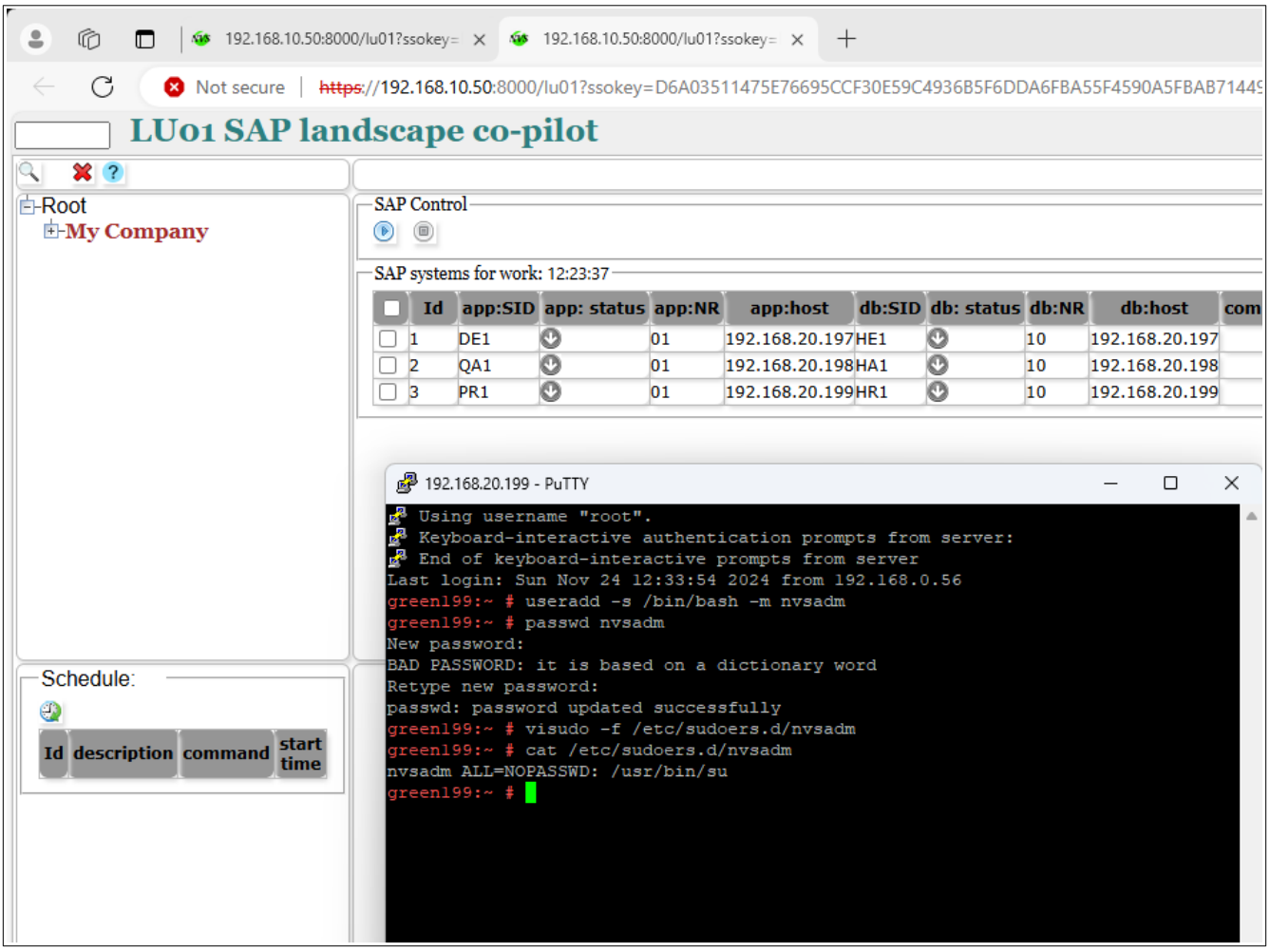
This is an example for user **nvsadm**

useradd -s /bin/bash -m nvsadm

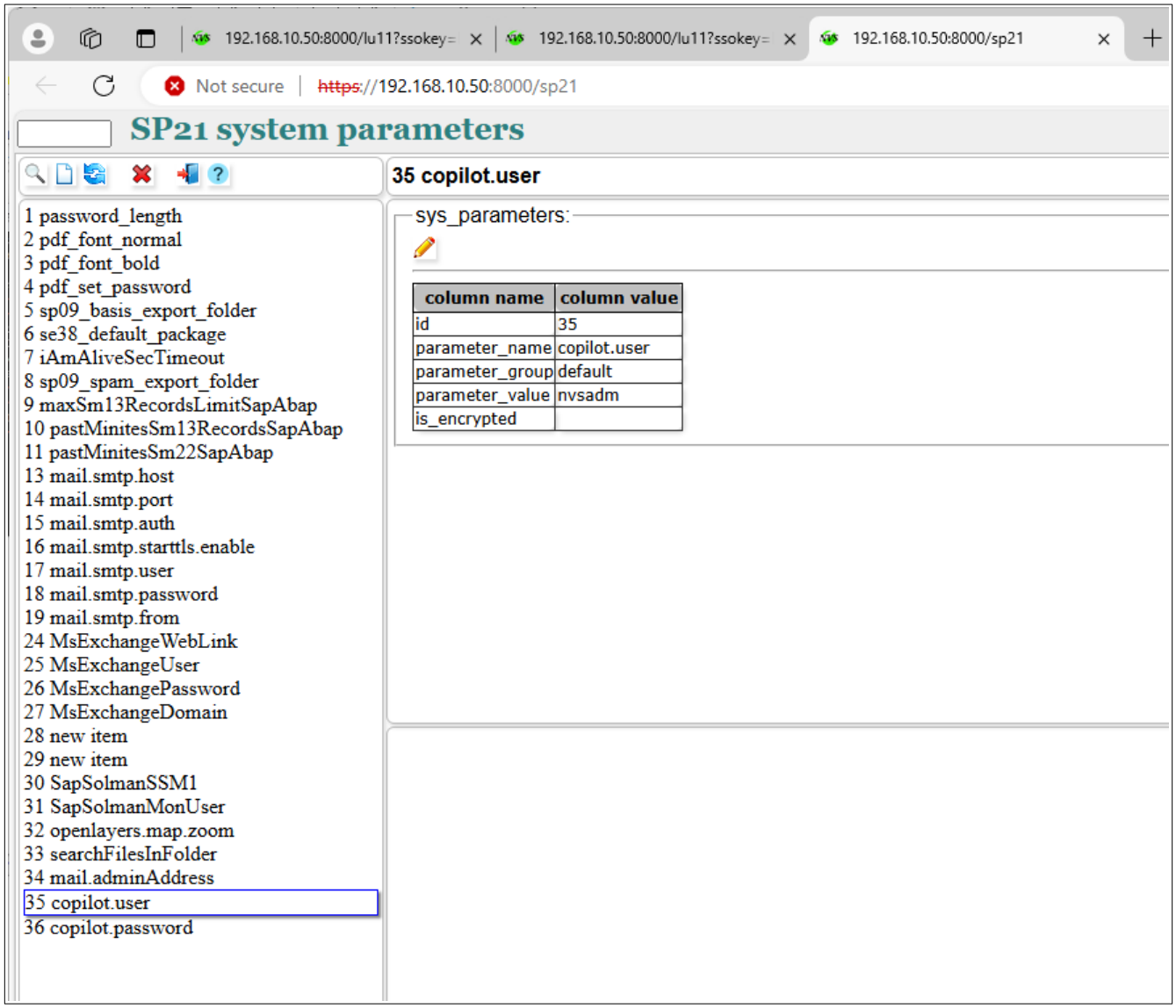
passwd nvsadm

visudo -f /etc/sudoers.d/nvsadm

nvsadm ALL=NOPASSWD: /usr/bin/su

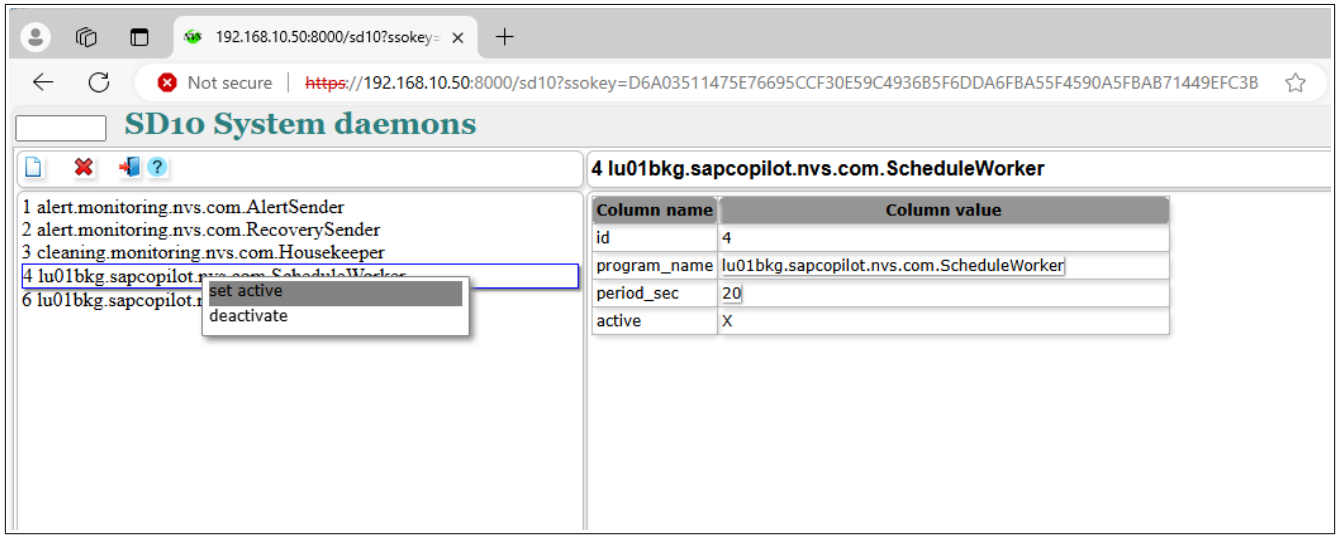


In tcode **SP21 system parameters,** add login / password for user and reload parameters



Check system daemons

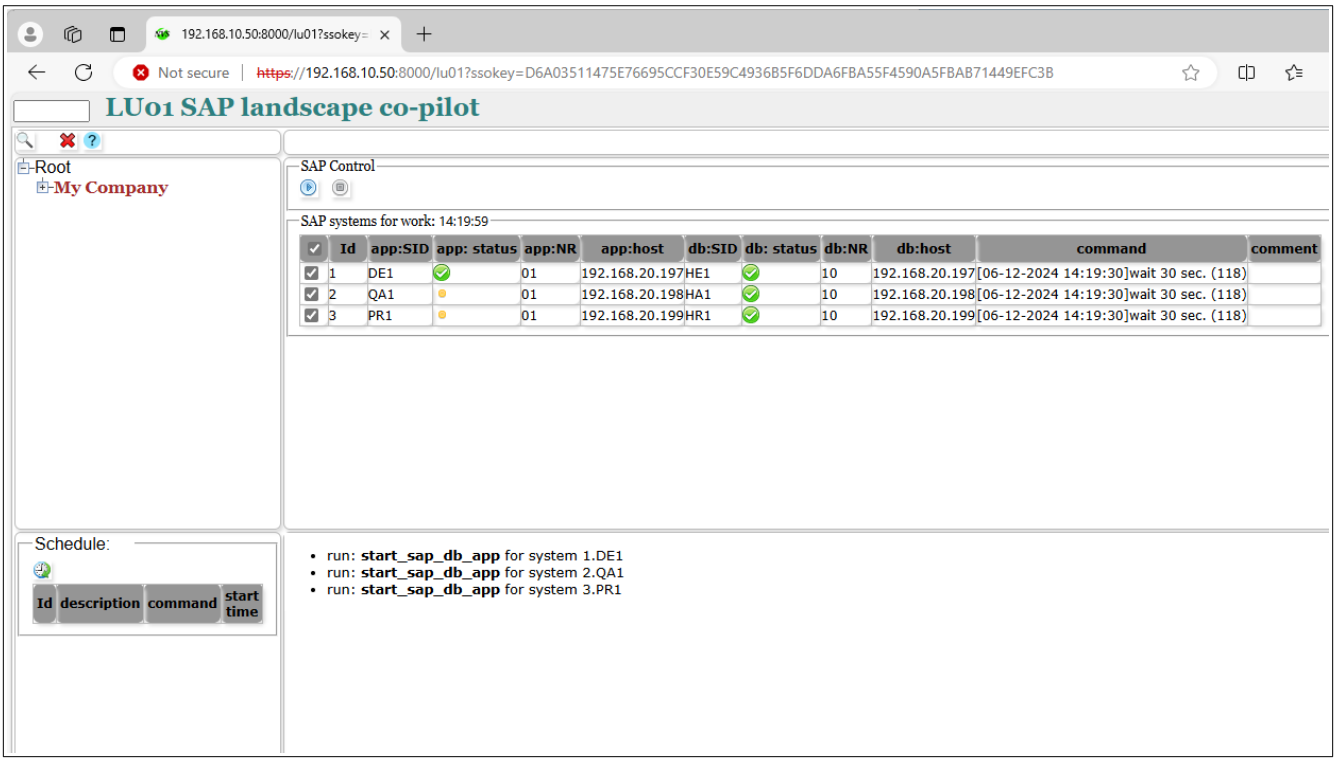
In tcode SD10 check system daemons lu01bkg.sapcopilot.nvs.com* and activate them if needed.



Test mass start/stop systems manually

In tcode LU01 SAP landscape co-pilot drag-and-drop SAP systems which you want to control from hierarchy tree to right part of the screen. Next, select them with checkbox and press blue button (start) or gray (stop) on SAP Control.

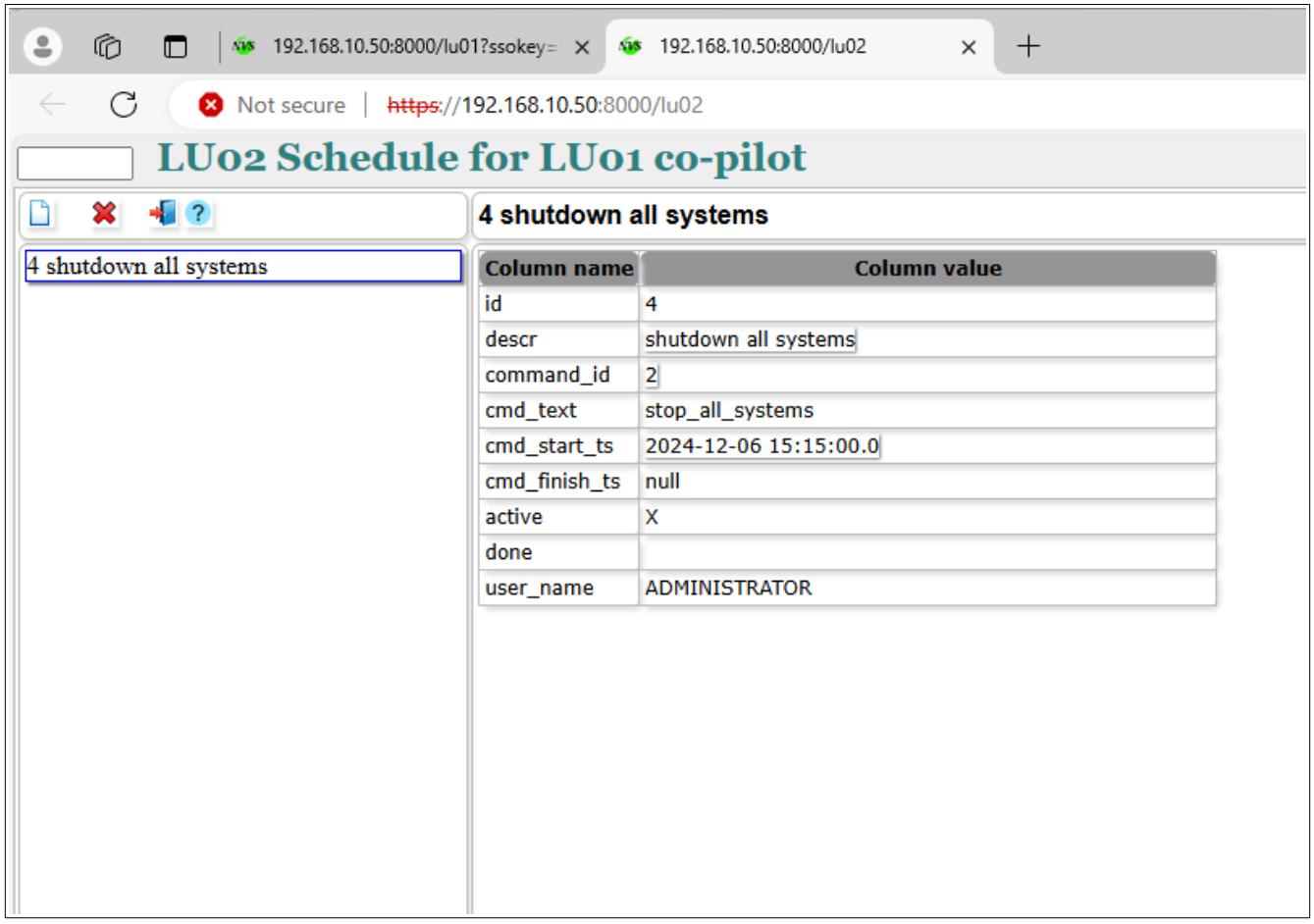
Warning: Be carefully with systems in Production Mode.



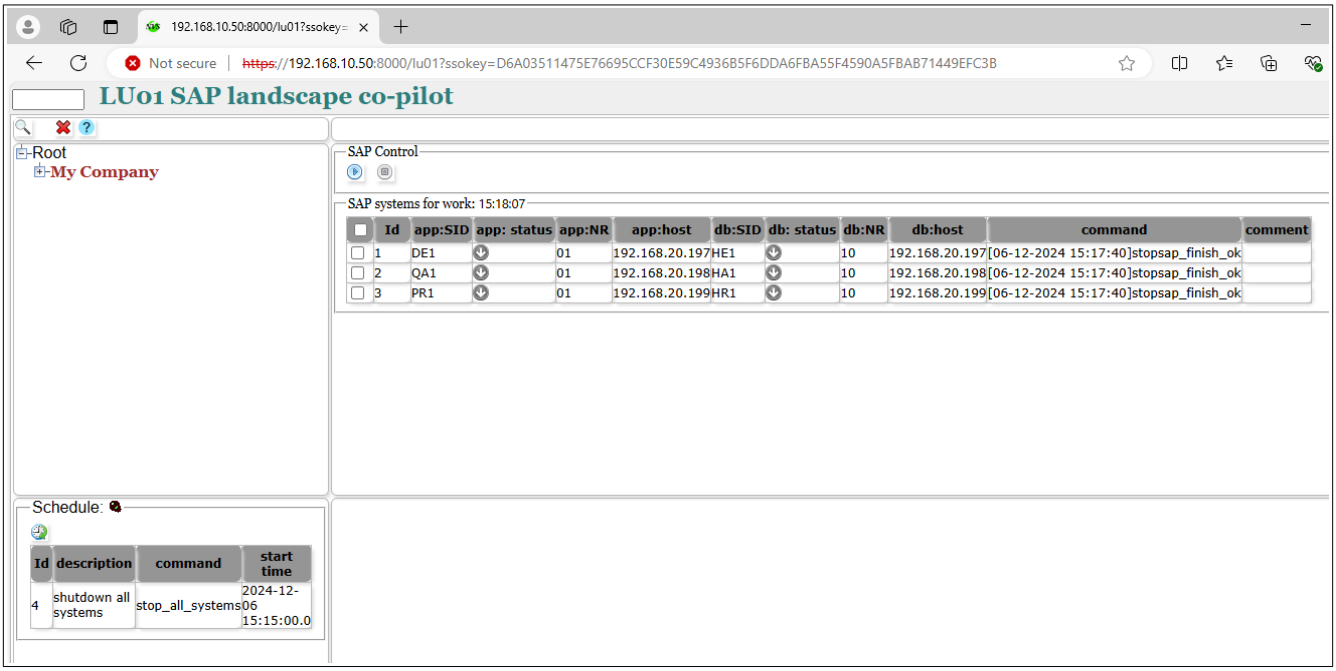
Test mass start/stop by schedule.

Press button with clock in left lower part of the screen LU01 or directly go to **LU02 Schedule for LU01 co-pilot** and add new command start_all_systems or stop_all_systems.

Set correct start time and via context menu set “active” flag. Notice that “done” flag must be empty.



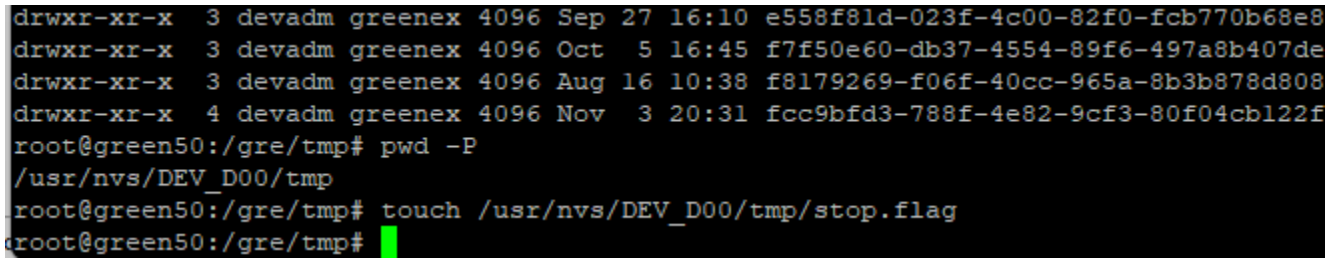
Ensure all systems were started (or stopped) in scheduled time.



Conclusion

NVS SAP co-pilot can help system administrator in many standard situations, but certainly doesn’t replace him/his if things went wrong. Spend time, please, for testing co-pilot before using it in production environment.

create /usr/nvs/DEV_D00/tmp/stop.flag - if something goes wrong and NVS will freeze



Thank you!