## Make releases

### Fissile Compile on Z

1. It is a go application.
2. go get -d github.com/SUSE/fissile
3. git checkout b06a43d - <https://github.com/SUSE/scf/blob/master/bin/common/versions.sh>
4. make tools
5. make docker-deps
6. Remove darwin in make/build file.
7. make build
8. rm -rf vendor/golang.org/x/sys/
9. go build .
10. Check fissile in the build folder

OR

1. rm -rf vendor/golang.org/x/sys/
2. Remove OSES nunchi darwin in make/build file.
3. make all
4. Check fissile in the build folder

### Stampy Compile on Z

1. It is a go application.
2. Run go\_install.sh which installs the go and sets necessary environment variables.
   1. tar -C /usr/local -xzf go1.10.3.linux-s390x.tar.gz
   2. export PATH=$PATH:/usr/local/go/bin
   3. export GOPATH=$HOME/go
   4. export PATH=$PATH:$GOPATH/bin
   5. go
3. make all
4. Check the build folder for stampy binary.

### Building bosh-cli docker image for Z

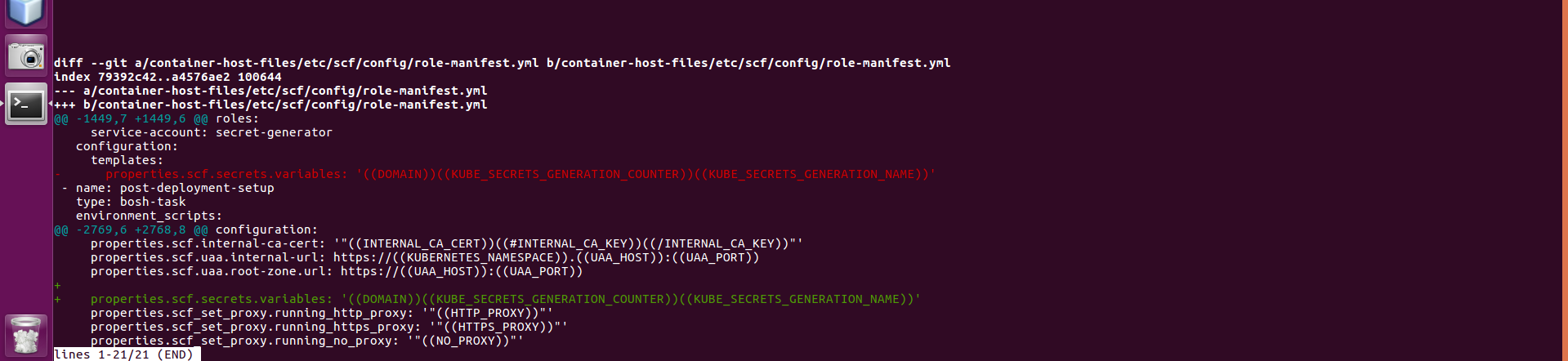
1. Building bosh-cli on Z
   1. Go to bosh-cli repo
   2. go get github.com/cloudfoundry/bosh-utils/errors
   3. go build .
   4. Check the bosh-cli binary in the repo directory.
2. Replace bosh-cli binary in docker file of cloud-foundry repo given by Vlad.
3. Build the docker image using the normal docker build command.

Make Releases Command hacks on SCF

1. Checkout master
2. Comment out installation of fissile and stampy in bin/dev/install\_tools.sh
3. Make stampy and fissile folders into PATH.
4. Change docker image name in create\_releases.sh file with <https://hub.docker.com/r/rohitsakala/bosh-cli/>
5. Change also in src/uaa-fissile-release/bin/create-release.sh with <https://hub.docker.com/r/rohitsakala/bosh-cli/>
6. Run source scf\_pre.sh.
   1. export PATH=/data/:$PATH
7. Replace the entire Java installation procedure in [0] into sudo apt-get -y install openjdk-8-jdk.

[0] <https://github.com/cloudfoundry/uaa-release/blob/5b7e7a307a1c74d87819904c7f0bc942df958a37/packages/uaa/pre_packaging#L19>

## Make Compile

1. Change as specified in this screenshot
   1. 
2. Tag your docker image docker pull rohitsakala/opensuse\_stemcell\_z\_fissile to $FISSILE\_STEMCELL one.
3. Replace windows with linux and comment out .exe file copy (Only one) <https://github.com/cloudfoundry/diego-release/blob/ad85f06a22a01eaa68524002ef96257d404ef812/packages/healthcheck/packaging>
4. ^ Same as for <https://github.com/cloudfoundry/diego-release/blob/ad85f06a22a01eaa68524002ef96257d404ef812/packages/diego-sshd/packaging>
5. Change all amd64 to s390x in <https://github.com/SUSE/cf-usb/blob/c2c0fe0b2a32b6b854cef1713c45232c7db7ba60/cf-usb-release/packages/cf-usb/packaging> and <https://github.com/SUSE/cf-usb/blob/develop/make/build>
6. Follow this patch <https://launchpadlibrarian.net/126068996/0001-Fix-fuse-build-on-Aarch-64.patch>
7. Remove consul rolef from role.manifest and related variables to it.
8. Replace all -isystem with -I in percona-xtrabackup in cf-mysql release.
9. Add groupadd tty in garden-runc util linux packaging
10. <https://github.com/widora/openwrt_widora/issues/12> in pkg-config
11. Replace xfsprog to 4.9.0 in xfsprog in garden-runc

### Releases Compilation Status

1. diego (2.8.0+dev.1)
   1. Golang - Success
   2. buildpack\_app\_lifecycle - worker aborted
   3. Healthcheck - Success
   4. Locket - Success
   5. Pid\_utils - Success
   6. Proxy - Success
   7. Rep - Success
   8. Route\_emitter - Success
   9. Ssh\_proxy - Success
   10. Auctioneer - Success
   11. bbs - Success
   12. certsplitter - Success
   13. Cfdot - Success
   14. diego-sshd - Success
   15. docker\_app\_lifecycle - Success
   16. File\_server - Success
   17. Rep - Success
   18. windows\_app\_lifecycle - Success
2. capi (1.58.0+dev.1)
   1. Ruby2.4 - Success
   2. Capi\_utils - Success
   3. Golang1.8 - Success
   4. Libpq - Success
   5. Mariadb\_connector\_c - Success
   6. Nginx - Success
   7. nginx\_newrelic\_plugin - Success
   8. Cc\_uploader
      1. /packaging: line 7: /var/vcap/packages/golang1.8/bin/go: cannot execute binary file: Exec format error Error Code 126
   9. Tps - Success
   10. Nginx\_webdav - Success
   11. Cloud\_controller\_ng
       1. compilation-cloud\_controller\_ng > third\_party/boringssl/include/openssl/bn.h:924:3: error: unknown type name
       2. compilation-cloud\_controller\_ng > 'BN\_ULONG'
       3. compilation-cloud\_controller\_ng > BN\_ULONG n0[2]; // least significant words of (R\*Ri-1)/N
       4. compilation-cloud\_controller\_ng > ^~~~~~~~
       5. compilation-cloud\_controller\_ng > third\_party/boringssl/include/openssl/bn.h:927:42: error: unknown type name
       6. compilation-cloud\_controller\_ng > 'BN\_ULONG'
       7. compilation-cloud\_controller\_ng > OPENSSL\_EXPORT unsigned BN\_num\_bits\_word(BN\_ULONG l);
       8. compilation-cloud\_controller\_ng > ^~~~~~~~
       9. compilation-cloud\_controller\_ng > cc1: error: unrecognized command line option '-Wno-implicit-fallthrough'
       10. compilation-cloud\_controller\_ng > [-Werror]
       11. compilation-cloud\_controller\_ng > cc1: all warnings being treated as errors
       12. compilation-cloud\_controller\_ng > make: \*\*\* [Makefile:2635:
       13. compilation-cloud\_controller\_ng > /fissile-out/cloud\_controller\_ng/vendor/bundle/ruby/2.4.0/gems/grpc-1.10.0/src/ruby/ext/grpc/objs/opt/third\_party/boringssl/crypto/asn1/a\_bool.o]
       14. compilation-cloud\_controller\_ng > Error 1
       15. compilation-cloud\_controller\_ng > make: Leaving directory
       16. compilation-cloud\_controller\_ng > '/fissile-out/cloud\_controller\_ng/vendor/bundle/ruby/2.4.0/gems/grpc-1.10.0'
       17. compilation-cloud\_controller\_ng > \*\*\* extconf.rb failed \*\*\*
       18. compilation-cloud\_controller\_ng > Could not create Makefile due to some reason, probably lack of necessary
       19. compilation-cloud\_controller\_ng > libraries and/or headers. Check the mkmf.log file for more details. You may
       20. compilation-cloud\_controller\_ng > need configuration options.
       21. compilation-cloud\_controller\_ng >
       22. compilation-cloud\_controller\_ng > Provided configuration options:
       23. compilation-cloud\_controller\_ng > --with-opt-dir
       24. compilation-cloud\_controller\_ng > --with-opt-include
       25. compilation-cloud\_controller\_ng > --without-opt-include=${opt-dir}/include
       26. compilation-cloud\_controller\_ng > --with-opt-lib
       27. compilation-cloud\_controller\_ng > --without-opt-lib=${opt-dir}/lib
       28. compilation-cloud\_controller\_ng > --with-make-prog
       29. compilation-cloud\_controller\_ng > --without-make-prog
       30. compilation-cloud\_controller\_ng > --srcdir=.
       31. compilation-cloud\_controller\_ng > --curdir
       32. compilation-cloud\_controller\_ng > --ruby=/var/vcap/packages/ruby-2.4/bin/$(RUBY\_BASE\_NAME)
       33. compilation-cloud\_controller\_ng >
       34. compilation-cloud\_controller\_ng > extconf failed, exit code 1
       35. compilation-cloud\_controller\_ng >
       36. compilation-cloud\_controller\_ng > Gem files will remain installed in
       37. compilation-cloud\_controller\_ng > /fissile-out/cloud\_controller\_ng/vendor/bundle/ruby/2.4.0/gems/grpc-1.10.0 for
       38. compilation-cloud\_controller\_ng > inspection.
       39. compilation-cloud\_controller\_ng > Results logged to
       40. compilation-cloud\_controller\_ng > /fissile-out/cloud\_controller\_ng/vendor/bundle/ruby/2.4.0/extensions/s390x-linux/2.4.0-static/grpc-1.10.0/gem\_make.out
       41. compilation-cloud\_controller\_ng >
       42. compilation-cloud\_controller\_ng > An error occurred while installing grpc (1.10.0), and Bundler cannot continue.
       43. compilation-cloud\_controller\_ng > Make sure that `gem install grpc -v '1.10.0'` succeeds before bundling.
       44. done: capi/cloud\_controller\_ng
   12. Blobstore\_url\_signer - Success
   13. Specified in the packages rows

All Successful Releases

1. garden-runc (1.11.1+dev.1)
   1. Autoconf - Success
   2. Apparmor - Success
   3. Busybox - Success
   4. Automake - Success
   5. Greenskeeper - Success
   6. Grootfs - Success
   7. Guardian - Success
   8. Golang - Success
   9. Libtool - Success
   10. Libseccomp - Success
   11. Runc - Success
   12. Tar - Success
   13. Pkg-config - Success
   14. util-linux - Success
   15. zlib - Success
   16. Garden-idmapper - Success
   17. iptables - Success
   18. lzo - Success
   19. xfs-progs - Success
   20. btrfs-progs - Success
2. routing (0.178.0+dev.1)
   1. Haproxy - Success
   2. Golang-1.9-linux - Success
   3. gorouter - worker aborted
   4. Route\_registrar - Success
   5. Routing-api - Success
   6. Routing\_utils - Success
   7. Tcp\_router - Success
3. cf-mysql (36.14.0+dev.1)
   1. Cf-mysql-common - Success
   2. Check - Success
   3. Boost - Success
   4. Scons - Success
   5. Python - Success
   6. Cf-mysql-cluster-health-logger - Success
   7. galera - Success
   8. Galera-healthcheck - Success
   9. generate-auto-tune-mysql - Success
   10. gra-log-purger - Success
   11. mariadb - Success
   12. mariadb\_ctrl - Success
   13. switchboard - Success
   14. xtrabackup - Success
4. nfs-volume (1.2.0+dev.1)
   1. Fuse-nfs - Success
   2. Golang-nfsvolume - Success
   3. Mapfs - Success
   4. nfsbroker - Success
   5. nfsv3driver - Success
5. scf (0+dev.1)
   1. Ruby-2.3 - Success
   2. Cli - Success
   3. Cli-network-policy-plugin - Success
   4. Service-registration-utils - Success
   5. Golang1.10 - Success
6. cf-usb (0+dev.1)
   1. Golang1.9 - Success
   2. Cf-usb - Success
7. nats (24+dev.1)
   1. Golang-1.10-linux - Success
   2. Nats-common - Success
   3. gnatsd - Success
8. cf-syslog-drain (6.5+dev.1)
   1. Golang1.9.4 - Success
   2. Scheduler - Success
   3. Adapter - Success
9. cflinuxfs2 (1.209.0+dev.1)
   1. Cflinuxfs2 - Success
10. cf-opensuse42 (0+dev.1)
    1. Opensuse42 - Success
11. cf-sle12 (0+dev.1)
    1. Cf-sle12 - Success
12. scf-helper (0+dev.1)
    1. generate-secrets - Success
13. loggregator (102.1+dev.1)
    1. Doppler - Success
    2. metron\_agent - Sucess
    3. Reverse\_log\_proxy - Success
    4. Loggregator\_trafficcontroller - Success
14. statsd-injector (1.3.0+dev.1)
    1. Statsd\_injector - Success
15. binary-buildpack (1.0.17+dev.1)
    1. Binary-buildpack - Success
16. dotnet-core-buildpack (2.0.3+dev.1)
    1. Dotnet-core-buildpack - Success
17. go-buildpack (1.7.19+dev.1)
    1. Go-buildpack - Success
18. java-buildpack (4.7+dev.1)
    1. Java-buildpack - Success
19. nodejs-buildpack (1.5.30+dev.1)
    1. Nodejs-buildpack - Success
20. php-buildpack (4.3.29+dev.1)
    1. Php-buildpack - Success
21. python-buildpack (1.5.16+dev.1)
    1. Python-buildpack - Success
22. ruby-buildpack (1.6.35+dev.1)
    1. Ruby-buildpack - Success
23. staticfile-buildpack (1.4.0+dev)
    1. Staticfile-buildpack - Success
24. postgres (26+dev.1)
    1. Postgres-9.6.6 - Success
    2. Postgres-common - Success
25. cf-smoke-tests (40.0.5+dev.1)
    1. Cli - Success
    2. Smoke\_tests - Success