

## Android

Component	Usage	Component Link	License Agreement
'com.google.code.gson: gson:2.6.2'	Json parser	<a href="https://github.com/google/gson">https://github.com/google/gson</a>	Apache License v2.0 <a href="https://github.com/google/gson/blob/master/LICENSE">https://github.com/google/gson/blob/master/LICENSE</a>
'com.alibaba:fastjson: 1.1.67.android'	Json parser	<a href="https://github.com/alibaba/fastjson">https://github.com/alibaba/fastjson</a>	Apache License v2.0 <a href="https://github.com/alibaba/fastjson/blob/master/license.txt">https://github.com/alibaba/fastjson/blob/master/license.txt</a>
'com.lzy.net:okgo:3.0.4'	Network requests	<a href="https://github.com/jeasonlzy/okhttp-OkGo">https://github.com/jeasonlzy/okhttp-OkGo</a>	Apache License v2.0 <a href="https://github.com/jeasonlzy/okhttp-OkGo/blob/master/LICENSE">https://github.com/jeasonlzy/okhttp-OkGo/blob/master/LICENSE</a>
'org.eclipse.paho:org.eclipse. paho.client.mqttv3:1.+'	Mqtt communication	<a href="https://mvnrepository.com/artifact/org.eclipse.paho/org.eclipse.paho.client.mqttv3">https://mvnrepository.com/artifact/org.eclipse.paho/org.eclipse.paho.client.mqttv3</a>	Eclipse Public License - Version 1.0 <a href="http://www.eclipse.org/org/documents/epl-v10.php">http://www.eclipse.org/org/documents/epl-v10.php</a>
'element-connector -2.0.0-M3.jar'	LAN communication	<a href="https://github.com/eclipse/californium">https://github.com/eclipse/californium</a>	Dual License:  Eclipse Distribution License - v 1.0 Eclipse Public License - v 1.0 <a href="https://github.com/eclipse/californium/blob/master/LICENSE">https://github.com/eclipse/californium/blob/master/LICENSE</a>
californium-core -2.0.0-M3.jar	LAN communication	<a href="https://github.com/eclipse/californium">https://github.com/eclipse/californium</a>	Dual License:  Eclipse Distribution License - v 1.0 Eclipse Public License - v 1.0 <a href="https://github.com/eclipse/californium/blob/master/LICENSE">https://github.com/eclipse/californium/blob/master/LICENSE</a>

## iOS

Component	Usage	Component Link	License Agreement
MQTTClient	MQTT	<a href="https://github.com/novastone-media/MQTT-Client-Framework">https://github.com/novastone-media/MQTT-Client-Framework</a>	Eclipse Public License - v 1.0 <a href="https://github.com/novastone-media/MQTT-Client-Framework/blob/master/LICENSE">https://github.com/novastone-media/MQTT-Client-Framework/blob/master/LICENSE</a>
GCDAsyncSocket GCDAsyncUdpSocket	TCP/UDP	<a href="https://github.com/robbiehanson/CocoaAsyncSocket">https://github.com/robbiehanson/CocoaAsyncSocket</a>	BSD License <a href="https://github.com/robbiehanson/CocoaAsyncSocket/blob/master/LICENSE.txt">https://github.com/robbiehanson/CocoaAsyncSocket/blob/master/LICENSE.txt</a>
Coap	CoAP	<a href="https://github.com/stuffrabit/iCoAP">https://github.com/stuffrabit/iCoAP</a>	MIT <a href="https://github.com/stuffrabit/iCoAP/blob/master/LICENSE">https://github.com/stuffrabit/iCoAP/blob/master/LICENSE</a>

## Cloud

Component	Usage	Component Link	License Agreement
amqp	Timer	<a href="https://github.com/celery/py-amqp/">https://github.com/celery/py-amqp/</a>	BSD <a href="https://github.com/celery/py-amqp/blob/master/LICENSE">https://github.com/celery/py-amqp/blob/master/LICENSE</a>
aniso8601	Time zone conversion	<a href="https://github.com/sloanlance/aniso8601">https://github.com/sloanlance/aniso8601</a>	<a href="https://github.com/sloanlance/aniso8601/blob/master/LICENSE">https://github.com/sloanlance/aniso8601/blob/master/LICENSE</a>
awscli	AWS SDK	<a href="https://github.com/shlomoswidler/awscli">https://github.com/shlomoswidler/awscli</a>	Apache License 2.0 <a href="https://github.com/shlomoswidler/awscli/blob/master/LICENSE">https://github.com/shlomoswidler/awscli/blob/master/LICENSE</a>
billiard	Timer	<a href="https://github.com/celery/billiard">https://github.com/celery/billiard</a>	BSD <a href="https://github.com/celery/billiard/blob/master/LICENSE.txt">https://github.com/celery/billiard/blob/master/LICENSE.txt</a>
boto3	AWS SDK	<a href="https://github.com/boto/boto3">https://github.com/boto/boto3</a>	Apache License 2.0 <a href="https://github.com/boto/boto3/blob/develop/LICENSE">https://github.com/boto/boto3/blob/develop/LICENSE</a>
botocore	AWS SDK	<a href="https://github.com/boto/botocore">https://github.com/boto/botocore</a>	Apache License 2.0 <a href="https://github.com/boto/botocore/blob/develop/LICENSE.txt">https://github.com/boto/botocore/blob/develop/LICENSE.txt</a>

celery	Timer	<a href="https://github.com/celery/celery">https://github.com/celery/celery</a>	BSD <a href="https://github.com/celery/celery/blob/master/LICENSE">https://github.com/celery/celery/blob/master/LICENSE</a>
certifi	SSL/TLS authentication	<a href="https://github.com/certifi/python-certifi">https://github.com/certifi/python-certifi</a>	MPL-2.0 <a href="https://github.com/certifi/python-certifi/blob/master/LICENSE">https://github.com/certifi/python-certifi/blob/master/LICENSE</a>
chardet	transcoding	<a href="https://github.com/chardet/chardet">https://github.com/chardet/chardet</a>	LGPL <a href="https://github.com/chardet/chardet/blob/master/LICENSE">https://github.com/chardet/chardet/blob/master/LICENSE</a>
click	Command line tool	<a href="https://github.com/pallets/click">https://github.com/pallets/click</a>	<a href="https://github.com/pallets/click/blob/master/LICENSE">https://github.com/pallets/click/blob/master/LICENSE</a>
colorama	Command line tool	<a href="https://github.com/tartley/colorama">https://github.com/tartley/colorama</a>	BSD <a href="https://github.com/tartley/colorama/blob/master/LICENSE.txt">https://github.com/tartley/colorama/blob/master/LICENSE.txt</a>
Flask	Web framework	<a href="https://github.com/pallets/flask">https://github.com/pallets/flask</a>	BSD <a href="https://github.com/pallets/flask/blob/master/LICENSE">https://github.com/pallets/flask/blob/master/LICENSE</a>
Flask-Cors	Web framework	<a href="https://github.com/corydolphin/flask-cors">https://github.com/corydolphin/flask-cors</a>	MIT <a href="https://github.com/corydolphin/flask-cors/blob/master/LICENSE">https://github.com/corydolphin/flask-cors/blob/master/LICENSE</a>
flask-dynamo	Dynamo ORM	<a href="http://www.rdegges.com">http://www.rdegges.com</a>	<a href="https://github.com/rdegges/flask-dynamo/blob/master/UNLICENSE">https://github.com/rdegges/flask-dynamo/blob/master/UNLICENSE</a>
Flask-RESTful	Web framework	<a href="http://flask-restful.readthedocs.io">http://flask-restful.readthedocs.io</a>	BSD <a href="https://github.com/flask-restful/flask-restful/blob/master/LICENSE">https://github.com/flask-restful/flask-restful/blob/master/LICENSE</a>
Flask-WTF	Web framework	<a href="https://flask-wtf.readthedocs.io/">https://flask-wtf.readthedocs.io/</a>	BSD <a href="https://github.com/lepture/flask-wtf/blob/master/LICENSE">https://github.com/lepture/flask-wtf/blob/master/LICENSE</a>
functools32	Python version compatibility	<a href="http://pypi.python.org/pypi/functools32">http://pypi.python.org/pypi/functools32</a>	PSF license
futures	Web framework	<a href="https://github.com/ross/requests-futures">https://github.com/ross/requests-futures</a>	PSF <a href="https://github.com/ross/requests-futures/blob/master/LICENSE">https://github.com/ross/requests-futures/blob/master/LICENSE</a>
idna	DNS	<a href="https://github.com/kjd/idna">https://github.com/kjd/idna</a>	BSD-like <a href="https://github.com/kjd/idna/blob/master/LICENSE.rst">https://github.com/kjd/idna/blob/master/LICENSE.rst</a>

itsdangerous	Security	<a href="https://pythonhosted.org/itsdangerous/">https://pythonhosted.org/itsdangerous/</a>	<a href="https://github.com/pallets/itsdangerous/blob/master/LICENSE">https://github.com/pallets/itsdangerous/blob/master/LICENSE</a>
Jinja2	Web framework	<a href="http://jinja.pocoo.org/">http://jinja.pocoo.org/</a>	BSD <a href="https://github.com/pallets/jinja/blob/master/LICENSE">https://github.com/pallets/jinja/blob/master/LICENSE</a>
jmespath	JSON	<a href="http://jmespath.org">http://jmespath.org</a>	MIT
jsonschema	JSON	<a href="https://python-jsonschema.readthedocs.io">https://python-jsonschema.readthedocs.io</a>	MIT
kombu	Timer	<a href="http://kombu.readthedocs.org/">http://kombu.readthedocs.org/</a>	BSD
MarkupSafe	transcoding	<a href="https://www.palletsprojects.com/p/mar...">https://www.palletsprojects.com/p/mar...</a>	BSD <a href="https://github.com/pallets/markupsafe/blob/master/LICENSE.rst">https://github.com/pallets/markupsafe/blob/master/LICENSE.rst</a>
oauthlib	Oauth authentication	<a href="https://github.com/oauthlib/oauthlib">https://github.com/oauthlib/oauthlib</a>	BSD <a href="https://github.com/oauthlib/oauthlib/blob/master/LICENSE">https://github.com/oauthlib/oauthlib/blob/master/LICENSE</a>
passlib	encryption	<a href="https://github.com/wushuyi/passlib">https://github.com/wushuyi/passlib</a>	BSD <a href="https://github.com/wushuyi/passlib/blob/master/LICENSE">https://github.com/wushuyi/passlib/blob/master/LICENSE</a>
pyasn1	Encode/decode	<a href="http://snmplabs.com/pyasn1">http://snmplabs.com/pyasn1</a>	MIT <a href="https://github.com/etingof/pyasn1/blob/master/LICENSE.rst">https://github.com/etingof/pyasn1/blob/master/LICENSE.rst</a>
PyJWT	JWT	<a href="https://pyjwt.readthedocs.io">https://pyjwt.readthedocs.io</a>	MIT <a href="https://github.com/jpadilla/pyjwt/blob/master/LICENSE">https://github.com/jpadilla/pyjwt/blob/master/LICENSE</a>
pynamodb	Dynamo ORM	<a href="http://pynamodb.readthedocs.io">http://pynamodb.readthedocs.io</a>	MIT <a href="https://github.com/pynamodb/PynamoDB/blob/master/LICENSE">https://github.com/pynamodb/PynamoDB/blob/master/LICENSE</a>
python-dateutil	time	<a href="http://labix.org/python-dateutil">http://labix.org/python-dateutil</a>	Simplified BSD
pytz	timezone	<a href="https://github.com/newvem/pytz">https://github.com/newvem/pytz</a>	MIT <a href="https://github.com/newvem/pytz/blob/master/LICENSE.txt">https://github.com/newvem/pytz/blob/master/LICENSE.txt</a>
PyYAML	YAML	<a href="http://pyyaml.org/wiki/PyYAML">http://pyyaml.org/wiki/PyYAML</a>	MIT
requests	HTTP request	<a href="http://python-requests.org">http://python-requests.org</a>	Apache 2.0 <a href="https://github.com/requests/requests/blob/master/LICENSE">https://github.com/requests/requests/blob/master/LICENSE</a>

requests-oauthlib	Oauth authentication	<a href="https://requests-oauthlib.readthedocs.io/en/latest/">https://requests-oauthlib.readthedocs.io/en/latest/</a>	ISC <a href="https://github.com/requests/requests-oauthlib/blob/master/LICENSE">https://github.com/requests/requests-oauthlib/blob/master/LICENSE</a>
rsa	encryption	<a href="https://stuvel.eu/rsa">https://stuvel.eu/rsa</a>	ASL 2 <a href="https://github.com/sybre/stuvel/python-rsa/blob/master/LICENSE">https://github.com/sybre/stuvel/python-rsa/blob/master/LICENSE</a>
s3transfer	AWS S3	<a href="https://github.com/boto/s3transfer">https://github.com/boto/s3transfer</a>	Apache License 2.0 <a href="https://github.com/boto/s3transfer/blob/develop/LICENSE.txt">https://github.com/boto/s3transfer/blob/develop/LICENSE.txt</a>
six	Python2 and python3 compatibility	<a href="http://pypi.python.org/pypi/six/">http://pypi.python.org/pypi/six/</a>	MIT <a href="https://github.com/benjaminp/six/blob/master/LICENSE">https://github.com/benjaminp/six/blob/master/LICENSE</a>
urllib3	http client	<a href="https://urllib3.readthedocs.io/">https://urllib3.readthedocs.io/</a>	MIT <a href="https://github.com/urllib3/urllib3/blob/master/LICENSE.txt">https://github.com/urllib3/urllib3/blob/master/LICENSE.txt</a>
vine	Timer	<a href="http://github.com/celery/vine">http://github.com/celery/vine</a>	BSD <a href="https://github.com/celery/vine/blob/master/LICENSE">https://github.com/celery/vine/blob/master/LICENSE</a>
Werkzeug	deployment	<a href="https://www.palletsprojects.org/p/werkzeug/">https://www.palletsprojects.org/p/werkzeug/</a>	BSD
WTForms	Form validation	<a href="https://wtforms.readthedocs.io/">https://wtforms.readthedocs.io/</a>	BSD <a href="https://github.com/wtforms/wtforms/blob/master/LICENSE.rst">https://github.com/wtforms/wtforms/blob/master/LICENSE.rst</a>
apns	IOS notification	<a href="https://github.com/djacobs/PyAPNs">https://github.com/djacobs/PyAPNs</a>	MIT <a href="https://github.com/djacobs/PyAPNs/blob/master/LICENSE">https://github.com/djacobs/PyAPNs/blob/master/LICENSE</a>
eventlet	concurrency	<a href="http://eventlet.net">http://eventlet.net</a>	<a href="https://github.com/eventlet/eventlet/blob/master/LICENSE">https://github.com/eventlet/eventlet/blob/master/LICENSE</a>
dvajs	API framework	<a href="https://dvajs.com/">https://dvajs.com/</a>	MIT <a href="https://github.com/dvajs/dva/blob/master/LICENSE">https://github.com/dvajs/dva/blob/master/LICENSE</a>

## Front

dvajs	API framework	<a href="https://dvajs.com/">https://dvajs.com/</a>	MIT <a href="https://github.com/dvajs/dva/blob/master/LICENSE">https://github.com/dvajs/dva/blob/master/LICENSE</a>
ant design of react	UI component and interaction with backend	<a href="https://ant.design/index-cn">https://ant.design/index-cn</a>	MIT <a href="https://github.com/ant-design/ant-design/blob/master/LICENSE">https://github.com/ant-design/ant-design/blob/master/LICENSE</a>
axios	HTTP lib based on Promise	<a href="https://www.npmjs.com/package/axios">https://www.npmjs.com/package/axios</a>	MIT <a href="https://github.com/axios/axios/blob/master/LICENSE">https://github.com/axios/axios/blob/master/LICENSE</a>
babel-plugin-import	Load dependency on demand	<a href="https://www.npmjs.com/package/babel-plugin-import">https://www.npmjs.com/package/babel-plugin-import</a>	MIT <a href="https://github.com/ant-design/babel-plugin-import">https://github.com/ant-design/babel-plugin-import</a>
babel-plugin-module-resolver	Module resolver plugin	<a href="https://cnpmjs.org/package/babel-plugin-module-resolver">https://cnpmjs.org/package/babel-plugin-module-resolver</a>	MIT <a href="https://github.com/tleunen/babel-plugin-module-resolver/blob/master/LICENSE.md">https://github.com/tleunen/babel-plugin-module-resolver/blob/master/LICENSE.md</a>
babel-plugin-transform-runtime babel-plugin-transform-class-properties babel-runtime	JavaScript compiler	<a href="https://babeljs.io/docs/en/">https://babeljs.io/docs/en/</a>	MIT <a href="https://github.com/babel/babel/blob/master/LICENSE">https://github.com/babel/babel/blob/master/LICENSE</a>
echarts react-echarts	Personalized data visualizer	<a href="http://echarts.baidu.com/">http://echarts.baidu.com/</a>	MIT <a href="https://github.com/hustcc/echarts-for-react/blob/master/LICENSE">https://github.com/hustcc/echarts-for-react/blob/master/LICENSE</a>
react	Construct GUI	<a href="https://react.docschina.org/">https://react.docschina.org/</a>	MIT <a href="https://github.com/facebook/react/blob/master/LICENSE">https://github.com/facebook/react/blob/master/LICENSE</a>
react-dom	DOM Rendering	<a href="https://www.npmjs.com/package/react-dom">https://www.npmjs.com/package/react-dom</a>	MIT <a href="https://github.com/facebook/react/blob/master/LICENSE">https://github.com/facebook/react/blob/master/LICENSE</a>
react-s3-uploader	Upload S3	<a href="https://github.com/odysseyscience/react-s3-uploader">https://github.com/odysseyscience/react-s3-uploader</a>	MIT <a href="https://github.com/odysseyscience/react-s3-uploader/blob/master/LICENSE.md">https://github.com/odysseyscience/react-s3-uploader/blob/master/LICENSE.md</a>
eslint	Code detection tool	<a href="https://cn.eslint.org/">https://cn.eslint.org/</a>	MIT <a href="https://github.com/eslint/eslint/blob/master/LICENSE">https://github.com/eslint/eslint/blob/master/LICENSE</a>

## Lambda

Component	Usage	Component Link	License Agreement
boto3	AWS SDK	<a href="https://github.com/boto/boto3">https://github.com/boto/boto3</a>	Apache License 2.0 <a href="https://github.com/boto/boto3/blob/develop/LICENSE">https://github.com/boto/boto3/blob/develop/LICENSE</a>
botocore	AWS SDK	<a href="https://github.com/boto/botocore">https://github.com/boto/botocore</a>	Apache License 2.0 <a href="https://github.com/boto/botocore/blob/develop/LICENSE.txt">https://github.com/boto/botocore/blob/develop/LICENSE.txt</a>
pynamodb	Dynamo ORM	<a href="http://pynamodb.readthedocs.io">http://pynamodb.readthedocs.io</a>	MIT <a href="https://github.com/pynamodb/PynamoDB/blob/master/LICENSE">https://github.com/pynamodb/PynamoDB/blob/master/LICENSE</a>
cryptography	Signature valiation	<a href="https://github.com/pyca/cryptography">https://github.com/pyca/cryptography</a>	BSD or Apache License, Version 2.0 <a href="https://github.com/pyca/cryptography/blob/master/LICENSE">https://github.com/pyca/cryptography/blob/master/LICENSE</a>
requests	HTTP	<a href="http://python-requests.org">http://python-requests.org</a>	Apache 2.0 <a href="https://github.com/requests/requests/blob/master/LICENSE">https://github.com/requests/requests/blob/master/LICENSE</a>