



SUSE Manager: Migration from 2.1 to 3.0

Migration from 2.1 to 3.0 & more

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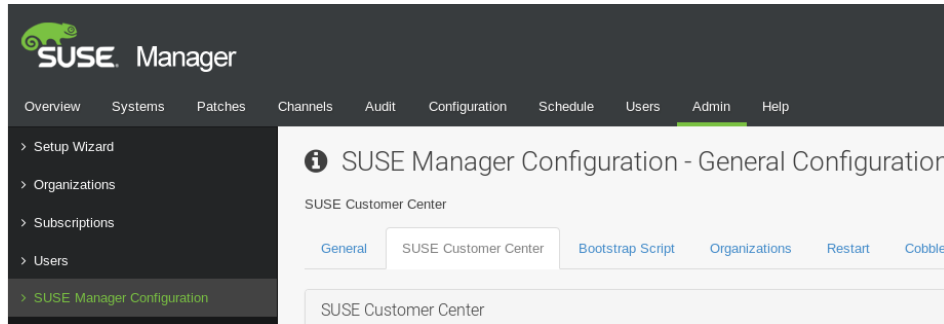
Agenda

- Overview on steps for migration from 2.1 to 3.0
- What is new in SUSE Manager 3.0 (SLES 12 SP1)
- Setting up new SUSE Manager 3.0
- Live-demo performing DB Backup
- Best practices on scheduling downtime & migration time needed
- Troubleshooting issues during migration
- Q&A

Overview - migration steps from 2.1 to 3.0 (1/2)

- **Prerequisites on the source machine**

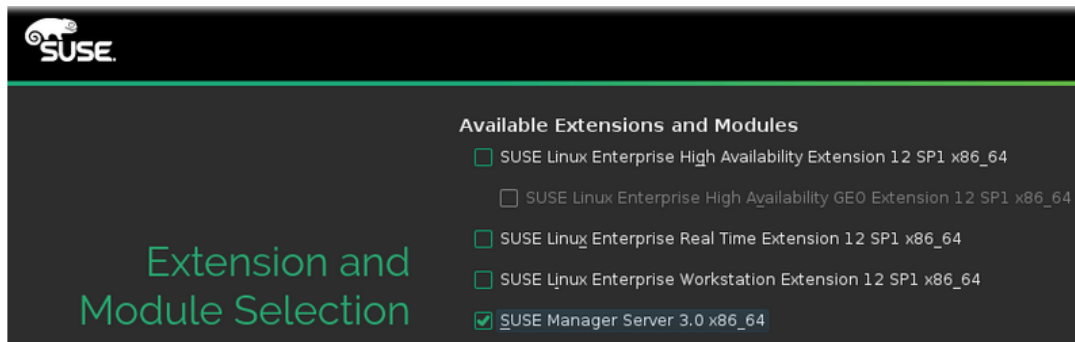
- Fully patched source machine (SUSE Manager 2.1)
 - [Updating SUSE Manager 2.1](#)
- PostgreSQL DB in place (otherwise, migrate DB first)
 - `/usr/lib/susemanager/bin/susemanager-oracle2postgres.sh`
- SCC connection needed (otherwise, migrate to SCC the 2.1 system first)



- At least 30% of the disk usage of `/var/lib/pgsql/data` in `/var/spacwalk/tmp` for the temporary DB dump
 - https://wiki.microfocus.com/index.php?title=SUSE_Manager/Migration_23

Overview – migration steps from 2.1 to 3.0 (2/2)

- **Perform a new SLES 12 SP1 installation for the target machine**
 - SUSE Manager 3.0 extension with “migration” option.
 - Installing SUSE Manager 3.0 Extension



- **Run the migration script**
 - “/usr/lib/susemanager/bin/mgr-setup -m”
- **Mount external storage if needed**
 - /var/spacwalk/packages or /srv/www/htdocs/pub (comment related rsync line in the script)

What is new in SUSE Manager 3.0 (SLES12 SP1)

- Spacewalk 2.4
- New documentation
 - <https://www.suse.com/documentation/suse-manager-3>
- Subscription Matching
- Topology awareness
- Configuration management
- Salt integration
- Package downloads changed
- Monitoring dropped → Icinga easy to implement
- Extension for SLES 12 SP1 (not an appliance any more)



Setting up new SUSE Manager 3.0

- Install SLES 12 SP1 with the SUSE Manager 3.0 extension
 - Adding SUSE Manager 3.0 Extension
- `yast2 susemanager_setup`
- Select “Migrate a SUSE Manager compatible server”
- Enter the proper values for:
 - Hostname of the source SUSE Manager Server
 - Domain name
 - DB credentials
 - Check that the IP is correct
- Enter DB parameters
 - Recommended not to use new ones
 - SCC credentials
 - Migration still needs to be manually run



Live-demo performing DB Backup

```
Terminal - root@vm-calzone:~
YaST2 - susemanager_setup @ vm-calzone

Migration from previous SUSE Manager to new SUSE Manager

Hostname of source SUSE Manager Server
_____
Domain name
hwlab.suse.de
Source SUSE Manager Database User Name
susemanager
Source SUSE Manager Database Password
_____
Repeat Password
_____
Source SUSE Manager Database Name
susemanager

[Help] [Back] [Abort] [Next]
F1 Help F8 Back F9 Abort F10 Next
```

Best practices on scheduling downtime & migration time needed

- **Speed up the migration by running “mgr - setup - r”**
 - This will copy channels, packages, autoinstall images...
 - No downtime needed for this
 - When the migration takes places, only a “delta” needs to be copied
- **The time for dumping the DB cannot be shortened (only full dumps possible)**
 - SUSE Manager services will be stopped during this task
 - Expect some hours' downtime for big installations
- **Run migration: “/usr/lib/susemanager/bin/mgr - setup - m”**

Troubleshooting issues during migration

- Check disk space
- Check the output of the following command (no output):
 - `ssh root@suma2.1_machine "su -s /bin/bash - postgres -c exit"`
- `/var/spacewalk` & `/var/lib/pgsql` on separate (XFS) filesystems
 - Remove subvolumes in `/etc/fstab` in that case!
- To try again:
 - `rm /root/.MANAGER_SETUP_COMPLETE`
 - `systemctl stop postgresql.service && rm /var/lib/pgsql/data`
 - Set the host name correctly (old SUSE Manager server)
 - Correct `/etc/hosts`
 - Check that correct DB name is set in `/etc/setup_env.sh` (`MANAGER_DB_NAME`)
- Reboot

Q&A



Additional Sessions to Attend

Getting Started with Salt (TUT91103)

Today Nov 10th, 3:15-4:15pm

Gain Control of Your Linux World – SuSE Manager (BOV91777)

Today Nov 10th, 4:30-5:30pm

SuSE Manager in the Public Cloud – Azure and AWS (TUT91800)

Tomorrow Nov 11th, 9:00-10:00am



We adapt. You succeed.