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devonfw-ide

devonfw-ide

Efficient

Automated

Simple

Configurable

Maintainable

Customizable

devon

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software

Multi-platform

Multi-tenancy

devonfw-ide

devonfw-ide

Multiple Workspaces

Free

devonfw-ide

IDEs

Platforms

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Motivation

TL;DR

devonfw-ide

```
[/]$ devon
You are not inside a devonfw-ide installation: /
[/]$ cd /projects/devonfw
[devonfw]$ mvn
zsh: command not found: mvn
[devonfw]$ devon
devonfw-ide environment variables have been set for /projects/devonfw in workspace
main
[devonfw]$ mvn -v
Apache Maven 3.6.0 (97c98ec64a1fdfee7767ce5ffb20918da4f719f3; 2018-10-
24T20:41:47+02:00)
Maven home: /projects/devonfw/software/maven
Java version: 1.8.0_191, vendor: Oracle Corporation, runtime:
/projects/devonfw/software/java
Default locale: en_DE, platform encoding: UTF-8
OS name: "mac os x", version: "10.14.3", arch: "x86_64", family: "mac"
[devonfw]$ cd /projects/ide-test/workspaces/test/my-project
[my-project]$ devon
devonfw-ide environment variables have been set for /projects/ide-test in workspace
test
[my-project]$ mvn -v
Apache Maven 3.6.0 (97c98ec64a1fdfee7767ce5ffb20918da4f719f3; 2018-10-
24T20:41:47+02:00)
Maven home: /projects/ide-test/software/maven
Java version: 11.0.2, vendor: Oracle Corporation, runtime: /projects/ide-
test/software/jdk/Contents/Home
Default locale: en_DE, platform encoding: UTF-8
OS name: "mac os x", version: "10.14.3", arch: "x86_64", family: "mac"
[ide-test]$ devon eclipse
launching Eclipse for workspace test...
[my-project]$ devon build
[INFO] Scanning for projects...
...
[INFO] BUILD SUCCESS
```

devonfw-ide

Setup

Prerequisites

- `*.tar.gz` `tar` `gzip`
- `bash` `curl`
- `sudo`
`apt-get install git curl` `sudo yum install git-core curl`
-

Download

`devonfw-ide`

Install

`C:\projects` `/projects`
`my-project` `devonfw-ide-`
`scripts-*.tar.gz` `setup`
`setup.bat`

Uninstall

`devonfw-ide`

```
devon ide uninstall
```

`devonfw-ide`

`devonfw-ide`

non-invasive

`devon ide uninstall`

`devon`

`~/.devon/devon`

`devon`

`~/.bashrc`

`~/.zshrc`

`alias`

`devon="source ~/.devon/devon"`

devon.bat	
%USERPROFILE%\scripts\devon.bat	
%USERPROFILE%\scripts	PATH
devonfw-ide	~/Downloads/devonfw-ide

Testing SNAPSHOT releases

*.tar.gz

1. Usage

```
devonfw-ide
```

```
devonfw-ide
```

1.1. Usage

1.1.1. Developer

```
settings-URL
```

```
setup <<settings-URL>>
```

```
setup
```

Settings URL

```
2021.04.001
```

```
devon
```

```
[Tab]
```

Update

```
devon ide update
```

```
software
```

```
devon ide update
```

Working with multiple workspaces

```
release2.1
```

```
git clone ...
```

```
cd
```

```
create-script
```


1.1.2. Admin

devonfw-ide

ide-

admin

ide-admin

devonfw-

ide

gitlab

production-line

Fork

```
git remote add upstream https://github.com/devonfw/ide-settings.git
git fetch upstream
git pull upstream master
git push
```

settings

devon.properties

```
DEVON_IDE_TOOLS=(java mvn eclipse)
ECLIPSE_VERSION=2020-06
# use e.g. 8u242b08 for Java 8
#JAVA_VERSION=8u242b08
JAVA_VERSION=11.0.5_10
MAVEN_VERSION=3.6.2
```

settings

projects

devonfw

settings

settings

settings

settings

git fetch git checkout -t origin/feature/«name» devon ide update

Announce changes to your team

devonfw-ide

Settings URL

Settings URL#branch

settings

devon ide update

devonfw-ide

devon ide

update scripts

1.2. Configuration

```
devonfw-ide
```

```
devon.properties
```

```
JAVA_VERSION ECLIPSE_PLUGINS
```

```
~/devon.properties
```

```
%USERPROFILE%/devon.properties
```

```
scripts/devon.properties
```

```
devonfw-ide
```

```
devon.properties
```

```
devonfw-ide-scripts
```

```
SETTINGS_PATH
```

```
SETTINGS_URL
```

```
settings/devon.properties ${SETTINGS_PATH}/devon.properties
```

```
workspaces/${WORKSPACE}/devon.properties
```

```
conf/devon.properties
```

```
M2_REPO=~/.m2/repository
```

```
${SETTINGS_PATH}/devon/conf/devon.properties
```

```
settings/projects/*.properties
```

1.2.1. devon.properties

```
devon.properties
```

```
# comments begin with a hash sign (#) and are ignored
```

```
variable_name=variable_value with space etc.
```

```
variable_name=${predefined_variable}/folder_name
```

```
${...}
```

```
%...% $...
```

```
$(...)
```

```
devon.properties
```

```
export exported_variable=this value will be exported in bash, in windows CMD the export
prefix is ignored
```

```
variable_name=
```

```
variable_name=~/.some/path/and.file
```

```
array_variable=(value1 value2 value3)
```

```
devonfw-
```

ide

var="value"

*.properties

conf/settings.xml

1.3. Variables

devonfw-ide
variables[.bat]
bold
-
devonfw-ide

Table 1. Variables of devonfw-ide

Variable	Value	Meaning
DEVON_IDE_HOME	/projects/my-project	devonfw-ide
PATH	\$PATH:\$DEVON_IDE_HOME/software /java:...	devon
DEVON_HOME_DIR	~	~
DEVON_IDE_TOOLS	(java mvn node npm)	
DEVON_IDE_CUSTOM_TOOLS	-	
DEVON_CREATE_START_SCRIPTS	(eclipse vscode)	
DEVON_OLD_PATH	...	PATH devon
WORKSPACE	main	main variables

Variable	Value	Meaning
WORKSPACE_PATH	\$DEVON_IDE_HOME/workspaces/\$WORKSPACE	variables
JAVA_HOME	\$DEVON_IDE_HOME/software/java	
SETTINGS_PATH	\$DEVON_IDE_HOME/settings	oasp4j-ide \$DEVON_IDE_HOME/workspaces/main/development/settings
M2_REPO	\$DEVON_IDE_HOME/conf/.m2/repository	~/.m2/repository
MAVEN_HOME	\$DEVON_IDE_HOME/software/maven	
MAVEN_OPTS	-Xmx512m -Duser.home=\$DEVON_IDE_HOME/conf	
DOCKER_EDITION	DOCKERDESKTOP	DOCKERDESKTOP devon docker setup
GRAALVM_HOME	\$DEVON_IDE_HOME/software/extra/graalvm	
DEVON_SOFTWARE_REPOSITORY	-	
DEVON_SOFTWARE_PATH	-	
ECLIPSE_VMARGS	-Xms128M -Xmx768M -XX:MaxPermSize=256M	
ECLIPSE_PLUGINS	-	

Variable	Value	Meaning
<<TOOL>>_VERSION	-	<<TOOL>> ECLIPSE_VERSION MAVEN_VERSION
EXTRA_JAVA_VERSION	-	
<<TOOL>>_BUILD_OPTS	clean install	<<TOOL>>
<<TOOL>>_RELEASE_OPTS	clean deploy -Dchangelist=-Pdeploy	<<TOOL>>
DEVON_IDE_TRACE		devonfw-ide ATTENTION: devon.properties export DEVON_IDE_TRACE=true set DEVON_IDE_TRACE=true

1.4. Devon CLI

devonfw-ide

devon

1.4.1. Devon

devon

DEVON_IDE_HOME

devonfw-ide

```
[/]$ devon
You are not inside a devon IDE installation: /
[/]$ cd /projects/my-project/workspaces/test/my-git-repo
[my-git-repo]$ devon
devonfw-ide has environment variables have been set for /projects/my-project in
workspace main
[my-git-repo]$ echo $DEVON_IDE_HOME
/projects/devon
[my-git-repo]$ echo $JAVA_HOME
/projects/my-project/software/java
```

1.4.2. Commandlets

devon

commandlets

devon <<commandlet>> [<<arg>>]*

\$DEVON_IDE_HOME/scripts/command

devonfw-ide

Table 2. Generic arguments of every commandlet

Argument(s)	Meaning
-b --batch	
-q --quiet	

Command-wrapper

devon

mvnw

gradlew

devon mvn clean install

mvn clean

install

devon

mvn

node npm

PATH

devon

devon

Commandlet overview

1.4.3. aws

```
devon aws <<args>>
```

Table 3. Usage of `devon aws`

Argument(s)	Meaning
setup	

1.4.4. Azure CLI

```
devon az <<args>>
```

ATTENTION:

```
devon az <<args>>
```

Table 4. Usage of `devon az`

Argument(s)	Meaning
setup	
<<args>>	az help az <<args>>

Configuration File

```
devon conf/.azure
```

1.4.5. build

```
build pom.xml package.json
```

devon build

devon build

definition of done

devon build

devon build <<args>>
mvn <<args>>

1.4.6. Docker

ATTENTION:

devon docker <<args>>

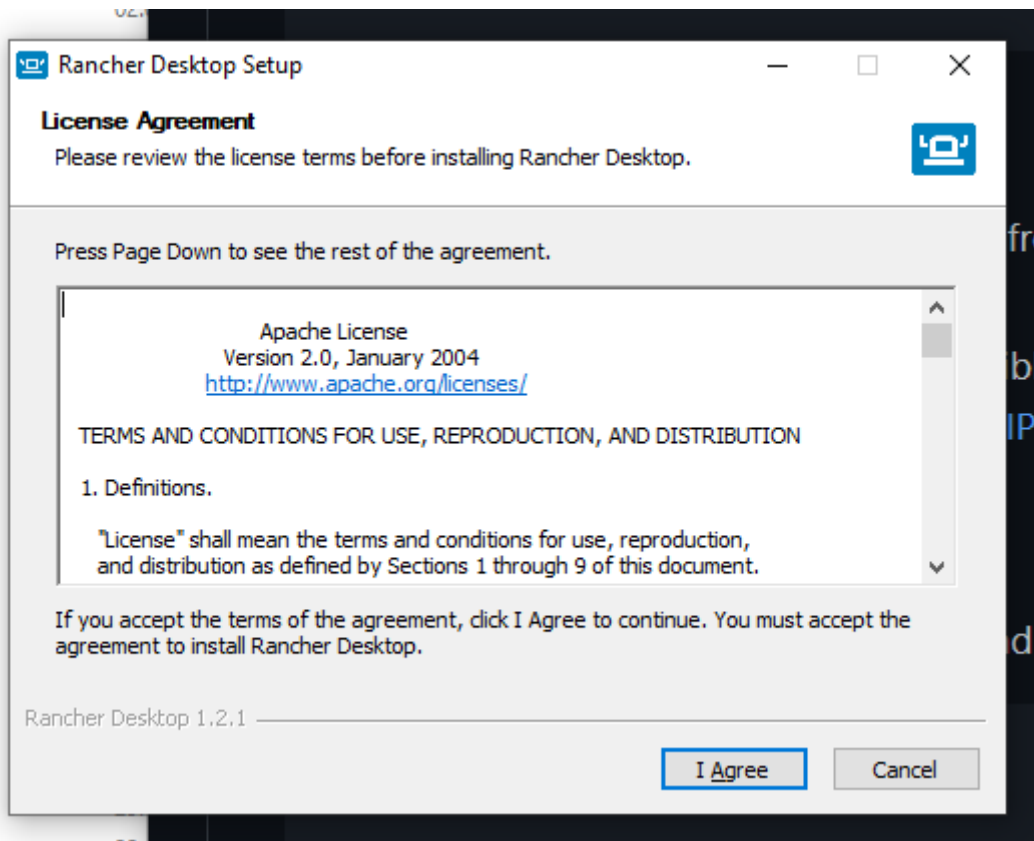
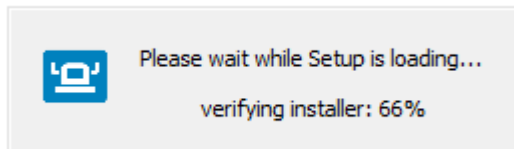
Table 5. Usage of devon docker

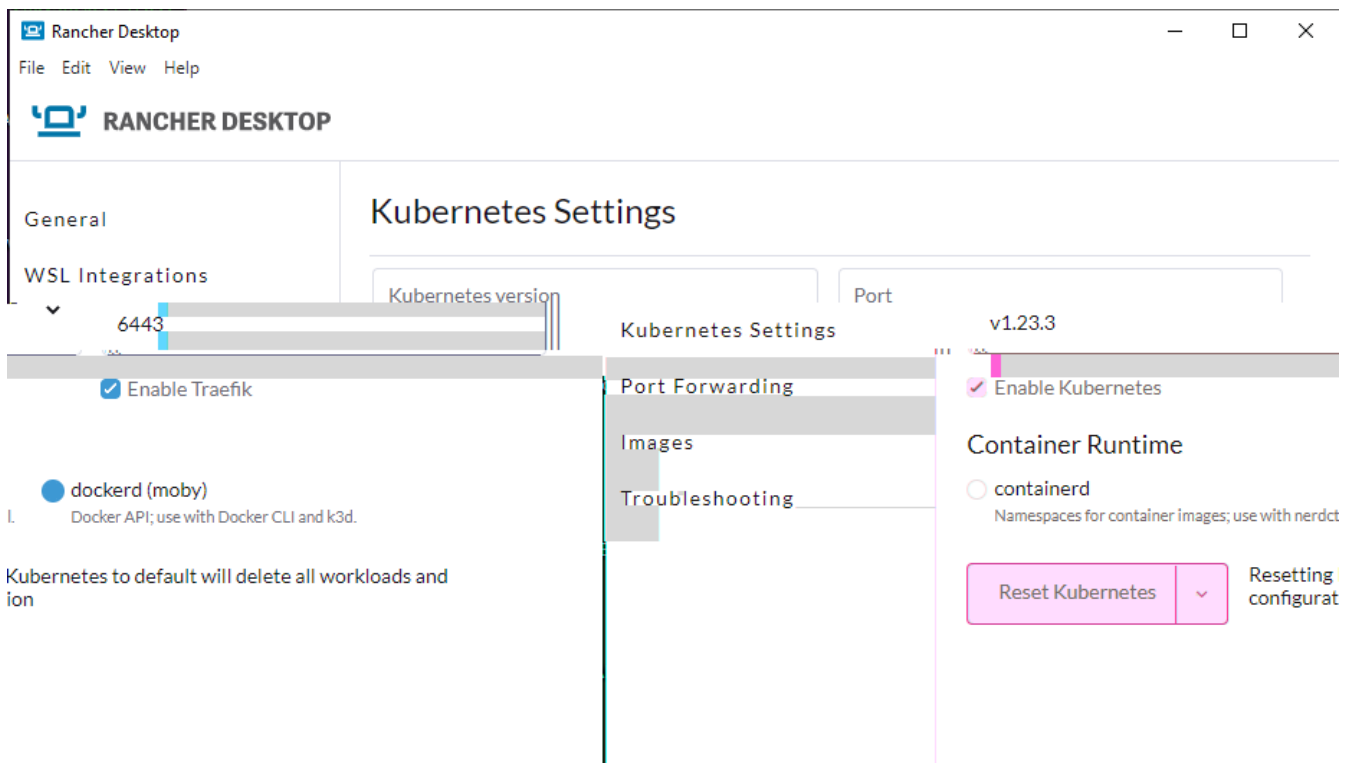
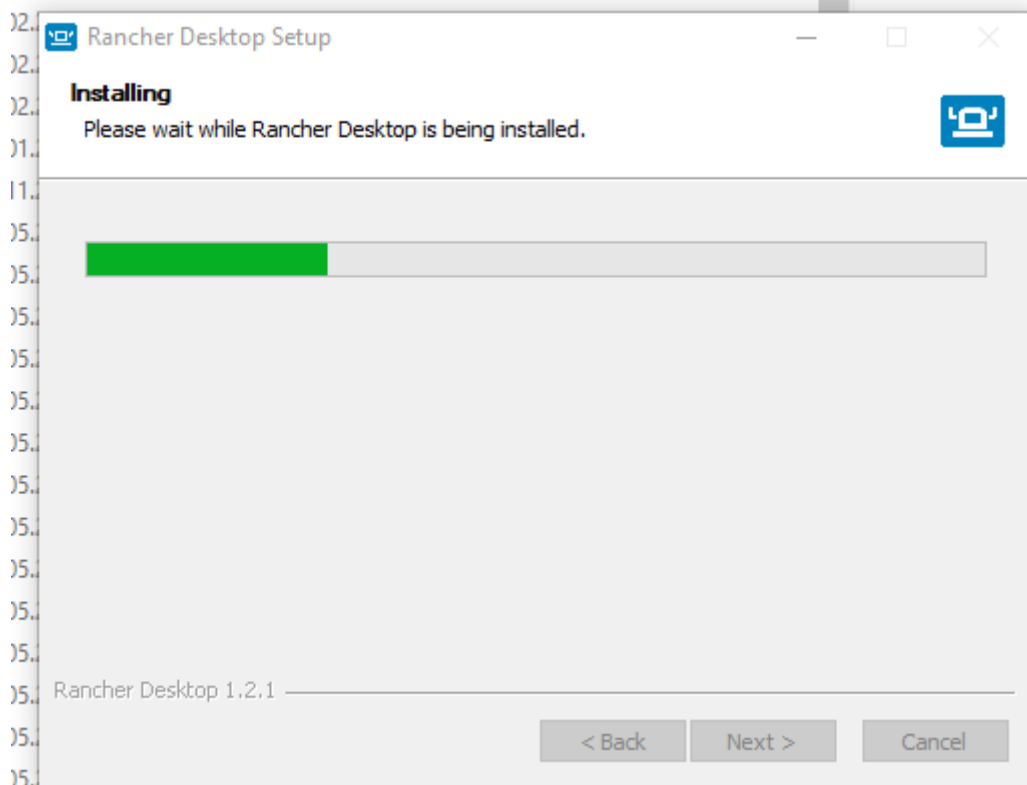
Argument(s)	Meaning
setup	
<<args>>	docker help <<args>>

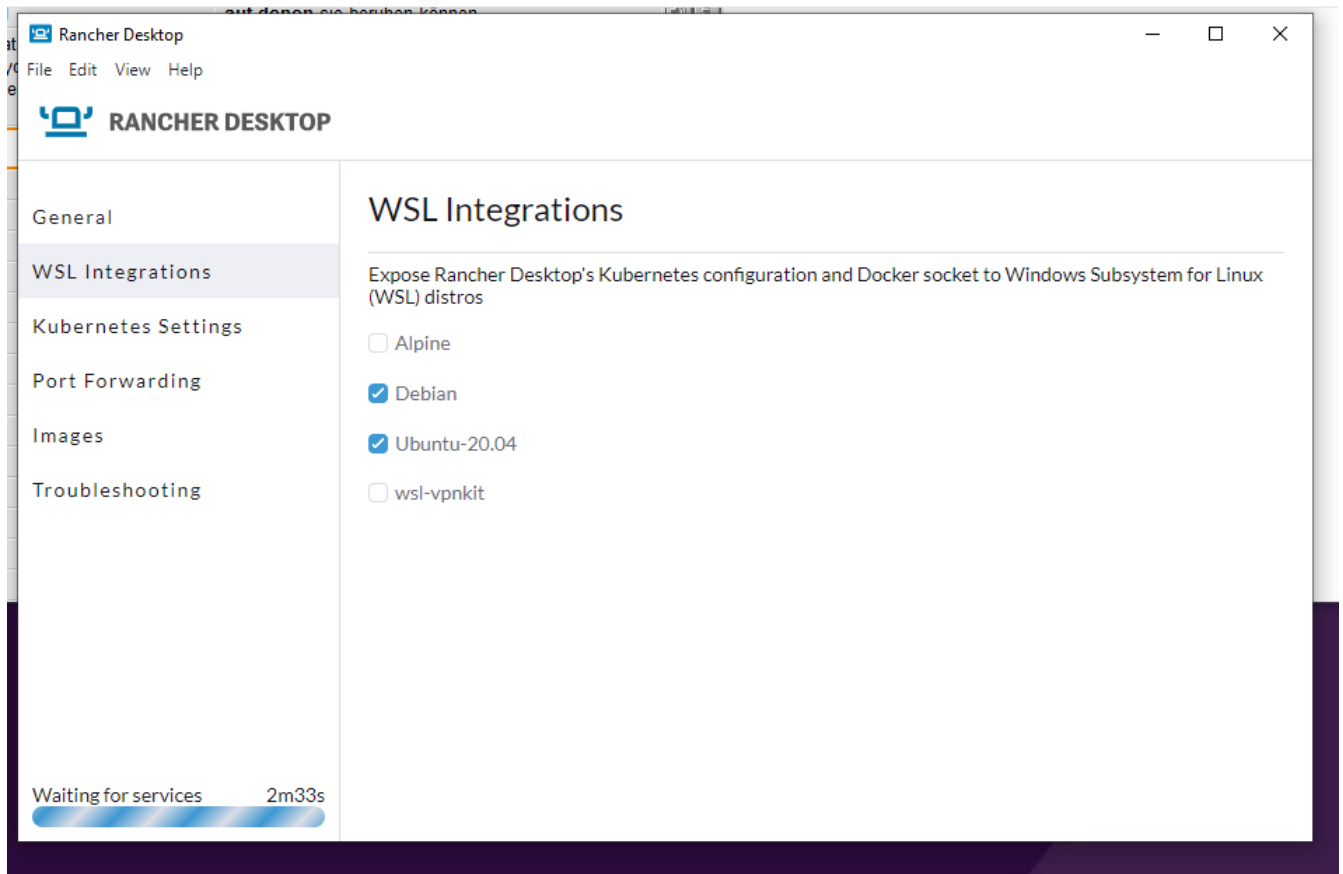
Setup


Docker Desktop

Rancher Desktop








 Rancher Desktop

File Edit View Help

 **RANCHER DESKTOP**

General

WSL Integrations

Kubernetes Settings

Port Forwarding

Images

Troubleshooting

Welcome to Rancher Desktop

Rancher Desktop provides Kubernetes and image management through the use of a desktop application.


- Project Discussions: [#rancher-desktop](#) in [Rancher Users](#) Slack
- Project Links: [Homepage](#) [Issues](#)

Version: 1.3.0 ☒ Check for updates automatically


☐ Allow collection of anonymous statistics to help us improve Rancher Desktop

Send anonymized usage info, error reports, etc. to help improve Rancher Desktop. Your data will not be shared with anyone else, and no information about what specific resources or endpoints you are deploying is included.

Waiting for services 5m2s

 Rancher Desktop

File Edit View Help

 **RANCHER DESKTOP**

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Version: 1.3.0 ☒ Check for updates automatically

☐ Allow collection of anonymous statistics to help us improve Rancher Desktop

Send anonymized usage info, error reports, etc. to help improve Rancher Desktop. Your data will not be shared with anyone else, and no information about what specific resources or endpoints you are deploying is included.



requirements

Windows and macOS

Preferences

Start Docker Desktop when you login

General

```
[windows][r]
```

```
services.msc
```

OK

Options

automatic manual

Mac A1


```
docker: no matching manifest for linux/arm64/v8 in the manifest list entries.
```

```
--platform linux/x86_64
```

Linux

usage

```
docker help
```

```
docker
```

Introduction

Why we chose Rancher Desktop as Docker-Desktop alternative

	Rancher Desktop	Podman-Minikube	Others
Pro	→		

	Rancher Desktop	Podman-Minikube	Others
Contra		→	

1.4.7. dotnet

dotnet

devon dotnet <<args>>

dotnet <<args>>

dotnet

devon dotnet <<args>>

Table 6. Usage of devon dotnet

Argument(s)	Meanidotnet
setup	
create	
<<args>>	<<args>>

1.4.8. eclipse

devon eclipse

Table 7. Usage of devon eclipse

Argument(s)	Meaning
--all	
setup	
add-plugin «id» [«url»]	
run	
start	run
ws-up[date]	
ws-re[verse]	
ws-reverse-add	
create-script	

Table 8. Variables of devonfw-ide for Eclipse

Variable	Meaning
ECLIPSE_VERSION	
ECLIPSE_EDITION_TYPE	
EXTRA_JAVA_VERSION	JAVA_VERSION

plugins

devonfw-ide

```
plugin_url=http://download.eclipse.org/tm/terminal/marketplace
plugin_id=org.eclipse.tm.terminal.feature.feature.group,org.eclipse.tm.terminal.view.f
eature.feature.group,org.eclipse.tm.terminal.control.feature.feature.group,org.eclipse
.tm.terminal.connector.ssh.feature.feature.group,org.eclipse.tm.terminal.connector.tel
net.feature.feature.group
plugin_active=true
```

plugin_url

plugin_id

devonfw-ide

About Eclipse > Installation Details
Id

plugin_active

true

```
devon eclipse add-plugin <<plugin-name>>
settings/eclipse/plugins/<<plugin-name>>.properties
settings/eclipse/plugins
```

plugin_active=false

plugin_active=false

legacy plugin config

settings/eclipse/plugins

ECLIPSE_PLUGINS

eclipse

devon.properties

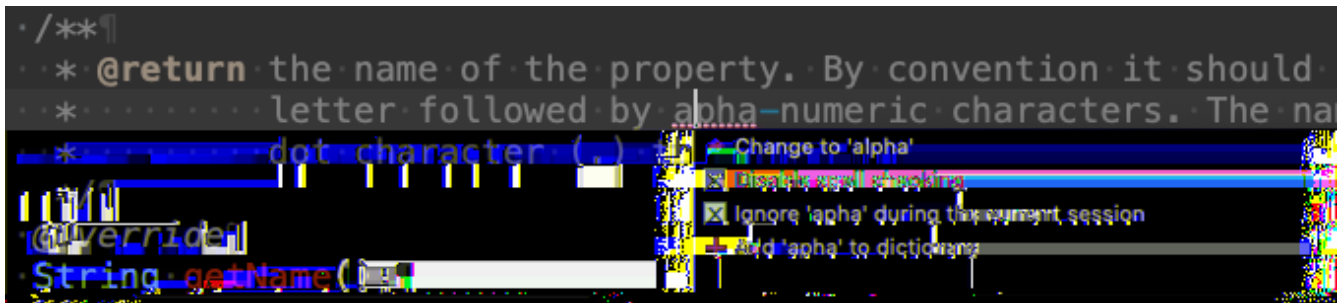
```
ECLIPSE_PLUGINS=("AnyEditTools.feature.group"
"https://raw.githubusercontent.com/iloveeclipse/plugins/latest/"
"com.ess.regexutil.feature.group" "http://regex-util.sourceforge.net/update/")
```

```
ECLIPSE_PLUGINS=("anyedit" "" "regexutil" "")
```

dictionary

devonfw-ide

[Ctrl][1]



non-english dictionary

Encoding > Convert to UTF-8

1.4.9. GCViewer

gcviewer

ATTENTION:

```
devon gcviewer <<args>>
```

Table 9. Usage of `devon gcviewer`

Argument(s)	Meaning
<code>setup</code>	
<code>start</code>	

1.4.10. GraalVM

```

    graalvm
    gu <<args>>
    devon graalvm gu <<args>>
```

ATTENTION:

```
devon graalvm <<args>>
```

Table 10. Usage of `devon graalvm`

Argument(s)	Meaning
<code>setup</code>	<code>GRAALVM_VERSION</code>
<code><<args>></code>	<code><<args>></code>

```
    graalvm
```

1.4.11. gradle

```

    gradle
    devon gradle <<args>>
    gradle <<args>>
```

```
devon gradle <<args>>
```

Table 11. Usage of `devon gradle`

Argument(s)	Meaning
<code>setup</code>	<code>GRADLE_VERSION</code>
<code><<args>></code>	<code><<args>></code>

1.4.12. Helm

ATTENTION:

```
devon helm <<args>>
```

Table 12. Usage of `devon helm`

Argument(s)	Meaning
setup	
<<args>>	helm --help

1.4.13. help

```
help
```

Table 13. Usage of `devon help`

Argument(s)	Meaning
<<command>>	<<command>>

```
devon help <<command>>
```

```
devon <<command>> help
```

1.4.14. ide

```
ide
```

```
devonfw-ide
```

```
devon
```

```
ide <<args>>
```

Table 14. Usage of `devon ide`

Argument(s)	Meaning
setup [<<SETTINGS_URL>>]	
update [<<package>>]	
update scripts [to <<version>>]	
create [<<path>>] [<<SETTINGS_URL>>]	<<path>>

Argument(s)	Meaning
uninstall	

setup

```
devon ide setup --devonfw-ide $DEVON_IDE_HOME
```

```
devonfw-ide
```

```
devon
```

```
DEVON_IDE_TOOLS
```

```
setup --devon ide setup
```

update

```
devon ide update --devonfw-ide <<package>>
```

```
scripts --devonfw-ide-scripts
```

```
scripts
```

```
git pull
```

```
scripts settings
```

```
settings software
```

```
scripts
```

```
scripts
```

```
scripts
```

```
to
```

```
devon ide update scripts to 3.1.99
```

3.1.99

devon ide update scripts

create

devon ide create

```
devon ide create /path/to/install [<<SETTINGS_URL>>]
```

uninstall

devonfw-ide

```
devon ide uninstall
```

devonfw-ide

scripts .devon .bashrc

uninstall

DEVON_IDE_HOME

devonfw-ide
~/Downloads

devonfw-ide

1.4.15. intellij

intellij

devonfw-ide

devon intellij

devon intellij <<args>>

Table 15. Usage of `devon intellij`

Argument(s)	Meaning
--all	

Argument(s)	Meaning
setup	
add-plugin <<id>>	
run	
start	run
ws-up[date]	
ws-re[verse]	
ws-reverse-add	
create-script	

Table 16. Variables of devonfw-ide for intelliJ

Variable	Meaning
INTELLIJ_VERSION	
INTELLIJ_EDITION_TYPE	C U
EXTRA_JAVA_VERSION	JAVA_VERSION

plugins

devonfw-ide

```
plugin_id=org.intellij.scala
plugin_active=false
```

plugin_id

devonfw-ide

Versions

plugin_active

true

devon intellij add-plugin <<plugin_id>>

plugin_active=false

plugin_active=false

1.4.16. ionic

ionic

devon ionic

<<args>>

ionic <<args>>

devon ionic <<args>>

Table 17. Usage of devon ionic

Argument(s)	Meaning
setup	YARN_VERSION
create	
cicd <<args>>	
<<args>>	<<args>>

1.4.17. jasypt

jasypt

devon jasypt <<args>>

Table 18. Usage of devon mvn

Argument(s)	Meaning
setup	JASYPT_VERSION
encrypt	
decrypt	

example

```
devon jasypt encrypt
Enter masterpassword: master
Enter secret to encrypt/decrypt: secret
```

----ENVIRONMENT-----

Runtime: AdoptOpenJDK OpenJDK 64-Bit Server VM 11.0.9.1+1

----ARGUMENTS-----

```
input: secret
password: master
ivGeneratorClassName: org.jasypt.iv.RandomIvGenerator
algorithm: PBEWITHHMACSHA512ANDAES_256
```

----OUTPUT-----

fQPbaDd8wq0h0q0Zw/AEKp2TD4Y07Y//M5PzaLgF3qL7YnBQjiGLtW8s5XkP3Ly9

```
devon jasypt decrypt
Enter masterpassword: master
Enter secret to encrypt/decrypt:
fQPbaDd8wq0h0q0Zw/AEKp2TD4Y07Y//M5PzaLgF3qL7YnBQjiGLtW8s5XkP3Ly9
```

----ENVIRONMENT-----

Runtime: AdoptOpenJDK OpenJDK 64-Bit Server VM 11.0.9.1+1

----ARGUMENTS-----

```
input: fQPbaDd8wq0h0q0Zw/AEKp2TD4Y07Y//M5PzaLgF3qL7YnBQjiGLtW8s5XkP3Ly9
password: master
ivGeneratorClassName: org.jasypt.iv.RandomIvGenerator
algorithm: PBEWITHHMACSHA512ANDAES_256
```

----OUTPUT-----

secret

1.4.18. java

java

devon java <<args>>

Table 19. Usage of devon java

Argument(s)	Meaning
setup	JAVA_VERSION 8u242b08 11.0.6_10
	groupId artifactId -DbType=<<db>>
migrate [from <<version>>] [single]	
cicd <<args>>	

2021.12.003

EXTRA_JAVA_VERSION

create

```
devon java create com.mycustomer.myapplication
```

com.mycustomer.myapplication com.mycustomer
myapplication 1.0.0-SNAPSHOT

```
devon java create -Dversion=0.0.1-alpha1 com.mycustomer.myapplication
```

com.mycustomer.myapplication com.mycustomer
myapplication 0.0.1-alpha1

```
devon java create com.mycustomer.myapplication com.my-customer
```

myapplication 1.0.0-SNAPSHOT com.mycustomer.myapplication com.my-customer

```
devon java create com.mycustomer.myapplication com.my-customer my-application
```

my-application 1.0.0-SNAPSHOT com.mycustomer.myapplication com.my-customer

```
devon java create com.mycustomer.myapplication -DartifactId=my-app -DdbType=hana
```

my-app 1.0.0-SNAPSHOT com.mycustomer.myapplication com.mycustomer

```
devon java create com.mycustomer.myapplication -DdbType=oracle -Dversion=0.0.1 com.my-customer -Dbatch=batch
```

myapp 0.0.1 com.mycustomer.myapplication com.my-customer

migrate

```
devon java migrate
```

1.4.19. jenkins

jenkins

Table 20. Usage of `devon jenkins`

Argument(s)	Meaning
setup	
start	
stop	
add	

1.4.20. Kubernetes

kubectl

ATTENTION:

devon kubectl <<args>>

Table 21. Usage of devon kubectl

Argument(s)	Meaning
setup	
<<args>>	kubectl help

setup

Docker Desktop
Docker Desktop

usage

kubectl

kubectl help

kubectl

1.4.21. lazydocker

ATTENTION:

devon lazydocker <<args>>

Table 22. Usage of devon lazydocker

Argument(s)	Meaning
setup	
<<args>>	

1.4.22. mvn

mvn

devon mvn <<args>>

mvn <<args>>

devon mvn <<args>>

Table 23. Usage of devon mvn

Argument(s)	Meaning
	MVN_BUILD_OPTS
setup	MAVEN_VERSION
get-version	dev[-SNAPSHOT]
set-version <<nv>> [<<cv>>]	<<nv>> <<cv>>
check-no-snapshots	<<version>>-SNAPSHOT
check-top-level-project	
	MVN_RELEASE_OPTS
<<args>>	<<args>>

1.4.23. ng

ng

ng <<args>>

devon ng <<args>>

ng

devon ng <<args>>

Table 24. Usage of devon ng

Argument(s)	Meaning
setup	NG_VERSION
create	
cid <<args>>	
<<args>>	<<args>>

1.4.24. node

node

devon node <<args>>

Table 25. Usage of devon node

Argument(s)	Meaning
setup	node.js NODE_VERSION
create <<name>> [<<args>>]	(same as devon4node new)
generate <<s>> [<<args>>]	(same as devon4node generate)
db <<c>> [<<args>>]	(same as devon4node db)
cid <<args>>	
<<args>>	

1.4.25. npm

npm

devon npm <<args>>

npm <<args>>

devon npm <<args>>

Table 26. Usage of devon npm

Argument(s)	Meaning
	NPM_BUILD_OPTS
setup	NPM_VERSION
get-version	

Argument(s)	Meaning
set-version <<nv>> [<<cv>>]	<<nv>> <<cv>>
check-top-level-project	
release	NPM_RELEASE_OPTS
<<args>>	<<args>>

1.4.26. OpenShift CLI

oc
devon oc <<args>>

ATTENTION:

Table 27. Usage of devon oc

Argument(s)	Meaning
setup	
<<args>>	--help oc

1.4.27. Python

devon python <<args>>

Table 28. Usage of python

Argument(s)	Meaning
setup	
help	
version	
pip	

Argument(s)	Meaning
pip3	
<<args>>	

1.4.28. Pip

```
devon pip setup
```

```
devon pip install <<package>>
```

```
devon pip remove
```

```
devon pip remove <<package>>
```

```
devon
```

Table 29. Usage of pip

Argument(s)	Meaning
setup	
<<args>>	
install <<package>>	
remove <<package>>	
version	

1.4.29. release

```
<<version>>-SNAPSHOT
```

```
<<version>>
```

```
<<version>>-SNAPSHOT
```

```
<<version>>
```

```
pom.xml
```

```
release/<<version>>
```

(`<<version>>+1`)-SNAPSHOT

`pom.xml`

Table 30. Usage of `devon java`

Argument(s)	Meaning
...	

Build-Tools

`release`

`<<TOOL`

`>>_RELEASE_OPTS`

`pom.xml`

`MVN_RELEASE_OPTS`

`clean deploy -Dchangelist= -Pdeploy`

`devon release -P myProfile`

invoke deployment on build-system

```
mvn clean deploy -Dchangelist= -Pdeploy -P myProfile
```

`deploy`

1.4.30. sonar

`sonar`

Table 31. Usage of `devon sonar`

Argument(s)	Meaning
<code>setup</code>	
<code>start</code>	
<code>stop</code>	
<code>analyze</code>	

1.4.31. Terraform

ATTENTION:

devon terraform <<args>>

Table 32. Usage of devon terraform

Argument(s)	Meaning
setup	
<<args>>	terraform --help

1.4.32. vscode

vscode

devonfw-ide

devon vscode

devon vscode <<args>>

Table 33. Usage of devon vscode

Argument(s)	Meaning
--all	
setup	
add-plugin <<id>>	
run	
start	run
ws-up[date]	
ws-re[verse]	
ws-reverse-add	
create-script	

plugins

extensions

devonfw-

ide

```
plugin_id=devonfw.devonfw-extension-pack
plugin_active=true
```

plugin_id

devonfw-ide

Extensions

plugin_active

true

```
devon vscode add-plugin <<plugin-name>>
settings/vscode/plugins/<<plugin-name>>.properties settings/vscode/plugins
```

plugin_active=false

plugin_active=false

cleaning plugins on update

VS code

settings/vscode/plugins

```
clean_plugins_on_update=true
```

VS code

devon ide update

1.4.33. yarn

yarn

yarn <<args>>

devon yarn <<args>>

devon yarn <<args>>

Table 34. Usage of devon yarn

Argument(s)	Meaning
	YARN_BUILD_OPTS
setup	YARN_VERSION
get-version	
set-version <<nv>> [<<cv>>]	<<nv>> <<cv>>
check-top-level-project	
release	YARN_RELEASE_OPTS
<<args>>	<<args>>

1.5. Structure

devonfw-ide

Listing 1. File structure of your devonfw-ide

```
/ projects (or C:\Projects, etc.)
├── / my-project ($DEVON_IDE_HOME)
│   ├── / conf
│   ├── / log
│   ├── / scripts
│   ├── / settings
│   ├── / software
│   ├── / system
│   ├── / updates
│   ├── / workspaces
│   ├── setup
│   ├── setup.bat
│   └── devon-ide-doc.pdf
```

1.5.1. conf

Listing 2. File structure of the conf folder

```
/ conf
├── / .m2
│   ├── / repository
│   │   ├── / ant
│   │   ├── / ...
│   │   └── / zw
│   ├── settings-security.xml
│   └── settings.xml
├── / .sonar
├── / ...
└── variables
```

.m2

repository

devonfw-ide

`$[<<variable.name>>]`

```
${DEVON_IDE_HOME}/conf/.m2/settings.xml  
setup
```

```
devon mvn
```

```
devonfw-ide
```

```
devonfw-ide
```

```
variables
```

```
devonfw-ide
```

1.5.2. log

1.5.3. scripts

```
devonfw-ide
```

Listing 3. File structure of the conf folder

```
/scripts
├── / command
│   ├── aws
│   ├── az
│   ├── build
│   ├── docker
│   ├── dotnet
│   ├── eclipse
│   ├── gcviewer
│   ├── graalvm
│   ├── gradle
│   ├── helm
│   ├── help
│   ├── ide
│   ├── intellij
│   ├── ionic
│   ├── jasypt
│   ├── java
│   ├── jenkins
│   ├── kubectl
│   ├── lazydocker
│   ├── mvn
│   ├── ng
│   ├── node
│   ├── npm
│   ├── oc
│   ├── project
│   ├── python
│   ├── pip
│   ├── release
│   ├── sonar
│   ├── terraform
│   ├── vscode
│   └── yarn
├── devon
├── devon.bat
├── environment-project
├── environment-project.bat
├── functions
└── devon.properties
```

devonfw-ide

devon

scripts

1.5.4. settings

devonfw-ide

settings

devonfw-ide

Settings URL

git

Structure

SETTINGS_PATH

Listing 4. File structure of settings

```
/settings
├── / devon
│   ├── / conf
│   │   ├── / .m2
│   │   │   └── settings.xml
│   │   ├── / npm
│   │   │   └── .npmrc
│   │   └── devon.properties
│   ├── / eclipse
│   │   ├── / workspace
│   │   │   ├── / setup
│   │   │   └── / update
│   │   ├── lifecycle-mapping-metadata.xml
│   │   └── project.dictionary
│   └── / ...
├── / sonarqube
│   └── / profiles
│       ├── Devon-C#.xml
│       ├── ...
│       └── Devon-XML.xml
├── / vscode
│   ├── / workspace
│   │   ├── / setup
│   │   └── / update
│   └── devon.properties
```

settings

devon.properties

devon

Configuration Philosophy



Customize Settings

settings

1.5.5. software



Repository



```
${DEVON_SOFTWARE_REPOSITORY}/<<tool>>/<<version>>/<<tool>>-<<version>>[-<<os>>].tgz
```

<<tool>>

<<version>>

<<os>> windows linux

mac

maven

Shared

devonfw-ide

software

devonfw-ide

devonfw-ide

devonfw-ide

devonfw-ide



~/devon.properties

C:\projects\software

devonfw-ide

\${DEVON_SOFTWARE_PATH}/\${software_name}/\${software_version}

\${DEVON_IDE_HOME}/software/\${software_name}

DEVON_SOFTWARE_PATH

/projects/software

devonfw-ide

devonfw-ide

DEVON_SOFTWARE_PATH

\${DEVON_IDE_HOME}/conf/devon.properties

DEVON_SOFTWARE_PATH=

devonfw-ide

Custom

devonfw-ide

devonfw-ide

devonfw-ide

devonfw-ide

DEVON_IDE_CUSTOM_TOOLS

devon.properties

```
<<tool>>:<<version>>[:all][:<<repository-url>>]
<<repository-url>>
```

DEVON_SOFTWARE_REPOSITORY

:all

windows linux

mac

`${DEVON_IDE_HOME}/settings/devon.properties`

```
DEVON_IDE_CUSTOM_TOOLS=(jboss-eap:7.1.4.GA:all:https://host.tld/projects/my-project
firefox:70.0.1)
```

software

<https://host.tld/projects/my-project/jboss-eap/7.1.4.GA/jboss-eap-7.1.4.GA.tgz><https://host.tld/projects/my-project/firefox/70.0.1/firefox-70.0.1-windows.tgz>

-windows

-mac

-linux

1.5.6. system

devonfw-ide

1.5.7. updates

updates

1.5.8. workspaces

workspaces

main

main

testing my-sub-project

test release

workspaces/main

Listing 5. File structure of workspaces

```

/ workspaces
├── / main
│   ├── / .metadata
│   ├── / ide
│   ├── / devon4j
│   └── / my-thai-star
└── / stable
    ├── / .metadata
    ├── / ide
    └── / devon4j

```

main

stable

devon4j
devon4j

git checkout

1.5.9. Project import

devonfw-ide

.properties
.properties

projects

```

path=myproject
workingsets=Set1,Set2
workspace=example
git.url=http://github.com/someorg/someproject
git.branch=develop
build.path=.
build.cmd=mvn -DskipTests=true -Darchetype.test.skip=true clean install
eclipse=import
active=true

```

.Variables of project import

Variable	Value	Meaning
path	myproject \${WORKSPACE_PATH}/myproject	
working sets	ws1,ws2	
workspace	main	main
git.url	http://github.com/someorg/someproject	
git.branch	develop	
build.path	.	path build.cmd .
build.cmd	mvn -D skip Tests=true -Darchetype.test.skip=true clean install	devonfw
eclipse	import	import
active	true	false

.properties
.properties

2. Advanced Features

2.1. Cross-Platform Tooling

2.1.1. Browser Plugins

2.1.2. Draw Diagrams

2.1.3. Git Client

2.1.4. Tab Grouping For The Web Browser

2.2. Windows Tooling

2.2.1. Installing software

Chocolatey

Winget

2.2.2. Integration into Windows-Explorer

devonfw-ide

2.2.3. Tabs everywhere

tabs

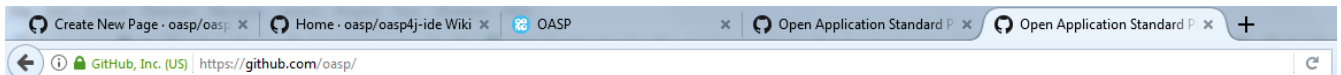


Figure 1. Tabs in Firefox

Tabs for Windows Explorer

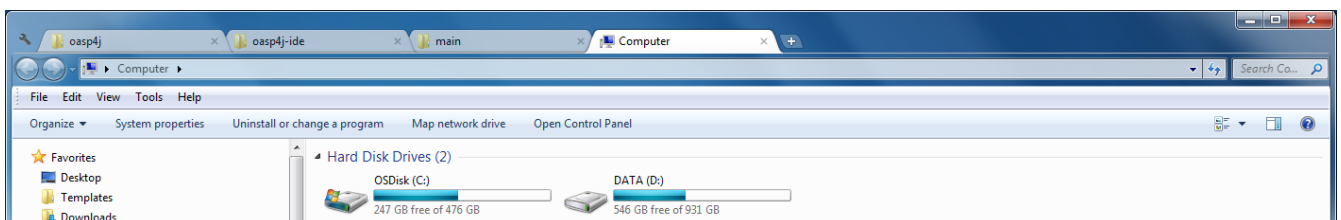


Figure 2. Tabs in Windows Explorer

Tabs for SSH

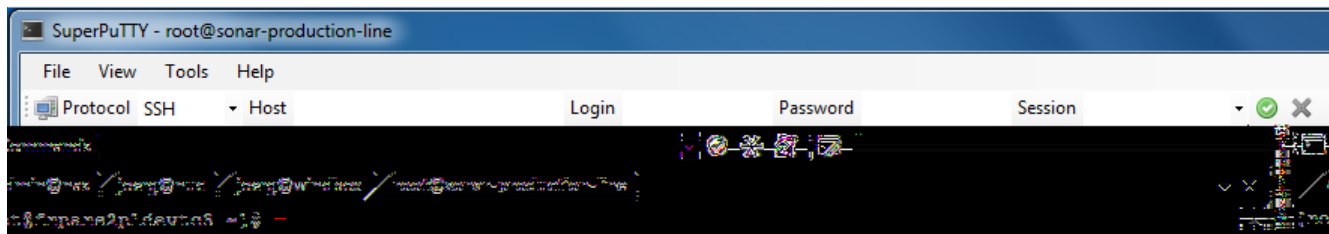


Figure 3. Tabs for SSH

Tabs for Shells

Microsoft Store

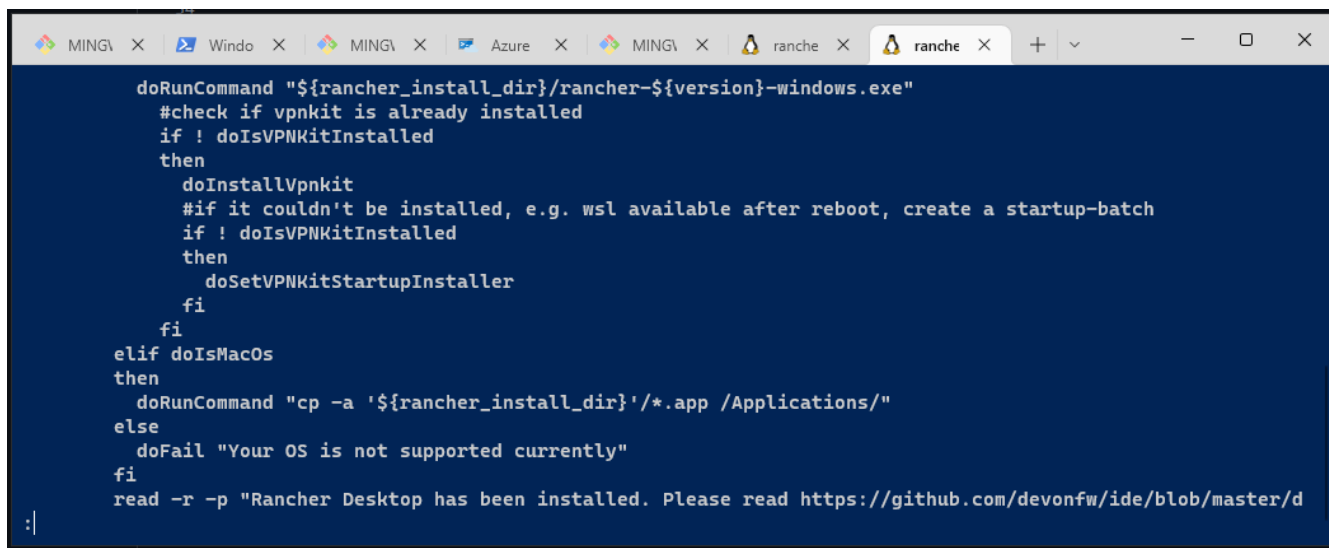


Figure 4. Tabs for multiple shells inside one window

git

Add a Git Bash Profile to Windows Terminal

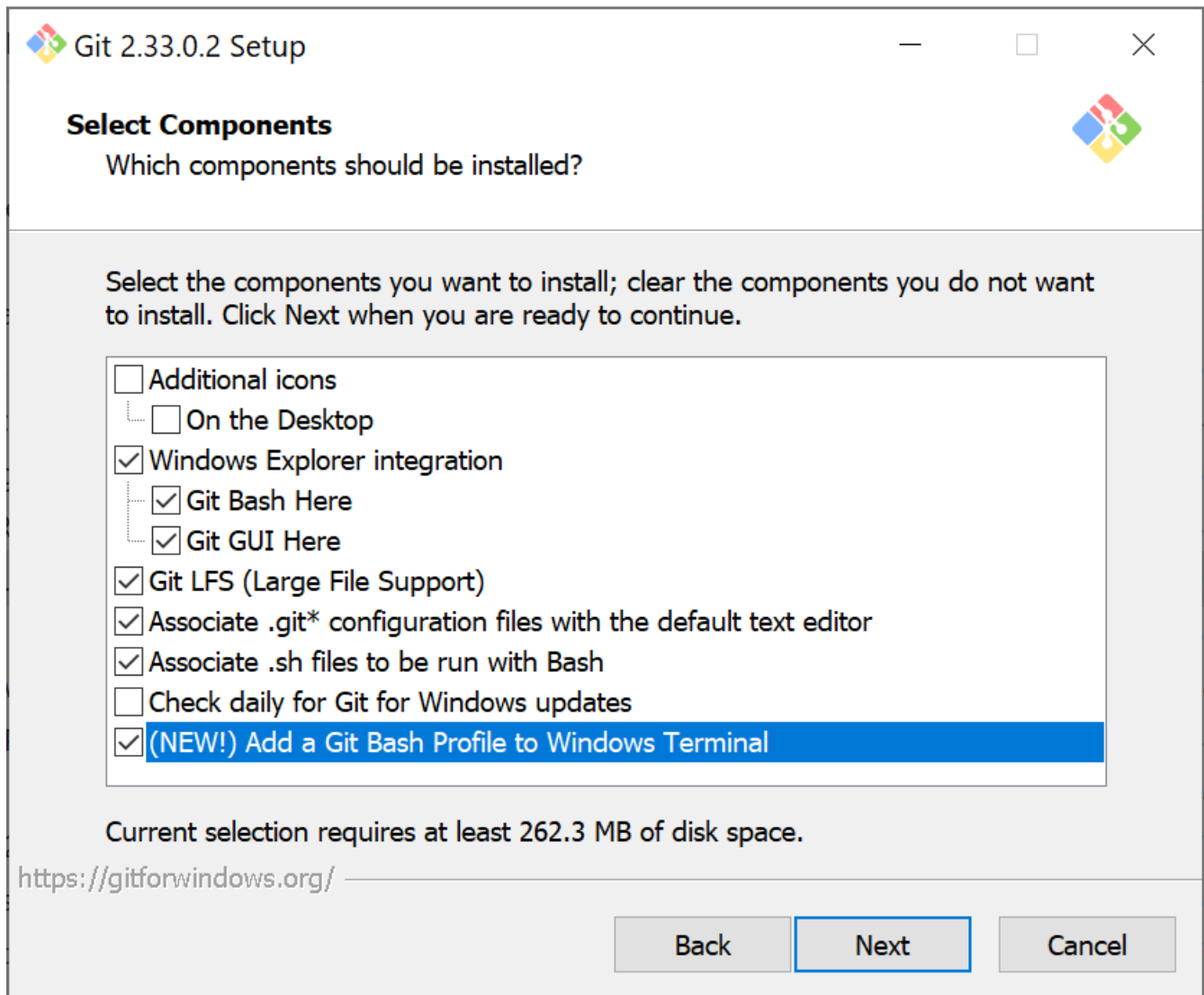
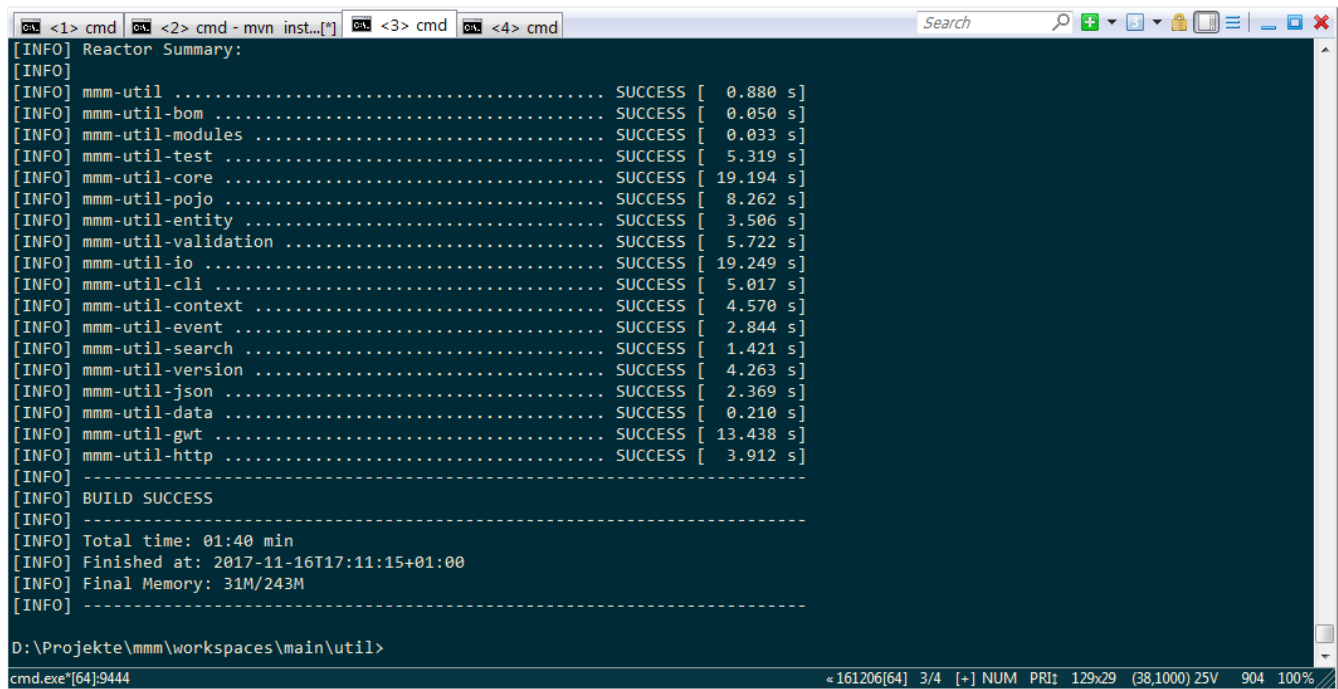


Figure 5. Integration of git-bash into Windows-Terminal

ConEmu



```
[INFO] Reactor Summary:
[INFO] mmm-util ..... SUCCESS [ 0.880 s]
[INFO] mmm-util-bom ..... SUCCESS [ 0.050 s]
[INFO] mmm-util-modules ..... SUCCESS [ 0.033 s]
[INFO] mmm-util-test ..... SUCCESS [ 5.319 s]
[INFO] mmm-util-core ..... SUCCESS [ 19.194 s]
[INFO] mmm-util-pojo ..... SUCCESS [ 8.262 s]
[INFO] mmm-util-entity ..... SUCCESS [ 3.506 s]
[INFO] mmm-util-validation ..... SUCCESS [ 5.722 s]
[INFO] mmm-util-io ..... SUCCESS [ 19.249 s]
[INFO] mmm-util-cli ..... SUCCESS [ 5.017 s]
[INFO] mmm-util-context ..... SUCCESS [ 4.570 s]
[INFO] mmm-util-event ..... SUCCESS [ 2.844 s]
[INFO] mmm-util-search ..... SUCCESS [ 1.421 s]
[INFO] mmm-util-version ..... SUCCESS [ 4.263 s]
[INFO] mmm-util-json ..... SUCCESS [ 2.369 s]
[INFO] mmm-util-data ..... SUCCESS [ 0.210 s]
[INFO] mmm-util-gwt ..... SUCCESS [ 13.438 s]
[INFO] mmm-util-http ..... SUCCESS [ 3.912 s]
[INFO] -----
[INFO] BUILD SUCCESS
[INFO] -----
[INFO] Total time: 01:40 min
[INFO] Finished at: 2017-11-16T17:11:15+01:00
[INFO] Final Memory: 31M/243M
[INFO] -----

D:\Projekte\mmm\workspaces\main\util>
```

Figure 6. Tabs for CMD

devonfw-ide

2.2.4. Windows Helpers

Handle passwords

Real text editor

notepad

Real compression tool

Smarter clipboard

PowerToys

Sysinternals Tools

Cope with file locks

Create symbolic links

Linux

X11

Keyboard Freak

```
^<::Send {U+00AB}  
^+<::Send {U+00BB}
```

`[ctrl][<]` `[ctrl][>]` `[ctrl][shift][<]`

Paint anywhere on your desktop

Analyze graphs

(.tgf)

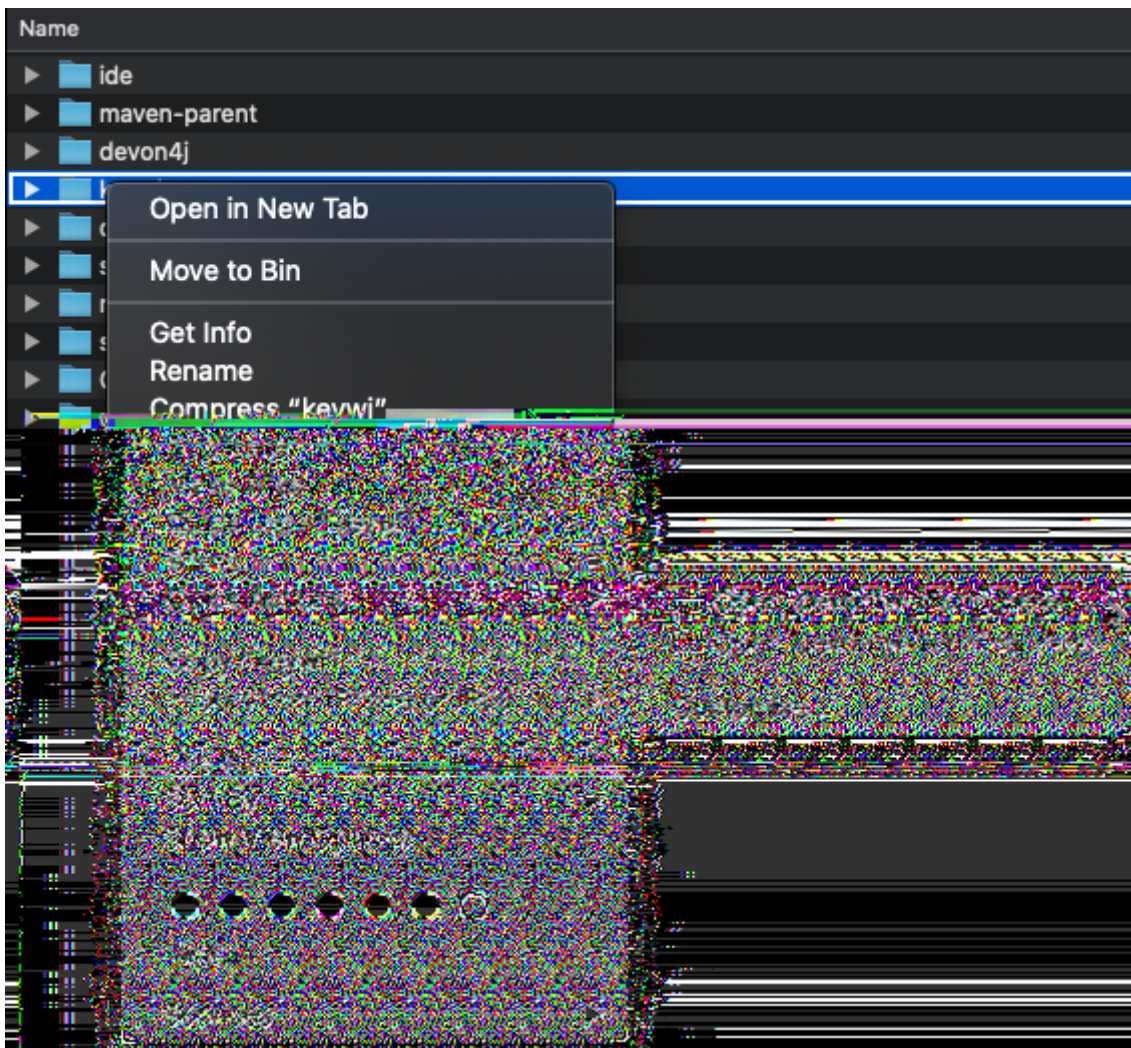
Up your screen capture game

Fast Search in Windows

2.3. MacOS Tooling

2.3.1. Finder

devonfw-ide



devonfw-ide

[control]

Finder

Quick-Actions

Open devonfw-Terminal here

```
mvn -v
```

Terminal.app

system/mac/terminal/Open_devonfw-Terminal_here.workflow

\${DEVON_IDE_HOME}

App Store

system/mac/iterm/Open_devonfw-

iTerm_here.workflow

2.3.2. Keyboard

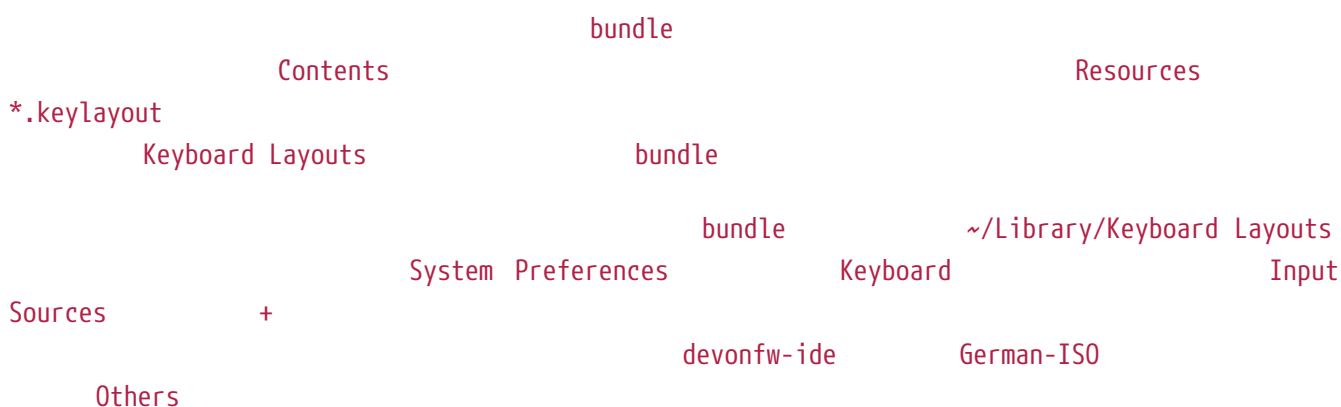
Home End

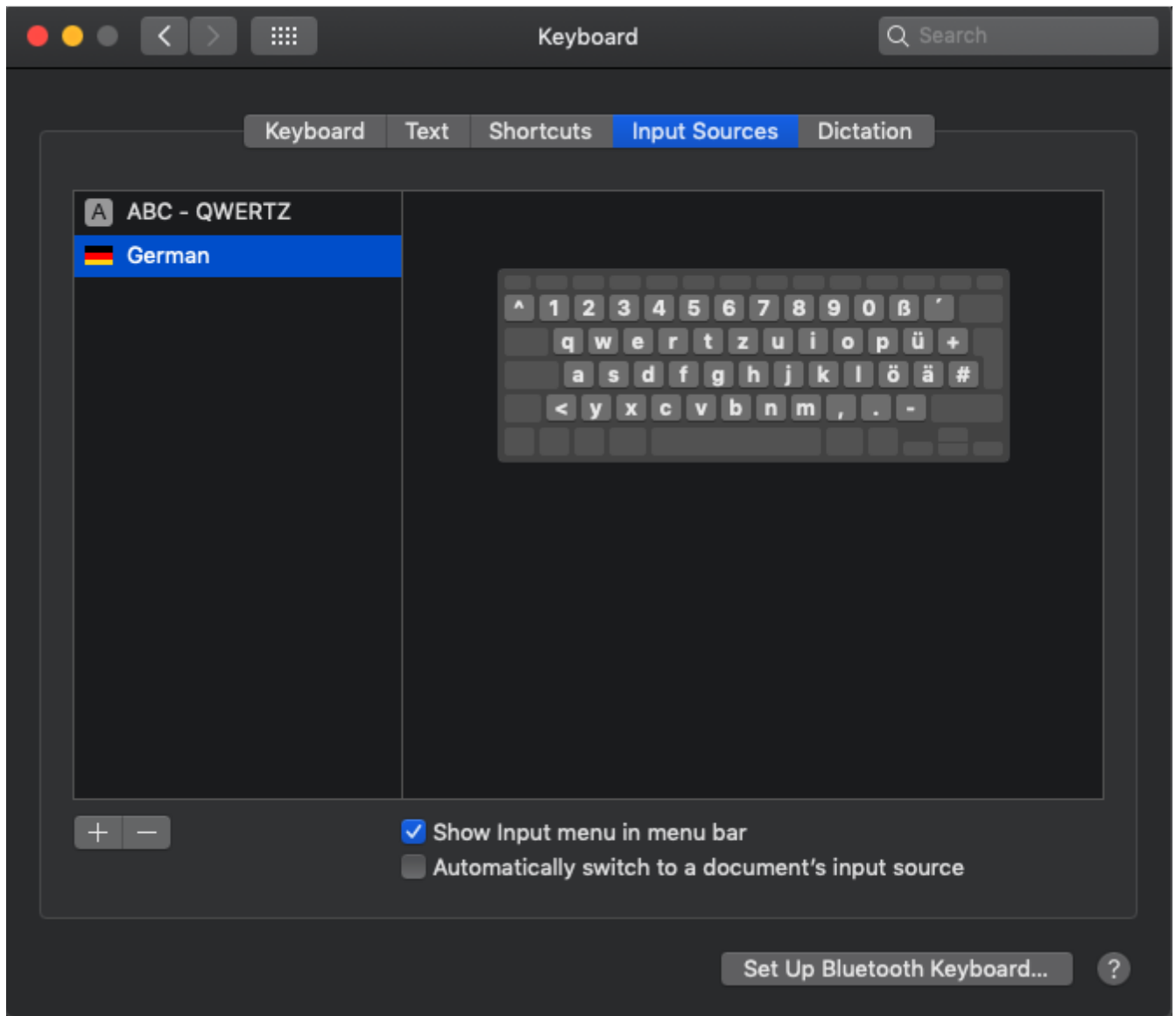
Alt Gr

system/mac/keyboard/install-mac-keyboard-support.sh

\${DEVON_IDE_HOME}

Keyboard Layouts





Alt Gr

Pos1 End

*.keylayout

dmg

Documentation

Resources

Key Bindings

system/mac/keyboard/KeyBindings

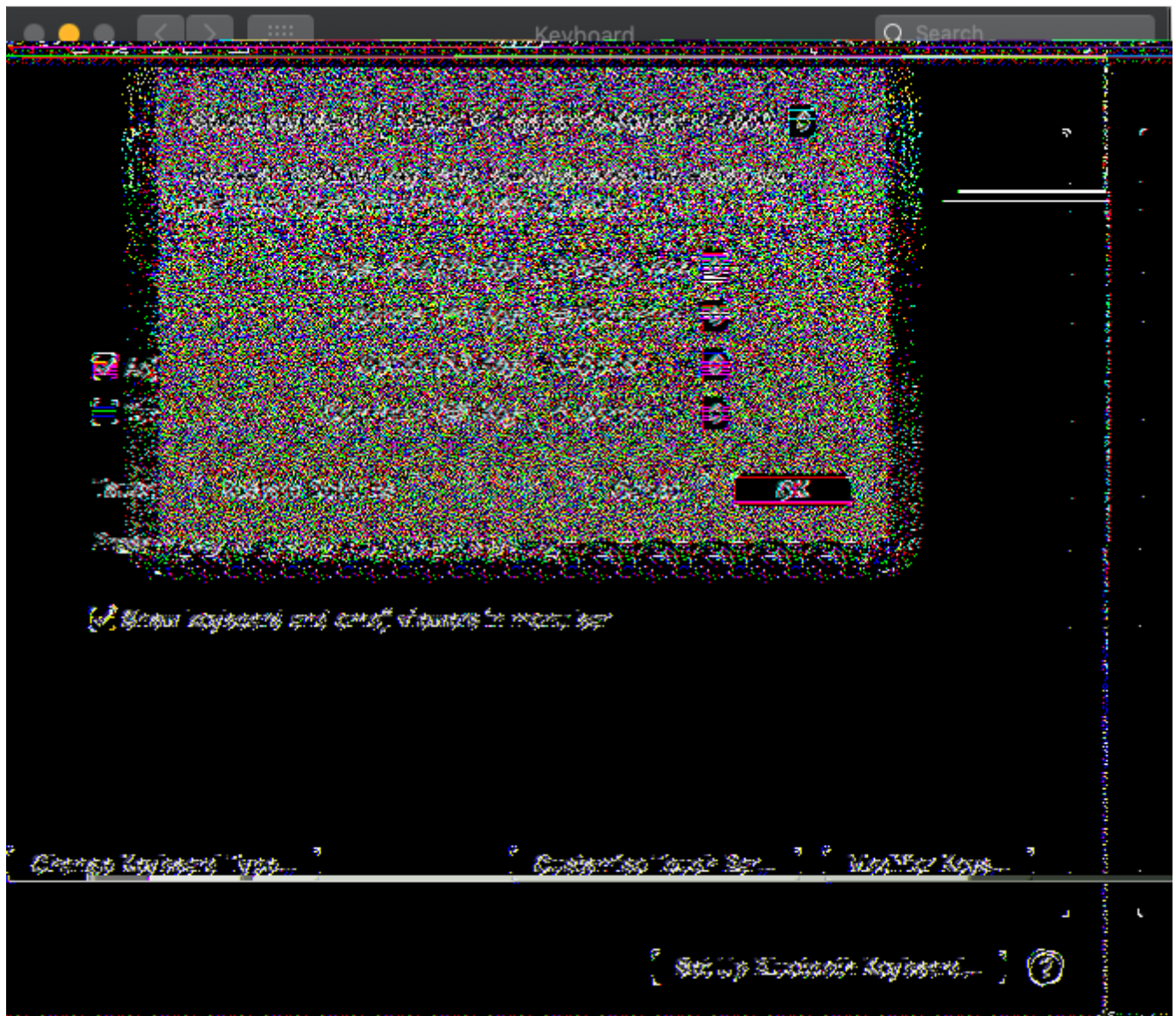
~/Library

```
cd system/mac/keyboard/
cp -r KeyBindings ~/Library
```

Home Pos1 End Shift
 Command Command
 Shift
 Command < <<

Switch Control and Command

Control Option System Preferences Keyboard
 Modifier Keys...
 Control Option



Control Space

Spotlight Search

The screenshot shows the Eclipse IDE Preferences dialog, specifically the 'Keys' tab. The 'General' section is expanded, showing the 'Keys' sub-section. The 'Export' button is highlighted. The file path for the keybindings is shown as 'system/mac/keyboard/Eclipse/eclipse-mac-keybindings.epf'.

Simple Modifications

Complex Modifications

*.json

karabiner

~/.config

```
cd system/mac/keyboard/  
cp karabiner/assets/complex_modifications/*.json  
~/.config/karabiner/assets/complex_modifications/
```

Complex Modifications

+ Add rule

2.4. Linux Tooling

2.5. Lombok

devon4j

2.5.1. Lombok in Eclipse

```
devon eclipse add-plugin lombok
```

false true

plugin_active

2.5.2. Lombok for VS-Code

```
devon vscode add-plugin lombok
```


	plugin_active	false	true
--	---------------	-------	------

2.5.3. Lombok for IntelliJ

devonfw-ide

3. Support

3.1. Migration from oasp4j-ide

devonfw-ide		
ide	oasp4j-ide	devonfw-

3.1.1. Get familiar with devonfw-ide

	devonfw-ide	
	setup	
		devon

3.1.2. Migration of existing oasp4j-ide installation

	devonfw-ide-scripts	
setup		
	settings	devonfw-ide
	devon	
	devon.properties	
	variables[-customized][.bat]	

3.1.3. Hints for users after migration

Table 35. Comparison of commands

oasp4j-ide command	devonfw-ide command	Comment
create-or-update-workspace	devon eclipse ws-update	devon eclipse devon intellij devon vscode
create-or-update-workspace <<workspace>>	cd <<workspace>> && devon eclipse ws-update	
update-all-workspaces	devon eclipse --all ws-update	
create-or-update-workspace-vs	devon vscode ws-update	
devcon workspace create <<workspace>>	<<workspace>> cd workspaces && mkdir examples	devon eclipse --all create- script
scripts/update-eclipse- workspace-settings	devon eclipse ws-reverse	--new devon eclipse ws-reverse-add
devcon project build devcon devon4j build devcon devon4ng build	devon build	
devcon devon4j create	devon java create	
devcon devon4ng create	devon ng create	
devcon system * devcon dist *	setup devon ide setup	
console.bat		open devonfw CMD here
devcon help	devon help	
devcon doc		

3.2. License

devonfw-ide

inclusion

directly included
devonfw-ide
default setup
setup
optional

Table 36. Third party components

Component	Inclusion	License

Component	Inclusion	License

3.2.1. Apache Software License - Version 2.0

Apache License
Version 2.0, January 2004
<http://www.apache.org/licenses/>

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