

# OBS introductory course for SUSE people



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Maintenance/L3-Packaging

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# Introduction

## Explanation of few shortcuts used in the slides

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- `isc` = alias for `osc -A IBS`
- `ibs` = `build.suse.de`
- `obs` = `build.opensuse.org`
- `SR#` = submit request in any of the above instances
- `bnc` = bug on `bugzilla.novell.com`

# What is buildservice

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- provider for reproducible build results
- VCS for our packages
- collaboration tools using SR#s

# How do I communicate with the tool

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- Using web interface on the ibs or obs locations
- Using commandline interface called osc (osc is provided on most distributions as package too)

# CLI Configuration tips

# Configuration suggestions

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`$HOME/.osrcrc`

```
build-jobs = 16 # value for buildjobs  
extra-pkgs = vim gdb strace mc less unzip # some tools  
no_verify = 1 # local verification only
```

## Configuration suggestions - cont.

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```
[https://api.suse.de]
user = bugzillausername
pass = bugzillapw
email = guessyourself
aliases = ibs
```

```
[https://api.opensuse.org]
user = bugzillausername
pass = bugzillapw
email = guessyourself
aliases = obs
```



## Configuration suggestions - cont.

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`$HOME/.bashrc`

As few commands will be called quite often it is easier to alias them.

```
export COMP_WORDBREAKS=${COMP_WORDBREAKS/./}
alias isc="osc -A ibs"
alias oscb="osc build --ccache --cpio-bulk-download --download-api-only"
alias oscsd="osc service localrun download_files"
```

# Basic CLI usage

## Sample workload

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```
$ osc co Archiving/rsnapshot
$ cd Archiving/rsnapshot
$ vi rsnapshot.spec # hackyhacky
$ osc vc -m "Fix something. Resolves bnc#1234"
$ oscb
$ osc ci
```

Collaboration/maintenance

## openSUSE Factory

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`https:  
//progress.opensuse.org/workflow/factory-proposal.html`

## openSUSE Factory cont.

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```
$ osc develproject openSUSE:Factory rsnapshot
Archiving
$ osc branch Archiving rsnapshot
A working copy of the branched package can be checked out with:
osc co home:scarabeus_iv:branches:Archiving/rsnapshot
$ osc co home:scarabeus_iv:branches:Archiving/rsnapshot
$ cd home:scarabeus_iv:branches:Archiving/rsnapshot
$ vi rsnapshot.spec # hackyhacky
$ osc build
$ osc vc -m "Fix something. Wrt bnc#2345"
$ oscb
$ osc ci
$ osc sr -m "Finally got around to fix bnc#2345 so enjoy"
```

## openSUSE Releases

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- Forwarding fixes from devel project to released distributions are always up to maintainer (your) decision
- You should forward only smaller things (ie. no huge version updates that could break too much)
- One should be MORE careful when creating the maint. update than when submitting to Factory itself
- [https://en.opensuse.org/openSUSE:Build\\_Service\\_Concept\\_Maintenance](https://en.opensuse.org/openSUSE:Build_Service_Concept_Maintenance)

# openSUSE Releases cont.

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```
$ osc maintained rsnapshot
openSUSE:12.3:Update/rsnapshot
openSUSE:13.1:Update/rsnapshot
$ osc mbranch rsnapshot
A working copy of the maintenance branch can be checked out with:
osc co home:scarabeus_iv:branches:OBS_Maintained:rsnapshot
$ cd home:scarabeus_iv:branches:OBS_Maintained:rsnapshot
$ ls
rsnapshot.openSUSE_12.3_Update/  rsnapshot.openSUSE_13.1_Update/
$ vi rsnapshot.openSUSE_12.3_Update/rsnapshot.spec
$ vi rsnapshot.openSUSE_13.1_Update/rsnapshot.spec
% for each folder now
$ oscb
$ osc vc -m "I did fancy maintenance changes, I am great"
$ osc ci
% back one level
$ osc mr -m "Maintenance update wrt bnc#something"
created request id 1234
```



# SLE

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- For SLE all updates are requested by Maintenance DPT and you receive notification with deadline
- All of the submissions are to adhere to Maintenance SLA (ask your boss to provide it to you)
- If you do something wrong people from QAM will report bugs on you and frown :)
- You always receive list of bnc#s you are supposed to fix
- SLE does not use new maintenance model as openSUSE yet

## SLE cont.

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```
$ isc maintained vsftpd
SUSE:SLE-10-SP3:Update:Test/vsftpd
SUSE:SLE-11:Update:Test/vsftpd
$ isc mbranch vsftpd
$ isc co home:scarabeus_iv:branches:OBS_Maintained:vsftpd
$ cd home:scarabeus_iv:branches:OBS_Maintained:vsftpd
$ ls
vsftpd.SUSE_SLE-10-SP3_Update_Test/  vsftpd.SUSE_SLE-11_Update_Test/
% for each folder
$ vi vsftpd.spec
$ oscb
$ osc ci
$ osc sr <RESPECTIVE_PROJECT>/<EXACT_PKG_NAME> -> osc sr SUSE:SLE-10-SP3:Update:Test/vsftpd
```

Webinterface

## Practical example

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Lets go over to `http://build.opensuse.org`

Endnote

## Further reading/Contact points

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- [https://en.opensuse.org/openSUSE:Packaging\\_guidelines](https://en.opensuse.org/openSUSE:Packaging_guidelines)
- [opensuse-packaging@opensuse.org](mailto:opensuse-packaging@opensuse.org)
- [pack@suse.cz](mailto:pack@suse.cz)
- [#opensuse-factory@freenode.net](https://freenode.net/#opensuse-factory)
- [#balikari@irc.suse.cz](https://irc.suse.cz/#balikari)

## Thanks/Questions

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Thank you for your attention.  
Are there any questions?