

Oracle® Communications

Licensing Information User Manual



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ORACLE®

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B GNU General Public License, Version 2 (GPL-2.1)

C GNU Lesser General Public License, version 3 (LGPL-3)

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E	Apache License, version 2.0 (Apache 2.0)
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G	The MIT License (MIT)
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I	ACE- 6.4.7 License
J	ECLIPSE 1.0 License
K	PHP License
L	JET License
M	COMMON DEVELOPMENT AND DISTRIBUTION LICENSE Version 1.0
N	BSD License and JSON License
O	JDOM 2.0.5 License
P	Artistic License
Q	The bzip2 License

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U Creative Commons Attribution License, Attribution 2.5

V Node.js License

W GNU General Public License v3 (GPL v3)

X Zope Public License (ZPL) Version 2.0

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Introduction

This Licensing Information document is a part of the product or program documentation under the terms of your Oracle license agreement and is intended to help you understand the program editions, entitlements, restrictions, prerequisites, special license rights, and/or separately licensed third party technology terms associated with the Oracle software program(s) covered by this document (the "Program(s)"). Entitled or restricted use products or components identified in this document that are not provided with the particular Program may be obtained from the Oracle Software Delivery Cloud website (<https://edelivery.oracle.com>) or from media Oracle may provide. If you have a question about your license rights and obligations, please contact your Oracle sales representative, review the information provided in Oracle's Software Investment Guide (<http://www.oracle.com/us/corporate/pricing/software-investment-guide/index.html>), and/or contact the applicable Oracle License Management Services representative listed on <http://www.oracle.com/us/corporate/license-management-services/index.html>.

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Licensing Information

Description of Product Editions and Permitted Features

Prerequisite Products

Entitled Products and Restricted Use Licenses

Product	Sub product	Licensing Information
Oracle Communications Cloud Native Core	Oracle Communications Cloud Native Core, Network Function Cloud Native Environment - per 25K Active Subscribers	Description: This subproduct adds the following features to the Oracle Communications Cloud Native Core. The Network Function Cloud Native Environment provides tools and capabilities to run cloud native network functions in the network. Prerequisites: Any one of the following licenses is prerequisite to license and use Oracle Communications Cloud Native Core , Network Function Cloud Native Environment - per 25K Active Subscribers : • Oracle Communications Cloud Native Core, Authentication Server Function - per 25K Active Subscribers • Oracle Communications Cloud Native Core, Binding Support Function - per 25K Active Subscribers • Oracle Communications Cloud Native Core, Converged Policy - per 25K Active Subscribers • Oracle Communications Cloud Native Core, Converged Signaling - per 25K Active Subscribers • Oracle Communications Cloud Native Core, Diameter Routing Agent - per 25K Active Subscribers • Oracle Communications Cloud Native Core, InterWorking and Mediation Function - per 25K Active Subscribers • Oracle Communications Cloud Native Core, Network Exposure Function - per 25K Active Subscribers • Oracle Communications Cloud Native Core , Network Repository Function - per 25K Active Subscribers • Oracle Communications Cloud Native Core, Network Slice Selection Function - per 25K Active Subscribers • Oracle Communications Cloud Native Core, Policy Control Function - per 25K Active Subscribers • Oracle Communications Cloud Native Core, Policy and Charging Rules Function - per 25K Active Subscribers • Oracle Communications Cloud Native Core, Routing and Selection Domain - per 25K Active Subscribers • Oracle Communications Cloud Native Core, Security Edge Protection Proxy - per 25K Active Subscribers • Oracle Communications Cloud Native Core , Service Communication Proxy - per 25K Active Subscribers • Oracle Communications Cloud Native Core, Unified Data Repository - per 25K Active Subscribers • Oracle Communications Cloud Native Core, Unified Data Management - per 25K Active Subscribers • Oracle Communications Cloud Native Core, Unstructured Data Storage Function - per 25K Active Subscribers

Product	Sub product	Licensing Information
	Oracle Communications Cloud Native Core, Authentication Server Function - per 25K Active Subscribers	Description: This subproduct adds the following features to the Oracle Communications Cloud Native Core. The Authentication Server Function (AUSF) is responsible of the primary authentication and key agreement procedures carried out to enable mutual authentication between UE and network. It provides keying material that can be used between the UE and network in subsequently security procedures. This license is based on per 25k active subscribers perpetual. Prerequisites: The following license is prerequisite to license and use Oracle Communications Cloud Native Core, Authentication Server Function - per 25K Active Subscribers: Oracle Communications Cloud Native Core, Unified Data Management - per 25K Active Subscribers
	Oracle Communications Cloud Native Core, Binding Support Function - per 25K Active Subscribers	Description: This subproduct adds the following features to the Oracle Communications Cloud Native Core. The Binding Support Function (BSF) provides session binding functionality, which ensures request for session reaches the relevant PCF holding the session information. This service: - Allows Network Function (NF) consumers to register, update and remove the binding information; and - Allows Network Function (NF) consumers to retrieve the binding information. Prerequisites: None
	Oracle Communications Cloud Native Core, Converged Policy - per 25K Active Subscribers	Description: This functionality provides the Right to Use the Cloud Native Policy and Charging Rules Function (cnPCRF) and Cloud Native Policy Control Function (PCF) NFs. The Policy Control Function (PCF) allows the customer to support centralized policy management in their 5G core network. Cloud Native Policy and Charging Rules Function (cnPCRF) includes 3GPP PCRF functionality per the Oracle statement of Compliance for OCPM Releases. Overall this converged license enables customers to perform Policy management for 4G and 5G Networks as a complete solution and also enables customers to transition subscribers from 4G to 5G over time. Prerequisites: None Entitled Products and Restricted Use Licenses : A license to Oracle Communications Cloud Native Core, Converged Policy - per 25K Active Subscribers includes a restricted use license to MySQL Cluster Carrier Grade Edition. MySQL Cluster Carrier Grade Edition may be used solely to deploy and run Oracle Communications Cloud Native Core, Converged Policy - per 25K Active Subscribers.

Product	Sub product	Licensing Information
	Oracle Communications Cloud Native Core, Converged Signaling - per 25K Active Subscribers	Description: This functionality provides the Right to Use the Cloud Native Diameter Routing Agent (cnDRA), Service Communication Proxy (SCP), Network Repository Function (NRF), and InterWorking and Mediation Function (IWF) NFs. It enables a smooth transition for operators from 4G to 5G over time. Prerequisites : None
	Oracle Communications Cloud Native Core, Diameter Routing Agent - per 25K Active Subscribers	Description: This subproduct adds the following features to the Oracle Communications Cloud Native Core. The Diameter Routing Agent (DRA) provides ability to route diameter messages between Network Functions (NF) in the 4G network Prerequisites: The following license is prerequisite to license and use Oracle Communications Cloud Native Core, Diameter Routing Agent - per 25K Active Subscribers: Oracle Communications Common Signaling - per Signaling Unit - per Message per Second
	Oracle Communications Cloud Native Core, InterWorking and Mediation Function - per 25K Active Subscribers	Description: This subproduct adds the following features to the Oracle Communications Cloud Native Core. The InterWorking and Mediation (IWF) Function provides Interworking and mediation function between HTTP ó HTTP and HTTP ó Diameter that allow access to the services and capabilities provided by network entities. Prerequisites: The following license is prerequisite to license and use Oracle Communications Cloud Native Core, InterWorking and Mediation Function - per 25K Active Subscribers: Customer must purchase a license of InterWorking and Mediation Function (IWF) for each separately purchased Network Function (NF) where the customer requires IWF whether deploying all functions on one node or on separate nodes. When licensed in the Routing and Selection offering, pricing includes the use of IWF for the following five functions deployed in the same node: Service Communication Proxy (SCP), Network Slice Selection Function (NSSF), Binding Support Function (BSF), Security Edge Protection Proxy (SEPP), and Network Exposure Function (NEF). IWF is not applicable to Network Repository Function (NRF).

Product	Sub product	Licensing Information
	Oracle Communications Cloud Native Core, Network Exposure Function - per 25K Active Subscribers	Description: This subproduct adds the following features to the Oracle Communications Cloud Native Core. The Network Exposure Function (NEF) provides RESTful APIs that allow access to the services and capabilities provided by network entities and securely exposed by NEF. The NEF Northbound interface supports the following procedures: • Procedures for Monitoring • Procedures for Device Triggering • Procedures for resource management of Background Data Transfer • Procedures for Communication Pattern Parameters Provisioning • Procedures for Packet Flow Description Management • Procedures for Traffic Influence Prerequisites: None
	Oracle Communications Cloud Native Core, Network Repository Function - per 25K Active Subscribers	Description: This subproduct adds the following features to the Oracle Communications Cloud Native Core. The Network Repository Function (NRF) supports management and discovery services and the management services allow for Network Function (NF) instances to be Introduced/Updated/Removed in the 5G core without manual configuration. More NRF developments will come as part of future releases. Prerequisites: None
	Oracle Communications Cloud Native Core, Network Slice Selection Function - per 25K Active Subscribers	Description: This subproduct adds the following features to the Oracle Communications Cloud Native Core. The Network Slice Selection Function (NSSF) provides an important capability to bring network resource utilization efficiency, deployment flexibility and support fast growing over the top (OTT) application and services . Prerequisites: None
	Oracle Communications Cloud Native Core, Policy Control Function - per 25K Active Subscribers	Description: This subproduct adds the following features to the Oracle Communications Cloud Native Core. The Policy Control Function (PCF) allows the customer to support centralized policy management in their 5G core network. It includes Network Access Selection, Access and Mobility Management, and Network Slice Selection Prerequisites: None. Entitled Products and Restricted Use Licenses : A license to Oracle Communications Cloud Native Core, Policy Control Function - per 25K Active Subscribers includes a restricted use license to MySQL Cluster Carrier Grade Edition. MySQL Cluster Carrier Grade Edition may be used solely to deploy and run Oracle Communications Cloud Native Core, Policy Control Function - per 25K Active Subscribers

Product	Sub product	Licensing Information
	Oracle Communications Cloud Native Core, Policy and Charging Rules Function - per 25K Active Subscribers	Description: This subproduct adds the following features to the Oracle Communications Cloud Native Core. The Policy and Charging Rules Function (PCRF) includes 3GPP PCRF functionality as per Oracle statement of Compliance for OCPM Releases. This license is based on the number of concurrent network access sessions allowed within a Policy Management network. A network access session is defined as the association between a user endpoint/device and an IP network. Network Access Sessions represent the peak concurrent sessions measured based on highest busy hour session load within a given Policy Management network. Prerequisites: None. Entitled Products and Restricted Use Licenses : A license to Oracle Communications Cloud Native Core, Policy and Charging Rules Function - per 25K Active Subscribers includes a restricted use license to MySQL Cluster Carrier Grade Edition. MySQL Cluster Carrier Grade Edition may be used solely to deploy and run Oracle Communications Cloud Native Core, Policy and Charging Rules Function - per 25K Active Subscribers
	Oracle Communications Cloud Native Core, Routing and Selection Domain - per 25K Active Subscribers	Description: Routing and Selection domain consists of six Cloud Native Core functions: Service Communication Proxy (SCP), Network Repository Function (NRF), Network Exposure Function (NEF), Network Slice Selection Function (NSSF), Security Edge Protection Proxy (SEPP), and InterWorking and Mediation Function (IWF). Prerequisites: None
	Oracle Communications Cloud Native Core, Security Edge Protection Proxy - per 25K Active Subscribers	Description: This subproduct adds the following features to the Oracle Communications Cloud Native Core. The Security Edge Protection Proxy (SEPP) is a nontransparent proxy that supports message filtering and policing on inter-PLMN control-plane interfaces and topology hiding for the PLMN network. A SEPP function should perform the firewall role for transactions between domains. Given that the SEPP is the point where integrity protection and encryption are applied, the SEPP has visibility into each aspect of a transaction. Prerequisites: None
	Oracle Communications Cloud Native Core, Service Communication Proxy - per 25K Active Subscribers	Description: This subproduct adds the following features to the Oracle Communications Cloud Native Core. The Service Communication Proxy (SCP) addresses introduction of 5G Service Based Architecture and the usage of HTTP/2 for signaling. Provides congestion control in cases of flooding and at the same time protect servers from being overloaded. Facilitates traffic prioritization to ensure that the higher priority traffic is addressed in overload situations Uniform Authorization/Authentication mechanism in the network Simplifies the network and provider better visibility into the health of the network. Reduces the connection mesh to a manageable number of connections, thereby decreasing the chances of failure. Prerequisites: None

Product	Sub product	Licensing Information
	Oracle Communications Cloud Native Core, Unified Data Management - per 25K Active Subscribers	Description: This subproduct adds the following features to the Oracle Communications Cloud Native Core. The Unified Data Management Function (UDM) is a functional entity that supports access to the data storage. It offers services to Access and Mobility Management Function (AMF), Session Management Function (SMF), Short Message Service Function (SMSF), Network Exposure Function (NEF), and Authentication Server Function (AUSF). The services include Subscription data storage, Context data management service, Authentication service in collaboration with AUSF. Subscription data management includes accessing the subscription data in the Unified Data Repository (UDR), delivering relevant data to the Network Functions (NFs) serving the UE (AMF, SMF) and updating the UE location and serving nodes (e.g. AMF) in the UDR. This license is based on per 25k active subscribers perpetual. Prerequisites: None
	Oracle Communications Cloud Native Core, Unified Data Repository - per 25K Active Subscribers	Description: This subproduct adds the following features to the Oracle Communications Cloud Native Core. The Unified Data Repository (UDR) is a functional entity that acts as a single logical repository of user data and is unique from Application Front End's perspective. Entities which do not store user data and that need to access user data stored in the UDR are collectively known as application front ends. Prerequisites: None
	Oracle Communications Cloud Native Core, Unstructured Data Storage Function - per 25K Active Subscribers	Description: This subproduct adds the following features to the Oracle Communications Cloud Native Core. The Unstructured Data Storage Function (UDSF) is a functional entity of 5G network where the Network Functions can store/retrieve "unstructured" data. It supports data storage for stateless network functions. This data is based on the state information of different NFs, intermediate representation of data crossing different radio technologies, session related data etc. This license is based on per 25k active subscribers perpetual. Prerequisites: None

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Third-Party Notices and/or Licenses

Commercial Software

Commercial software products or components distributed in Oracle Communications Cloud Native Core are identified in the following table along with the applicable licensing information

Provider	Component(s)	Licensing Information
N/A	N/A	N/A

Open Source or Other Separately Licensed Software

Required notices for open source or other separately licensed software products or components distributed in Oracle Communications Cloud Native Core are identified in the following sections along with the applicable licensing information. Additional notices and/or licenses may be found in the included documentation or readme files of the individual third party software.

The sections below identify the open source components used by each Oracle Communications Cloud Native Core subproduct. The licensing information can be found in section **Cloud Native Core Licensing Information**.

Network Function Cloud Native Environment 1.3.2 Components

dnsmasq 2.76-7	python-pip 8.1.2-7
Helm 2.9.1	Python-setuptools 0.9.8-7
Kubespary 2.10.3.1	wget 1.14-18

Binding Support Function 1.0.0 Components

HSQldb 2.4.1	OpenTracing Spring Jaeger Starter 0.1.4
HttpClient 4.5.7	OpenTracing Spring Web 0.3.2
jackson-datatype-joda 2.9.6	SLF4J-1.7.25
JavaScript Extension Toolkit (JET) 5.1.0	Spring Boot 2.1.2
Micrometer 1.0.5	Springfox 2.9.2

Diameter Routing Agent 1.0.0 Components

HttpClient 4.5.7	Micrometer 1.1.2
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InterWorking and Mediation Function 1.0.0 Components

commons-validator 1.6.0	OkHttp 3.13.1
Micrometer 1.1.2	-

Network Exposure Function 1.0.0 Components

Guava 27.0.1	Nginx 1.14.2
HSQldb 2.4.1	OpenTracing Spring Jaeger Starter 0.1.4
HttpClient 4.5.7	OpenTracing Spring Web 0.3.2
jackson-datatype-joda 2.9.6	SLF4J-1.7.25
JavaScript Extension Toolkit (JET) 5.1.0	Spring Boot 2.1.2
Kong 1.0.3	Springfox 2.9.2
Micrometer 1.0.5	-

Network Repository Function 1.2.0 Components

commons-validator 1.6.0	spring-boot-starter-log4j2 2.1.2
HttpClient 4.5.7	spring-boot-starter-undertow 2.1.2
ipaddress 5.0.2	Springfox 2.9.2
JSON-Java 20180813	Spring Security 5.1.5.RELEASE
OkHttp 3.13.1	springfox-swagger-ui 2.9.2
Spring Boot 2.1.2	

Network Slice Selection Function 1.0.0 Components

commons-validator 1.6.0	OkHttp 3.13.1
Guava 27.0.1	spring-boot-actuator 2.1.2
Micrometer 1.1.2	-

Policy Control Function 1.0.0 Components

Akka 2.5.17	lodash 4.17.11
allure2 2.8.0	Logback 1.2.3
AspectJ 1.9.1	Lombok 1.18.4
Blockly 1.20180904	Micrometer 1.0.5

Brave 5.6	micrometer-akka 0.9.0
brave-opentracing 0.33.10	mocha 5.2.0
caffeine 2.6.2	Mybatis Spring Boot Starter 1.3.2
Commons Codec 1.11	Nginx 1.14.2
Commons CSV 1.5	Node.js 10.15.0
Commons IO 2.6	OkHttp 3.13.1
commons-lang3- 3.8.1	OpenResty 1.13.6.2
Commons Pool 2.6.0	OpenTracing API for Java 0.31.0
DropWizard Metrics 4.0.2	opentracing-python 2.0.0
Flask 1.0.2	OpenTracing Spring Jaeger Starter 0.1.4
flask-cors 3.0.7	OpenTracing Spring Web 0.3.2
Flask-SQLAlchemy 2.3.2	Prometheus Client Python 0.5.0
Google Go 1.11.2	psutil 5.5.0
Groovy 2.5.0	Python 3.6.8
GSON 2.8.5	pyyaml 3.13
Guava 27.0	reactor-core 3.1.8.RELEASE
hapi 17.6.0	requests 2.21.0
HikariCP 3.2.0	SLF4J-1.7.25
HSQLDB 2.4.1	Spring Boot 2.1.1.RELEASE
HttpClient 4.5.7	Spring Cloud Stream 2.0.1.RELEASE
HttpCore 4.4.11	Spring Cloud Stream Binder Kafka 2.0.1.RELEASE
jackson-core 2.9.7	Springfox 2.9.2
jackson-datatype-joda 2.9.6	Spring Framework 5.1.3
jaeger-client-python 3.13.0	spring-kafka 2.1.10.RELEASE
JavaScript Extension Toolkit (JET) 5.1.0	WireMock 2.20.0
Jetty 9.4.14.v20181114	XStream 1.4.11.1
JsonPath 2.4.0	Zipkin 2.12.1
Kong 1.0.3	zipkin-reporter-java 2.7.15
LMAX-Exchange disruptor 3.4.2	-

Policy and Charging Rules Function 1.0.0 Components

AspectJ 1.9.1	LMAX-Exchange disruptor 3.4.2
Brave 5.6	Logback 1.2.3
brave-opentracing 0.33.10	Lombok 1.18.4
Commons CSV 1.6	Micrometer 1.1.4
Commons IO 2.6	OpenTracing API for Java 0.32.0
commons-lang3- 3.8.1	opentracing-spring-jaeger-cloud-starter 1.0.2
Commons Pool 2.6.1	OpenTracing Spring Web 1.1.1
DropWizard Metrics 4.0.5	SLF4J-1.7.26
Guava 27.0	Spring Boot 2.1.1.RELEASE
HttpClient 4.5.7	Spring Cloud Stream 2.0.1.RELEASE
HttpCore 4.4.11	Spring Cloud Stream Binder Kafka 2.0.1.RELEASE
influxdb-java 2.14	Springfox 2.9.2

jackson-core 2.9.7	XStream 1.4.11.1
jackson-datatype-joda 2.9.7	Zipkin 2.12.1
Java DogStatsD Client 2.6.1	zipkin-reporter-java 2.7.15
JsonPath 2.4.0	-

Security Edge Protection Proxy 1.1.0 Components

commons-lang3- 3.8.1	OkHttp 3.13.1
Guava 27.0.1	Spring Boot 2.1.2

Service Communication Proxy 1.2.1 Components

commons-lang3- 3.8.1	OkHttp 3.13.1
HttpClient 4.5.7	Spring Boot 2.1.2
jackson-dataformat-yaml 2.9.8	Spring Retry 1.2.4
JSON-Java 20180813	Springfox 2.9.2
Kubernetes Java Client library 4.0.0	springfox-swagger-ui 2.9.2

Unified Data Management 1.0.0 Components

Commons IO 2.6
HttpClient 4.5.7
jackson-databind 2.9.10
JSON-Java 20180813
JsonPath 2.4.0
JSON Schema 1.11.0
Kubernetes Java Client library 4.0.0
Micrometer 1.1.2
OkHttp 3.13.1
OpenTracing Spring Jaeger Web Starter 2.0.3
Spring Boot 2.1.7.RELEASE
spring-boot-starter-actuator 2.1.7.RELEASE
spring-boot-starter-data-jpa 2.1.7.RELEASE
spring-boot-starter-log4j2 2.1.7.RELEASE
spring-boot-starter-undertow 2.1.7.RELEASE
spring-boot-starter-web 2.1.7.RELEASE
Springfox 2.9.2

Unified Data Repository 1.3.0 Components

Commons IO 2.6	Micrometer 1.1.2
Guava 27.0.1	OkHttp 3.13.1

HttpClient 4.5.7	Spring Boot 2.1.2
JSON-Java 20180813	spring-boot-log4j2 2.1.2
JsonPath 2.4.0	spring-boot-starter-undertow 2.1.2
JSON Schema 1.11.0	spring-boot-starter-undertow 2.1.2
Kubernetes Java Client library 4.0.0	Springfox 2.9.2

Cloud Native Core Licensing Information

Table 3-1 Cloud Native Core Licensing Information

Provider	Component(s)	Licensing Information
Lightbend Inc.	Akka 2.5.17	Copyright 2009-2017 Lightbend Inc. APACHE 2.0 - See Appendix E The following 4th party libraries are under the Apache 2.0 License: com.typesafe # ssl-config-core_2.12 # 0.2.1 Copyright (C) 2015 - 2018 Lightbend Inc. com.typesafe # config # 1.3.1 Copyright (C) 2011-2012 Typesafe Inc. io.netty # netty # 3.10.6.Final Copyright 2014 The Netty Project io.aeron # aeron-client # 1.2.5 io.aeron # aeron-driver # 1.2.5 org.agrona # agrona # 0.9.5 Copyright 2014-2018 Real Logic Ltd. com.github.jnr # jffi # 1.2.14 Copyright (C) 2009 Wayne Meissner com.github.jnr # jnr-constants # 0.9.6 com.github.jnr # jnr-ffi # 2.1.2 Copyright (C) 2008-2010 Wayne Meissner org.lmdbjava # lmdbjava # 0.0.5 Copyright (C) 2016 - 2018 The LmdbJava Open Source Project APACHE 2.0 - Appendix E The following 4th party libraries are under BSD License org.ow2.asm # asm # 5.0.3 org.ow2.asm # asm-analysis # 5.0.3 org.ow2.asm # asm-commons # 5.0.3 org.ow2.asm # asm-tree # 5.0.3 org.ow2.asm # asm-util # 5.0.3 Copyright (c) 2000-2011 INRIA, France Telecom All rights reserved. Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met: 1.Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer. 2.Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution. 3.Neither the name of the copyright holders nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission. THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR

Table 3-1 (Cont.) Cloud Native Core Licensing Information

Provider	Component(s)	Licensing Information
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		<andrew.etter@gmail.com> Andrew Harding <andrew@spacemonkey.com> Andrew Lutomirski <andy@luto.us> Andrew Pogrebnoy <absourd.noise@gmail.com> Andrew Pritchard <awpritchard@gmail.com> Andrew Radev <andrey.radev@gmail.com> Andrew Skiba <skibaa@gmail.com> Andrew Szeto <andrew@jabagawee.com> Andrew Wilkins <axwalk@gmail.com> Andrew Williams <williams.andrew@gmail.com> Andrey Mirtchovski <mirtchovski@gmail.com> Andrey Petrov <andrey.petrov@shazow.net> Andrii Soldatenko <andrii.soldatenko@gmail.com> Andrii Soluk <isoluchok@gmail.com> Andriy Lytvynov <lytvynov.a.v@gmail.com> Andrzej Żeżel <andrii.zhezhel@gmail.com> Andy Balholm <andy@balholm.com> Andy Davis <andy@bigandian.com> Andy Finkenshtadt <afinkenshtadt@zynga.com> Andy Lindeman <andy@lindeman.io> Andy Maloney <asmaloney@gmail.com> Andy Walker <walkeraj@gmail.com> Anfernee Yongkun Gui <anfernee.gui@gmail.com> Angelo Bulfone <mbulfone@gmail.com> Anh Hai Trinh <anh.hai.trinh@gmail.com> Anit Gandhi <anitgandhi@gmail.com> Anmol Sethi <anmol@aubble.com> Anshel Schaffer-Cohen <anschelsc@gmail.com> Anthony Alves <cvballa3g0@gmail.com> Anthony Canino <anthony.canino1@gmail.com> Anthony Eufemio <anthony.eufemio@gmail.com> Anthony Martin <ality@pbrane.org> Anthony Sottile <asottile@umich.edu> Anthony Starks <ajstarks@gmail.com> Anthony Voutas <voutasaurus@gmail.com> Anthony Woods <awoods@raintank.io> Antoine Martin <antoine97.martin@gmail.com> Antonin Amand <antonin.amand@gmail.com> Antonio Antelo <aantelov87@gmail.com> Antonio Bibiano <antbbn@gmail.com> Antonio Troina <thoeni@gmail.com> Apisak Darakananda <pongad@gmail.com> Apsalar Aram Hăvărneanu <aram@mgk.ro> Areski Belaid <areski@gmail.com> Ariel Mashraki <ariel@mashraki.co.il> Arlo Breault <arlolra@gmail.com> ARM Ltd. Arnaud Ysmal <arnaud.ysmal@gmail.com> Arne Hormann <arnehormann@gmail.com> Arnout Engelen <arnout@bzzt.net> Aron Nopanen <aron.nopanen@gmail.com> Arthur Khashaev <arthur@khashaev.ru> Artyom Pervukhin <artyom.pervukhin@gmail.com> Arvinth Rajesh Tamilmani <art@a-30.net> Ashish Gandhi <ag@ashishgandhi.org> Atin Malaviya <amalaviy@akamai.com> Ato Araki <ato.araki@gmail.com> Audrey Lim <audreylh@gmail.com> Audrius Butkevicius <audrius.butkevicius@gmail.com> Augusto Roman <aroman@gmail.com> Aulus Egnatius Varialus <varialus@gmail.com> Aurélien Rainone <aurelien.rainone@gmail.com> awaw fumin <awawfumin@gmail.com> Awn Umar <awn@cryptolosophy.io> Axel Wagner <axel.wagner.hh@googlemail.com> Ayanamist Yang <ayanamist@gmail.com> Aymerick Jéhanne <aymerick@jehanne.org> Azat Kaumov <kaumov.a.r@gmail.com> Baiju Muthukadan <baiju.m.mail@gmail.com> Baokun Lee <nototon@gmail.com> Bartosz Grzybowski <melkorm@gmail.com> Bastian Ike <bastian.ike@gmail.com> Ben Burkert <ben@benburkert.com> Ben Haines <bhainesva@gmail.com> Ben Lubar <ben.lubar@gmail.com> Ben Olive <sionide21@gmail.com> Ben Shi <powerman1st@163.com> Benjamin Black <b@b3k.us> Benjamin Cable <cable.benjamin@gmail.com> Benjamin Hsieh <tanookiben@users.noreply.github.com> Benny Siegert <bsiegert@gmail.com> Benoit Sigouire <tsunanet@gmail.com> Berengar Lehr <berengar.lehr@gmx.de> Bill Zissimopoulos <billziss@navimatics.com> Billie Harold Cleek <bhcleek@gmail.com>

Table 3-1 (Cont.) Cloud Native Core Licensing Information

Provider	Component(s)	Licensing Information
		Bjorn Tillenius <bjorn@tillenius.me> Bjorn Tipling <bjorn.tipling@gmail.com> Blain Smith <rebelgeek@blainsmith.com> Blake Gentry <blakesgentry@gmail.com> Blake Mesdag <blakemesdag@gmail.com> Blake Mizerany <blake.mizerany@gmail.com> Blixt <me@blixt.nyc> Bob Briski <rbriski@gmail.com> Bob Potter <bobby.potter@gmail.com> Bobby Powers <bobbypowers@gmail.com> Bolt Borja Clemente <borja.clemente@gmail.com> Brad Burch <brad.burch@gmail.com> Brad Morgan <brad@morgabra.com> Bradley Falzon <brad@teambrad.net> Brady Catherman <brady@gmail.com> Brady Sullivan <brady@bsull.com> Brendan Daniel Tracey <tracey.brendan@gmail.com> Brett Cannon <bcannon@gmail.com> Brett Merrill <brett.j.merrill94@gmail.com> Brian Dellisanti <briandellisanti@gmail.com> Brian Downs <brian.downs@gmail.com> Brian G. Merrell <bgmerrell@gmail.com> Brian Gitonga Marete <marete@toshnix.com> <bgmarete@gmail.com> Brian Kennedy <btkennedy@gmail.com> Brian Kessler <brian.m.kessler@gmail.com> Brian Ketelsen <bketelsen@gmail.com> Brian Smith <ohohvi@gmail.com> Brian Starke <brian.starke@gmail.com> Bryan Alexander <Kozical@msn.com> Bryan Chan <bryanpkc@gmail.com> Bryan Ford <brynosaurus@gmail.com> Bulat Gaifullin <gaifullinbf@gmail.com> Burak Guven <bguven@gmail.com> Caine Tighe <arctanofyourface@gmail.com> Caleb Martinez <accounts@calebmartinez.com> Caleb Spare <cespare@gmail.com> Canonical Limited Carl Chatfield <carlchatfield@gmail.com> Carl Henrik Lunde <chlunde@ifi.uio.no> Carl Johnson <me@carlmjohnson.net> Carlisia Campos <carlisia@grokkingtech.io> Carlo Alberto Ferraris <cafxx@strayorange.com> Carlos Castillo <cookieo9@gmail.com> Carlos Cirello <uldericofilho@gmail.com> Carolyn Van Slyck <me@carolynvanslyck.com> Case Nelson <case.nelson@gmail.com> Casey Callendrello <squeed@gmail.com> Casey Marshall <casey.marshall@gmail.com> Cezar Sá Espinola <cezarsa@gmail.com> ChaiShushan <chaishushan@gmail.com> Charles Fenwick Elliott <Charles@FenwickElliott.io> Charles L. Dorian <cldorian@gmail.com> Charles Lee <zombie.fml@gmail.com> Chef Software, Inc. Chew Choon Keat <choonkeat@gmail.com> Cholerae Hu <choleraehyq@gmail.com> Chotepud Teo <AlexRouSg@users.noreply.github.com> Chris Ball <chris@printf.net> Chris Biscardi <chris@christopherbiscardi.com> Chris Dollin <ehog.hedge@gmail.com> Chris Farmiloe <chrisfarms@gmail.com> Chris Hines <chris.cs.guy@gmail.com> Chris Howey <howeyc@gmail.com> Chris Jones <chris@cjones.org> Chris Kastorff <encryptio@gmail.com> Chris Lennert <calennert@gmail.com> Chris Liles <caveryliles@gmail.com> Chris McGee <sirnewton_01@yahoo.ca> <newton688@gmail.com> Chris Roche <rodaine@gmail.com> Chris Smith <chrsmith@users.noreply.github.com> Chris Stockton <chrisstocktonaz@gmail.com> Christian Alexander <christian@linux.com> Christian Couder <chriscool@tuxfamily.org> Christian Himpel <chressie@googlemail.com> Christian Pellegrin <chri@evolware.org> Christine Hansmann <chhansmann@gmail.com> Christoffer Buchholz <christoffer.buchholz@gmail.com> Christoph Blecker <admin@toph.ca> Christoph Hack <christoph@tux21b.org> Christopher Cahoon <chris.cahoon@gmail.com> Christopher Guiney <chris@guiney.net> Christopher Henderson <chris@chenderson.org> Christopher Nelson <nadiasvertex@gmail.com> Christopher Nielsen <m4dh4tt3r@gmail.com> Christopher Redden <christopher.redden@gmail.com> Christopher

Table 3-1 (Cont.) Cloud Native Core Licensing Information

Provider	Component(s)	Licensing Information
		Wedgwood <cw@f00f.org> Christos Zoulas <christos@zoulas.com> <zoulasc@gmail.com> CL Sung <clsung@gmail.com> <cl_sung@htc.com> Clement Skau <clementska@gmail.com> CloudFlare Inc. Cody Oss <the.cody.oss@gmail.com> Colin Edwards <colin@recursivepenguin.com> Colin Kennedy <moshen.colin@gmail.com> Conrad Irwin <conrad.irwin@gmail.com> Conrad Meyer <cemeyer@cs.washington.edu> Conrado Gouvea <conradopl@gmail.com> Constantin Konstantinidis <constantinkonstantinidis@gmail.com> CoreOS, Inc. Corey Thomasson <cthom.lists@gmail.com> Cristian Staretu <unclejacksons@gmail.com> Currant Cyrill Schumacher <cyrill@schumacher.fm> Daisuke Fujita <dtanshi45@gmail.com> Damian Gryski <dgryski@gmail.com> Damien Lepiau <damiens.lespiau@gmail.com> Damien Mathieu <42@dmathieu.com> Dan Ballard <dan@mindstab.net> Dan Caddigan <goldcaddy77@gmail.com> Dan Callahan <dan.callahan@gmail.com> Dan Peterson <dpiddy@gmail.com> Dan Sinclair <dan.sinclair@gmail.com> Daniel Fleischman <danielfleischman@gmail.com> Daniel Johansson <dajo2002@gmail.com> Daniel Kerwin <d.kerwin@gini.net> Daniel Krech <eikeon@eikeon.com> Daniel Lidén <daniel.liden.87@gmail.com> Daniel Martí <mvdan@mvdan.cc> Daniel Morsing <daniel.morsing@gmail.com> Daniel Nephin <dnephin@gmail.com> Daniel Ortiz Pereira da Silva <daniel.particular@gmail.com> Daniel Skinner <daniel@dasa.cc> Daniel Speichert <daniel@speichert.pl> Daniel Theophanes <kardianos@gmail.com> Daniel Upton <daniel@floppy.co> Daniela Petruzalek <daniela.petruszalek@gmail.com> Danny Rousseau <daniel.rousseau@gmail.com> Darren Elwood <darren@textnode.com> Darshan Parajuli <parajulidarshan@gmail.com> Datong Sun <dndx@idndx.com> Dave Cheney <dave@cheney.net> Dave MacFarlane <driusan@gmail.com> Dave Russell <forfuncsake@gmail.com> David Brophy <dave@brophy.uk> David Bürgin <676c7473@gmail.com> David Calavera <david.calavera@gmail.com> David Carlier <devnexen@gmail.com> David du Colombier <0intro@gmail.com> David Forsythe <dforsythe@gmail.com> David G. Andersen <dave.andersen@gmail.com> David Howden <dhowden@gmail.com> David Jakob Fritz <david.jakob.fritz@gmail.com> David Leon Gil <coruus@gmail.com> David NewHamlet <david@newhamlet.com> David R. Jenni <david.r.jenni@gmail.com> David Sansome <me@davidsansome.com> David Stainton <dstainton415@gmail.com> David Thomas <davidthomas426@gmail.com> David Titarenco <david.titarenco@gmail.com> David Url <david@url.io> David Volquartz Lebech <david@lebech.info> David Wimmer <davidlwimmer@gmail.com> Davies Liu <davies.liu@gmail.com> Davor Kapsa <davor.kapsa@gmail.com> Dean Prichard <dean.prichard@gmail.com> Deepak Jois <deepak.jois@gmail.com> Denis Bernard <db047h@gmail.com> Denis Brandolini <denis.brandolini@gmail.com> Dennis Kuhnert <mail.kuhnert@gmail.com> Denys Honsiorovskiy <honsiorovskiy@gmail.com> Derek Buitenhuis <derek.buitenhuis@gmail.com> Derek McGowan <derek@mcgstyle.net> Derek Parker <parkerderek86@gmail.com> Derek Shockey <derek.shockey@gmail.com> Dev Ojha <dojha12@gmail.com> Dev Zhoujun <dev.zhoujun@gmail.com> Develer SRL Devon H. O'Dell <devon.odell@gmail.com> Dhaivat Pandit <dhaivatpandit@gmail.com> Dhiru Kholia <dhiru.kholia@gmail.com> Dhruvduddh Jadhav <dhruvduddh.jadhav@gmail.com> Didier Spezia <didier.06@gmail.com> Dimitri Sokolyuk <sokolyuk@gmail.com> Dimitri Teaciu

Table 3-1 (Cont.) Cloud Native Core Licensing Information

Provider	Component(s)	Licensing Information
		<dtcaciuc@gmail.com> Diogo Pinela <diogoid7400@gmail.com> Dirk Gadsden <dirk@esherido.com> Diwaker Gupta <diwakergupta@gmail.com> Dmitri Popov <operator@cv.dp-net.com> Dmitri Shuralyov <dmitri@shuralyov.com> <shurcool@gmail.com> Dmitriy Cherchenko <dcherchenko@gmail.com> Dmitriy Dudkin <dudkin.dmitriy@gmail.com> Dmitriy Shelenin <deemok@googlemail.com> <deemok@gmail.com> Dmitry Chestnykh <dchest@gmail.com> Dmitry Doroginin <doroginin@gmail.com> Dmitry Savintsev <dsavints@gmail.com> Dmitry Yakunin <nonamezeil@gmail.com> Dominic Green <dominicgreen1@gmail.com> Dominik Honnef <dominik.honnef@gmail.com> Donald Huang <don.hcd@gmail.com> Dong-hee Na <donghee.na92@gmail.com> Donovan Hide <donovanhide@gmail.com> Dropbox, Inc. Duncan Holm <mail@frou.org> Dustin Herbison <djherbis@gmail.com> Dustin Sallings <dsallings@gmail.com> Dustin Shields-Cloues <dcloues@gmail.com> Dvir Volk <dvir@everything.me> <dvirsky@gmail.com> Dylan Waits <dylan@waits.io> Edan Bedrik <3d4nb3@gmail.com> Eden Li <eden.li@gmail.com> Eduardo Ramalho <eduardo.ramalho@gmail.com> Edward Muller <edwardam@interlix.com> Egon Elbre <egonelbre@gmail.com> Ehren Kret <ehren.kret@gmail.com> Eitan Adler <lists@eitanadler.com> Eivind Uggedal <eivind@uggedal.com> Elbert Fliek <efliek@gmail.com> Eldar Rakhimberdin <ibeono@gmail.com> Elena Grahovac <elena@grahovac.me> Elias Naur <elias.naur@gmail.com> Elliot Morrison-Reed <elliottmr@gmail.com> Emerson Lin <linyintor@gmail.com> Emil Hessman <emil@hessman.se> Emil Mursalimov <mursalimovemeel@gmail.com> Emilien Kenler <hello@emilienkenler.com> Emmanuel Odeke <emm.odeke@gmail.com> <odeke@ualberta.ca> Empirical Interfaces Inc. Eoghan Sherry <ejsherry@gmail.com> Eric Chiang <eric.chiang.m@gmail.com> Eric Clark <zerohp@gmail.com> Eric Daniels <eric@erdaniels.com> Eric Engestrom <eric@engestrom.ch> Eric Lagergren <ericscottlagergren@gmail.com> Eric Milliken <emilliken@gmail.com> Eric Pauley <eric@pauley.me> Eric Rescorla <ekr@rtfm.com> Eric Roshan-Eisner <eric.d.eisner@gmail.com> Eric Rykwalder <e.rykwalder@gmail.com> Erik Aigner <aigner.erik@gmail.com> Erik Dubbelboer <erik@dubbelboer.com> Erik St. Martin <alakriti@gmail.com> Erik Westrup <erik.westrup@gmail.com> Ernest Chiang <ernest_chiang@htc.com> Erwin Oegema <blablaechthema@hotmail.com> Esko Luontola <esko.luontola@gmail.com> Euan Kemp <euank@euank.com> Eugene Kalinin <e.v.kalinin@gmail.com> Evan Hicks <evan.hicks2@gmail.com> Evan Jones <ej@evanjones.ca> Evan Phoenix <evan@phx.io> Evan Shaw <chickencha@gmail.com> Evgeniy Polyakov <zbr@iorem.net> Ewan Chou <coocood@gmail.com> Ewan Valentine <ewan.valentine89@gmail.com> Eyal Posener <posener@gmail.com> Fabian Wickborn <fabian@wickborn.net> Fabian Zaremba <fabian@youremail.eu> Fabrizio Milo <mistobaan@gmail.com> Facebook, Inc. Faiyaz Ahmed <ahmedf@vmware.com> Fan Hongjian <fan.howard@gmail.com> Fastly, Inc. Fatih Arslan <fatih@arslan.io> Fazlul Shahriar <fshahriar@gmail.com> Fedor Indutny <fedor@indutny.com> Felipe Oliveira <felipeweb.programador@gmail.com> Felix Geisendörfer <haimuiba@gmail.com> Felix Kollmann <fk@konsorten.de> Filip Gruszczyński <gruszczy@gmail.com> Filip Haglund <drathier@users.noreply.github.com> Filippo Valsorda <hi@filippo.io> Firmansyah Adiputra <frm.adiputra@gmail.com> Florian Uekermann

Table 3-1 (Cont.) Cloud Native Core Licensing Information

Provider	Component(s)	Licensing Information
		<florian@ueckermann-online.de> Florian Weimer <fw@deneb.enyo.de> Florin Patan <florinpatan@gmail.com> Ford Hurley <ford.hurley@gmail.com> Francesc Campoy <francesc@campoy.cat> Francisco Claude <fclaude@recoded.cl> Francisco Rojas <francisco.rojas.gallegos@gmail.com> Francisco Souza <franciscossouza@gmail.com> Frank Schroeder <frank.schroeder@gmail.com> Frank Somers <fsomers@arista.com> Frederic Guillot <frederic.guillot@gmail.com> Frederick Kelly Mayle III <frederickmayle@gmail.com> Frederik Ring <frederik.ring@gmail.com> Fredrik Enestad <fredrik.enestad@soundtrackyourbrand.com> Fredrik Forsmo <fredrik.forsmo@gmail.com> Fredrik Wallgren <fredrik.wallgren@gmail.com> Frithjof Schulze <schulze@math.uni- hannover.de> <sfrithjof@gmail.com> Frits van Bommel <fvbommel@gmail.com> Gabriel Arthúr Pétursson <gabriel@system.is> Gabriel Aszalos <gabriel.aszalos@gmail.com> Gabriel Nicolas Avellaneda <avellaneda.gabriel@gmail.com> Gabriel Russell <gabriel.russell@gmail.com> Gareth Paul Jones <gpj@foursquare.com> Gary Burd <gary@beagledreams.com> Gaurish Sharma <contact@gaurishsharma.com> Gautham Thambidorai <gautham.dorai@gmail.com> Gauthier Jolly <gauthier.jolly@gmail.com> Geert-Johan Riemer <gjr19912@gmail.com> Gengliang Wang <ltnwgl@gmail.com> Geoffroy Lorieux <lorieux.g@gmail.com> Geon Kim <geon0250@gmail.com> Georg Reinke <guelfey@gmail.com> George Gkirtsou <ggirtsou@gmail.com> George Shammass <george@shamm.as> <georgyo@gmail.com> Gerasimos Dimitriadis <gedimitr@gmail.com> Getulio Sánchez <valentin2507@gmail.com> Gideon Jan-Wessel Redelinghuys <gjredelinghuys@gmail.com> Giles Lean <giles.lean@pobox.com> Giulio Iotti <dullgiulio@gmail.com> Gleb Stepanov <glebstepanov1992@gmail.com> Google Inc. Gordon Klaus <gordon.klaus@gmail.com> Graham King <graham4king@gmail.com> Graham Miller <graham.miller@gmail.com> Grant Griffiths <ggp493@gmail.com> Greg Poirier <greg.istehbest@gmail.com> Greg Ward <greg@gerg.ca> Grégoire Delattre <gregoire.delattre@gmail.com> Gregory Man <man.gregory@gmail.com> Guilherme Garnier <guilherme.garnier@gmail.com> Guilherme Goncalves <guilhermeaugustosg@gmail.com> Guilherme Rezende <guilhermebr@gmail.com> Guillaume J. Charmes <guillaume@charmes.net> Guobiao Mei <meiguobiao@gmail.com> Gustav Paul <gustav.paul@gmail.com> Gustav Westling <gustav@westling.xyz> Gustavo Niemeyer <gustavo@niemeyer.net> Gwenael Treguier <gwenn.kahz@gmail.com> Gyu-Ho Lee <gyuhox@gmail.com> H. İbrahim Güngör <igungor@gmail.com> Hajime Hoshi <hajimehoshi@gmail.com> HAMANO Tsukasa <hamano@osstech.co.jp> Hang Qian <hangqian90@gmail.com> Hanjun Kim <hallazzang@gmail.com> Harald Nordgren <haraldnordgren@gmail.com> Hari haran <hariharan.uno@gmail.com> Hariharan Srinath <srinathh@gmail.com> Harley Laue <losinggeneration@gmail.com> Harry Moreno <morenoh149@gmail.com> Harshavardhana <hrshvardhana@gmail.com> Hauke Löffler <hloeffler@users.noreply.github.com> Håvard Haugen <havard.haugen@gmail.com> Hector Chu <hectorchu@gmail.com> Hector Martin Cantero <hector@marcansoft.com> Henning Schmiedehausen <henning@schmiedehausen.org> Henrik Edwards <henrik.edwards@gmail.com> Henrik Hodne <henrik@hodne.io> Henry Adi Sumarto <henry.adisumarto@gmail.com> Henry Bubert

Table 3-1 (Cont.) Cloud Native Core Licensing Information

Provider	Component(s)	Licensing Information
		<google@mindeco.de> Henry Chang <mr.changyuheng@gmail.com> Henry Clifford <h.a.clifford@gmail.com> Herbert Georg Fischer <herbert.fischer@gmail.com> Hilko Bengen <bengen@hilluzination.de> Hiroaki Nakamura <hnaakamur@gmail.com> Hironao OTSUBO <motemen@gmail.com> Hiroshi Ioka <hirochachacha@gmail.com> Hitoshi Mitake <mitake.hitoshi@gmail.com> Holden Huang <ttyh061@gmail.com> Hong Ruiqi <hongruiqi@gmail.com> Hongfei Tan <feilengcui008@gmail.com> Hsin-Ho Yeh <yhh92u@gmail.com> Hu Keping <hukeping@huawei.com> Hugues Bruant <hugues.bruant@gmail.com> Ian Gudger <ian@loosescre.ws> Ian Kent <iankent85@gmail.com> IBM Ibrahim AshShohail <ibra.sho@gmail.com> Icarus Sperry <golang@icarus.freeuk.com> Iccha Sethi <icchasethi@gmail.com> Idora Shinatose <idora.shinatose@gmail.com> Igneous Systems, Inc. Igor Dolzhikov <bluesriverz@gmail.com> Igor Vashyst <ivashyst@gmail.com> INADA Naoki <songofacandy@gmail.com> Inanc Gumus <m@inanc.io> Infobaleen AB Ingo Gottwald <in.gottwald@gmail.com> Ingo Krabbe <ikrabbe.ask@gmail.com> Ingo Oeser <nightlyone@googlemail.com> Intel Corporation Ioannis Georgoulas <geototti21@hotmail.com> Irfan Sharif <irfanmahmoudsharif@gmail.com> Irieda Noboru <irieda@gmail.com> Isaac Ardis <isaac.ardis@gmail.com> Isaac Wagner <ibw@isaacwagner.me> Ivan Babrou <ivan@cloudflare.com> Ivan Bertona <ivan.bertona@gmail.com> Ivan Markin <sw@nogoeegst.net> Ivan Moscoso <moscoso@gmail.com> Ivan Ukhov <ivan.ukhov@gmail.com> Jack Britton <jackxbritton@gmail.com> Jacob H. Haven <jacob@jhaven.me> Jacob Hoffman-Andrews <github@hoffman-andrews.com> Jae Kwon <jac@tendermint.com> Jakob Borg <jakob@nym.se> Jakob Weisblat <jakobw@mit.edu> Jakub Ryszard Czarnowicz <j.czarnowicz@gmail.com> James Bardin <j.bardin@gmail.com> James Clarke <jrtc27@jrtc27.com> James Cowgill <James.Cowgill@imgtec.com> James David Chalfant <james.chalfant@gmail.com> James Fysh <james.fysh@gmail.com> James Gray <james@james4k.com> James Hartig <fastest963@gmail.com> James Lawrence <jl Jatone@gmail.com> James Meneghello <rawrz0r@gmail.com> James Myers <jfmyers9@gmail.com> James Neve <jamesoneve@gmail.com> James P. Cooper <jamespcooper@gmail.com> James Schofield <james@shoeboxapp.com> James Smith <jrs1995@icloud.com> James Sweet <james.sweet88@googlemail.com> James Toy <nil@opensesame.st> James Treanor <jtreanor3@gmail.com> James Whitehead <jnwhiteh@gmail.com> Jamie Beverly <jamie.r.beverly@gmail.com> Jamie Kerr <jkerr113@googlemail.com> Jamie Stackhouse <contin673@gmail.com> Jamil Djadala <djadala@gmail.com> Jan Bertold <jan@berktold.co> Jan H. Hosang <jan.hosang@gmail.com> Jan Lehnardt <jan@apache.org> Jan Mercl <0xjnml@gmail.com> <befelemepeseveze@gmail.com> Jan Newmarch <jan.newmarch@gmail.com> Jan Pilzer <jan.pilzer@gmx.de> Jan Ziak <0xe2.0x9a.0x9b@gmail.com> Jani Monoses <jani.monoses@ubuntu.com> Jared Culp <jculp14@gmail.com> Jaroslav Počepko <jp@webmaster.ms> Jason A. Donenfeld <Jason@zx2c4.com> Jason Barnett <jason.w.barnett@gmail.com> Jason Chu <jasonchujc@gmail.com> Jason Del Ponte <delpontej@gmail.com> Jason Smale <jsmale@zendesk.com> Jason Travis <infomaniac7@gmail.com> Jason Wangsadinata <jwangsadinata@gmail.com> Javier Segura <javism@gmail.com> Jay Weisskopf <jay@jayschwa.net> Jean-André Santoni <jean.andre.santoni@gmail.com> Jean-Francois Cantin

Table 3-1 (Cont.) Cloud Native Core Licensing Information

Provider	Component(s)	Licensing Information
		<jfcantin@gmail.com> Jean-Nicolas Moal <jn.moal@gmail.com> Jeet Parekh <jeetparekh96@gmail.com> Jeevanandam M <jeeva@myjeeva.com> Jeff Dupont <jeff.dupont@gmail.com> Jeff Hodges <jeff@somethingsimilar.com> Jeff R. Allen <jra@nella.org> Jeff Sickel <jas@corpus-callosum.com> Jeff Wendling <jeff@spacemonkey.com> Jeffrey H <jeffreyh192@gmail.com> Jelte Fennema <github-tech@jeltef.nl> Jens Frederich <jfrederich@gmail.com> Jeremy Jackins <jeremyjackins@gmail.com> Jeroen Bobbeldijk <jerbob92@gmail.com> Jerrin Shaji George <jerrinsg@gmail.com> Jess Frazelle <me@jessfraz.com> Jesse Szwedko <jesse.szwedko@gmail.com> Jesús Espino <jespinog@gmail.com> Jihyun Yu <yjh0502@gmail.com> Jim McGrath <jimmc2@gmail.com> Jimmy Frasche <soapboxcicero@gmail.com> Jimmy Zelinskie <jimmyzelinskie@gmail.com> Jin-wook Jeong <jeweljar@hanmail.net> Jingcheng Zhang <diogin@gmail.com> Jingguo Yao <yaojingguo@gmail.com> Jiong Du <londevil@gmail.com> Jirka Daněk <dnk@mail.muni.cz> Jiulong Wang <jiulongw@gmail.com> Joakim Sernbrant <serbaut@gmail.com> Joe Cortopassi <joe@joecortopassi.com> Joe Farrell <joe2farrell@gmail.com> Joe Harrison <joehazzers@gmail.com> Joe Henke <joed.henke@gmail.com> Joe Kyo <xunianzu@gmail.com> Joe Poirier <jdpoirier@gmail.com> Joe Shaw <joe@joeshaw.org> Joe Sylve <joe.sylve@gmail.com> Joe Tsai <joetsai@digital-static.net> Joel Sing <joel@sing.id.au> Joel Stemmer <stemmertech@gmail.com> Joey Geiger <jgeiger@users.noreply.github.com> Johan Brandhorst <johan.brandhorst@gmail.com> Johan Sageryd <j@1616.se> John Asmuth <jasmuth@gmail.com> John C Barstow <jbowtie@amathaine.com> John Gibb <johngibb@gmail.com> John Graham-Cumming <jgc@jgc.org> <jgrahamc@gmail.com> John Howard Palevich <jack.palevich@gmail.com> John Jeffery <jjeffery@sp.com.au> John Jenkins <twodopeslaggy@gmail.com> John Leidegren <john.leidegren@gmail.com> John Potočný <johnp@vividcortex.com> John R. Lenton <jlenton@gmail.com> John Schnake <schnake.john@gmail.com> John Shahid <jvshahid@gmail.com> John Tuley <john@tuley.org> Johnny Luo <johnnyluo1980@gmail.com> Jonas Bernoulli <jonas@bernoul.li> Jonathan Boule <jonathanboule@gmail.com> Jonathan Chen <dijonkitchen@users.noreply.github.com> Jonathan Gold <jgold.bg@gmail.com> Jonathan Mark <jhmark@xenops.com> Jonathan Pentecost <pentecostjonathan@gmail.com> Jonathan Rudenberg <jonathan@titanous.com> Jonathan Stacks <jonstacks13@gmail.com> Jonathan Wills <runningwild@gmail.com> Jongmin Kim <atomaths@gmail.com> Joonas Kuorilehto <joneskoo@derbian.fi> Joop Kieft <ikojba@gmail.com> <joop@kiefte.net> Jordan Krage <jmank88@gmail.com> Jordan Lewis <jordanthelewis@gmail.com> Jose Luis Vázquez González <josvazg@gmail.com> Joseph Holsten <joseph@josephholsten.com> Josh Blecher Snyder <josharian@gmail.com> Josh Chorlton <jchorlton@gmail.com> Josh Deprez <josh.deprez@gmail.com> Josh Goebel <dreamer3@gmail.com> Josh Holland <jrh@joshh.co.uk> Josh Roppo <joshroppo@gmail.com> Josh Varga <josh.varga@gmail.com> Joshua Chase <jcjoshuachase@gmail.com> Joshua Rubin <joshua@rubixconsulting.com> Josselin Costanzi <josselin@costanzi.fr> Jostein Stuhau <js@solidssystem.no> Joyent, Inc. JT Olds <jtolds@xnet5.com> Juan Carlos <juanjcsr@gmail.com> Jude Pereira <judebpereira@gmail.com> Jukka-Pekka Kekkonen <karatepekka@gmail.com> Julian Kornberger <jk+github@digineo.de>

Table 3-1 (Cont.) Cloud Native Core Licensing Information

Provider	Component(s)	Licensing Information
		Julian Phillips <julian@quantumfyre.co.uk> Julien Salleyron <julien.salleyron@gmail.com> Julien Schmidt <google@julianschmidt.com> Junda Liu <junda@celer.network> Junya Hayashi <ledmonster@gmail.com> Justin Gracenin <jgracenin@gmail.com> Justin Nuß <nuss.justin@gmail.com> Justyn Temme <justyntemme@gmail.com> Kai Backman <kaib@golang.org> Kai Trukenmüller <ktye78@gmail.com> Kale Blankenship <kale@lemnisis.com> Kaleb Elwert <kelwert@atlassian.com> Kamil Chmielewski <kamil.chm@gmail.com> Kamil Kisiel <kamil@kamilkisiel.net> <kamil.kisiel@gmail.com> Kamil Rytarowski <krytarowski@users.noreply.github.com> Kang Hu <hukangustc@gmail.com> Karel Pazdera <pazderak@gmail.com> Karoly Negyesi <chx1975@gmail.com> Karsten Köhler <karsten.koehler95@gmail.com> Kashav Madan <kshvmdn@gmail.com> Kate Manson <kate.manson@izettle.com> Kato Kazuyoshi <kato.kazuyoshi@gmail.com> Katrina Owen <katrina.owen@gmail.com> Kaviraj Kanagaraj <kavirajkanagaraj@gmail.com> Keegan Carruthers-Smith <keegan.csmith@gmail.com> Kei Son <hey.calmdown@gmail.com> Keiji Yoshida <keijiyoshida.mail@gmail.com> Keith Ball <inflatablewoman@gmail.com> Keith Rarick <kr@xph.us> Kelsey Hightower <kelsey.hightower@gmail.com> Kelvin Foo Chuan Lyi <vmirage@gmail.com> Ken Friedenbach <kenliz@cruzio.com> Ken Rockot <ken@oz.gs> Ken Sedgwick <ken@bonsai.com> Kenji Kaneda <kenji.kaneda@gmail.com> Kenji Yano <kenji.yano@gmail.com> Kenneth Shaw <kenshaw@gmail.com> Kenny Grant <kennygrant@gmail.com> Kevin Ballard <kevin@sb.org> Kevin Burke <kev@inburke.com> Kevin Kirsche <kev.kirsche@gmail.com> Kevin Ruffin <kruffin@gmail.com> Kevin Vu <kevin.m.vu@gmail.com> Kieran Colford <kieran@kcolford.com> Kim Yongbin <kybinz@gmail.com> Kir Kolyshkin <kolyshkin@gmail.com> Kirk Han <kirk91.han@gmail.com> Klaus Post <klauspost@gmail.com> Kodie Goodwin <kodiegoodwin@gmail.com> Koichi Shiraishi <zchee.io@gmail.com> Koki Ide <niconegoto@yahoo.co.jp> Konstantin <konstantin8105@gmail.com> Konstantin Shaposhnikov <k.shaposhnikov@gmail.com> KPCompass, Inc. Kris Nova <kris@nivenly.com> Kristopher Watts <traetox@gmail.com> Kun Li <likunarmstrong@gmail.com> Kunpei Sakai <namusyaka@gmail.com> Kuntal Majumder <hellozee@disroot.org> Kyle Consalus <consalus@gmail.com> Kyle Isom <kyle@gokyle.net> Kyle Jones <kyle@kyledj.com> Kyle Lemons <kyle@kylelemons.net> Kyle Shannon <kyle@pobox.com> Kyohei Kadota <lufia@lufia.org> Kyrylo Silin <silin@kyrylo.org> L Campbell <unpantso@gmail.com> Lai Jiangshan <eag0628@gmail.com> Lakshay Garg <lakshay.garg.1996@gmail.com> Lanre Adelowo <yo@lanre.wtf> Larry Hosken <lahosken@gmail.com> Lars Jeppesen <jeppesen.lars@gmail.com> Lars Lehtonen <lars.lehtonen@gmail.com> Lars Wiegman <lars@namsral.com> Larz Conwell <larzconwell@gmail.com> Laurent Voisin <lpvoisin@gmail.com> Laurie Clark-Michalek <laurie@qubit.com> LE Manh Cuong <cuong.manhle.vn@gmail.com> Lee Hinman <hinman@gmail.com> Lee Packham <lpackham@gmail.com> Lehner Florian <dev@der-flo.net> Leigh McCulloch <leighmcc@gmail.com> Leo Antunes <leo@costela.net> Leon Klingele <git@leonklingele.de> Leonel Quinteros <leonel.quinteros@gmail.com> Lev Shamardin <shamardin@gmail.com> Lewin Bormann <lewin.bormann@gmail.com> Liberty Fund Inc Linaro Limited Lion Yang <lion@aosc.xyz> Lloyd Dewolf <foolswisdom@gmail.com> Lorenzo Masini <rugginoso@develer.com>

Table 3-1 (Cont.) Cloud Native Core Licensing Information

Provider	Component(s)	Licensing Information
		Lorenzo Stoakes <lstoakes@gmail.com> Luan Santos <cfcluan@gmail.com> Lubomir I. Ivanov <neolit123@gmail.com> Luca Greco <luca.greco@alcacoop.it> Lucas Bremgartner <lucas.bremgartner@gmail.com> Lucien Stuker <lucien.stuker@gmail.com> Lucio De Re <lucio.dere@gmail.com> Ludi Rehak <ludi317@gmail.com> Luigi Riefolo <luigi.riefolo@gmail.com> Luit van Drongelen <luitvd@gmail.com> Luka Zakrajšek <tr00.g33k@gmail.com> Luke Curley <qpingu@gmail.com> Luke Granger-Brown <git@lukegb.com> Lyle Franklin <lylejfranklin@gmail.com> Ma Peiqi <mapeiqi2017@gmail.com> Maicon Costa <maiconscoستا@gmail.com> Maksym Trykur <maksym.trykur@gmail.com> Mal Curtis <mal@mal.co.nz> Manfred Touron <m@42.am> Manigandan Dharmalingam <manigandan.jeff@gmail.com> Manish Goregaokar <manishsmail@gmail.com> Mansour Rahimi <rahimi.mnr@gmail.com> Manu S Ajith <neo@codingarena.in> Manuel Mendez <mmendez534@gmail.com> Marc Weistroff <marc@weistroff.net> Marcel Edmund Franke <marcel.edmund.franke@gmail.com> Marcelo Cantos <marcelo.cantos@gmail.com> Marcelo E. Magallon <marcelo.magallon@gmail.com> Marco Hennings <marco.hennings@freiheit.com> Marin Bašić <marin.basic02@gmail.com> Mario Arranz <marioarranzr@gmail.com> Mark Adams <mark@markadams.me> Mark Bucciarelli <mkbucc@gmail.com> Mark Percival <m@mdp.im> Mark Pulford <mark@kyne.com.au> Mark Rushakoff <mark.rushakoff@gmail.com> Mark Severson <miquella@gmail.com> Mark Theunissen <mark.theunissen@gmail.com> Mark Wolfe <mark@wolfe.id.au> Marko Juhani Silokunnas <marko.silokunnas@gmail.com> Marko Mudrinic <mudrinic.mare@gmail.com> Marko Tiikkaja <marko@joh.to> Markover Inc. DBA Poptip Markus Duft <markus.duft@salomon.at> Markus Sonderegger <marraison@gmail.com> Markus Zimmermann <zimmski@gmail.com> Martin Bertschler <mbertschler@gmail.com> Martin Garton <garton@gmail.com> Martin Hamrle <martin.hamrle@gmail.com> Martin Hoefling <martin.hoefling@gmx.de> Martin Kunc <martinkunc@users.noreply.github.com> Martin Lindhe <martin.j.lindhe@gmail.com> Martin Möhrmann <martisch@uos.de> Martin Neubauer <m.ne@gmx.net> Martin Olsen <github.com@martinolsen.net> Martin Olsson <martin@minimum.se> Martin Probst <martin@probst.io> Martin Sucha <anty.sk+git@gmail.com> Martins Sipenko <martins.sipenko@gmail.com> Marvin Stenger <marvin.stenger94@gmail.com> Marwan Sulaiman <marwan.sulaiman@work.co> Maryan Hratson <gmarik@gmail.com> Masahiro Furudate <masahiro.furudate@gmail.com> Masahiro Wakame <vvakame@gmail.com> Masaki Yoshida <yoshida.masaki@gmail.com> Mat Byczkowski <mbyczkowski@gmail.com> Mat Ryer <thatmatryer@gmail.com> Máté Gulyás <mgulyas86@gmail.com> Matej Bačo <matejbaco@gmail.com> Mateus Amin <mateus.amin@gmail.com> Mateusz Czapliński <czapkofan@gmail.com> Mathias Beke <git@denbeke.be> Mathias Hall-Andersen <mathias@hall-andersen.dk> Mathias Leppich <mleppich@muhqu.de> Mathieu Lonjaret <mathieu.lonjaret@gmail.com> Mats Lidell <mats.lidell@cag.se> Matt Aimonetti <mattaimonetti@gmail.com> Matt Blair <me@matthewblair.net> Matt Bostock <matt@mattbostock.com> Matt Dee <mdee@hioscar.com> Matt Drollette <matt@drollette.com> Matt Harden <matt.harden@gmail.com> Matt Jibson <matt.jibson@gmail.com> Matt

Table 3-1 (Cont.) Cloud Native Core Licensing Information

Provider	Component(s)	Licensing Information
		Joiner <anacrolix@gmail.com> Matt Juran <thepciet@gmail.com> Matt Layher <mdlayher@gmail.com> Matt Reiferson <mreiferson@gmail.com> Matt Robenolt <matt@ydekproductions.com> Matt Strong <mstrong1341@gmail.com> Matt T. Proud <matt.proud@gmail.com> Matt Williams <gh@mattyw.net> Matthew Brennan <matty.brennan@gmail.com> Matthew Broberg <matthewbbroberg@gmail.com> Matthew Cottingham <mattcottingham@gmail.com> Matthew Denton <mdenton@skyportsystems.com> Matthew Holt <Matthew.Holt+git@gmail.com> Matthew Horsnell <matthew.horsnell@gmail.com> Matthieu Hauglustaine <matt.hauglustaine@gmail.com> Matthieu Olivier <olivier.matthieu@gmail.com> Matthijs Kooijman <matthijs@stdn.nl> Max Riveiro <kavu13@gmail.com> Max Schmitt <max@schmitt.mx> Maxim Khitrov <max@mxcrypt.com> Maxime de Roucy <maxime.deroucy@gmail.com> Máximo Cuadros Ortiz <mcuadros@gmail.com> Maxwell Krohn <themax@gmail.com> Mayank Kumar <krmayankk@gmail.com> MediaMath, Inc Meir Fischer <meirfischer@gmail.com> Meng Zhuo <mengzhuo1203@gmail.com> Meteor Development Group Mhd Sulhan <m.shulhan@gmail.com> Micah Stetson <micah.stetson@gmail.com> Michael Brandenburg <mbrandenburg@bolste.com> Michael Chaten <mchaten@gmail.com> Michael Dorner <mail@michaeldorf.de> Michael Edwards <medwards@walledcity.ca> Michael Elkins <michael.elkins@gmail.com> Michael Fraenkel <michael.fraenkel@gmail.com> Michael Gehring <mg@ebfe.org> <gnirheg.leahcim@gmail.com> Michael Hendricks <michael@ndrix.org> Michael Hoisie <hoisie@gmail.com> Michael Kasch <michael.kasch@gmail.com> Michael Käufl <golang@c.michael-kaeufl.de> Michael Lewis <mikelikespie@gmail.com> Michael MacInnis <Michael.P.MacInnis@gmail.com> Michael Marineau <mike@marineau.org> Michael McConville <momconville@gmail.com> Michael McLoughlin <mmcloughlin@gmail.com> Michael Pearson <mipearson@gmail.com> Michael Schaller <michael@5challer.de> Michael Schurter <michael.schurter@gmail.com> Michael Stapelberg <michael@stapelberg.de> Michael Steinert <mike.steinert@gmail.com> Michael Teichgräber <mteichgraeber@gmx.de> Michael Vetter <g.bluehut@gmail.com> Michal Bohuslavěk <mbohuslavcek@gmail.com> Michał Derkacz <ziutek@lnet.pl> Michal Franc <lam.michal.franc@gmail.com> Michal Pristas <michal.pristas@gmail.com> Miek Gieben <miek@miek.nl> Miguel Mendez <stxmendez@gmail.com> Miguel Molina <hi@mvader.me> Mihai Borobocea <MihaiBorobocea@gmail.com> Mihail Minaev <minaev.mike@gmail.com> Mikael Tillenius <mikti42@gmail.com> Mike Andrews <mra@xoba.com> Mike Appleby <mike@app.leby.org> Mike Houston <mike@kothar.net> Mike Kabischev <kabischev@gmail.com> Mike Rosset <mike.rosset@gmail.com> Mike Tsao <mike@sowbug.com> Mikhail Gusarov <dottedmag@dottedmag.net> Mikhail Panchenko <m@mihasya.com> Miki Tebeka <miki.tebeka@gmail.com> Mikio Hara <mikioh.mikioh@gmail.com> Mikkel Krautz <mikkel@krautz.dk> Milan Knezevic <milan.knezevic@mips.com> Milutin Jovanovic <jovanovic.milutin@gmail.com> MinJae Kwon <mingrammer@gmail.com> Miquel Sabaté Solà <mikisabate@gmail.com> Miroslav Genov <mgenov@gmail.com> Misty De Meo <mistydemeo@gmail.com> Mohit Agarwal <mohit@sdf.org> Mohit kumar Bajoria <mohitbajo36@gmail.com> Momchil Velikov <momchil.velikov@gmail.com> Monty Taylor <mordred@inaugust.com> Moov Corporation Moriyoshi Koizumi

Table 3-1 (Cont.) Cloud Native Core Licensing Information

Provider	Component(s)	Licensing Information
		<mozo@mozo.jp> Morten Siebuhr <sbhr@sbhr.dk> Möshe van der Sterre <moshevds@gmail.com> Mostyn Bramley-Moore <mostyn@antipode.se> Muhammad Falak R Wani <falakreyaz@gmail.com> Muhammed Uluyol <uluyol0@gmail.com> Mura Li <mura_li@castech.com.tw> Nan Deng <monnand@gmail.com> Naoki Kanatani <k12naoki@gmail.com> Nate Wilkinson <nathanwilk7@gmail.com> Nathan Cantelmo <n.cantelmo@gmail.com> Nathan Caza <mastercactus@gmail.com> Nathan Humphreys <nkhumphreys@gmail.com> Nathan John Youngman <nj@nathany.com> Nathan Otterness <otterness@cs.unc.edu> Nathan P Finch <nate.finch@gmail.com> Nathan VanBenschoten <nvanbenschoten@gmail.com> Nathan Youngman <git@nathany.com> Nathaniel Cook <nvcook42@gmail.com> Naveen Kumar Sangi <naveenkumarsangi@protonmail.com> Neelesh Chandola <neelesh.c98@gmail.com> Neil Lyons <nwjlyons@googlemail.com> Netflix, Inc. Neuman Vong <neuman.vong@gmail.com> Neven Sajko <nsajko@gmail.com> Nevins Bartolomeo <nevins.bartolomeo@gmail.com> Nexedi ngmoco, LLC Niall Sheridan <nsheridan@gmail.com> Nic Day <nic.day@me.com> Nicholas Katsaros <nick@nickkatsaros.com> Nicholas Maniscalco <nicholas@maniscalco.com> Nicholas Presta <nick@nickpresta.ca> <nick1presta@gmail.com> Nicholas Sullivan <nicholas.sullivan@gmail.com> Nicholas Waples <nwaples@gmail.com> Nick Craig-Wood <nick@craig-wood.com> <nickcw@gmail.com> Nick Leli <nicholasleli@gmail.com> Nick Miyake <nmiyake@users.noreply.github.com> Nick Patavalis <nick.patavalis@gmail.com> Nick Petroni <npetroni@cs.umd.edu> Nick Robinson <nrobinson13@gmail.com> Nick Smolin <nick27surgut@gmail.com> Nicolas BRULEZ <n.brulez@gmail.com> Nicolas Kaiser <nikai@nikai.net> Nicolas Owens <mischieff@offblast.org> Nicolas S. Dade <nic.dade@gmail.com> Niek Sanders <niek.sanders@gmail.com> Niels Widger <niels.widger@gmail.com> Nigel Kerr <nigel.kerr@gmail.com> Nik Nyby <nnyby@columbia.edu> Nikhil Benesch <nikhil.benesch@gmail.com> Niklas Schnelle <niklas.schnelle@gmail.com> Niko Dziemba <niko@dziemba.com> Nikolay Turpitko <nikolay@turpitko.com> Nils Larsgård <nilsmagnus@gmail.com> Niranjana Godbole <niranjana8192@gmail.com> Nishanth Shanmugham <nishanth.gerrard@gmail.com> Noah Campbell <noahcampbell@gmail.com> Noble Johnson <noblepoly@gmail.com> Noel Georgi <git@frezbo.com> Norberto Lopes <nlopes.ml@gmail.com> Odin Ugedal <odin@ugedal.com> Oleg Bulatov <dmage@yandex-team.ru> Oleg Vakheta <helginet@gmail.com> Oleku Konko <oleku.konko@gmail.com> Oling Cat <olingcat@gmail.com> Oliver Hookins <ohookins@gmail.com> Oliver Tonnhofer <olt@bogsoft.com> Olivier Antoine <olivier.antoine@gmail.com> Olivier Duperray <duperray.olivier@gmail.com> Olivier Poitrey <rs@dailymotion.com> Olivier Saingre <osaingre@gmail.com> Oracle Orange Orijetech, Inc. Özgür Kesim <oec-go@kesim.org> Pablo Lalloni <plalloni@gmail.com> Pablo Rozas Larraondo <pablo.larraondo@anu.edu.au> Pablo Santiago Blum de Aguiar <scorpus@gmail.com> Pádraig Kitterick <pádraigkitterick@gmail.com> Pallat Anchaleechamaikorn <yod.pallat@gmail.com> Palm Stone Games Paolo Giarrusso <p.giarrusso@gmail.com> Paolo Martini <mrtnpaolo@gmail.com> Parker Moore <parkmoore@gmail.com> Pascal S. de Kloe <pascal@quies.net> Pat Moroney <pat@pat.email> Patrick Crosby <patrick@stathat.com> Patrick Gavlin <pgavlin@gmail.com> Patrick Higgins

Table 3-1 (Cont.) Cloud Native Core Licensing Information

Provider	Component(s)	Licensing Information
		<patrick.allen.higgins@gmail.com> Patrick Lee <pattyshack101@gmail.com> Patrick Mézard <patrick@mezard.eu> Patrick Mylund Nielsen <patrick@patrickmn.com> Patrick Pelletier <pp.pelletier@gmail.com> Patrick Smith <pat42smith@gmail.com> Paul A Querna <paul.querna@gmail.com> Paul Boyd <boyd.paul2@gmail.com> Paul Hammond <paul@paulhammond.org> Paul Jolly <paul@myitcv.org.uk> Paul Lalonde <paul.a.lalonde@gmail.com> Paul Meyer <paul.meyer@microsoft.com> Paul PISCUC <paul.piscuc@gmail.com> Paul Querna <pquerna@apache.org> Paul Rosania <paul.rosania@gmail.com> Paul Ruest <pruest@gmail.com> Paul Sbarra <Sbarra.Paul@gmail.com> Paul Smith <paulsmith@pobox.com> <paulsmith@gmail.com> Paul Tyng <paul@paultyng.net> Paul van Brouwershaven <paul@vanbrouwershaven.com> Paulo Casaretto <pcasaretto@gmail.com> Pavel Paulau <pavel.paulau@gmail.com> Pavel Zinovkin <pavel.zinovkin@gmail.com> Pavlo Sumkin <ymkins@gmail.com> Pawel Knap <pawelknap88@gmail.com> Percy Wegmann <ox.to.a.cart@gmail.com> Perry Abbott <perry.j.abbott@gmail.com> Petar Maymounkov <petarm@gmail.com> Peter Armitage <peter.armitage@gmail.com> Peter Bourgon <peter@bourgon.org> Peter Conerly <pconerly@gmail.com> Peter Froehlich <peter.hans.froehlich@gmail.com> Peter Kleiweg <pkleiweg@xs4all.nl> Peter Moody <pmoody@uber.com> Peter Morjan <pmorjan@gmail.com> Peter Mundy <go.peter.90@gmail.com> Peter Nguyen <peter@mictis.com> Péter Surányi <speter.go1@gmail.com> Péter Szilágyi <peterke@gmail.com> Peter Teichman <pteichman@fastly.com> Peter Waldschmidt <peter@waldschmidt.com> Peter Waller <peter.waller@gmail.com> Peter Williams <pwil3058@gmail.com> Peter Zhang <i@ddatsh.com> Petrica Voicu <pvoicu@paypal.com> Phil Pearl <philip.j.r.pearl@gmail.com> Philip Børgesen <philip.borgesen@gmail.com> Philip Brown <phil@bolthole.com> Philip Hofer <phofer@umich.edu> Philip K. Warren <pkwarren@gmail.com> Philip Nelson <me@pnelson.ca> Pierre Durand <pierredurand@gmail.com> Pierre Prinetti <pierreprinetti@gmail.com> Pierre Roullon <pierre.roullon@gmail.com> Piers <google@hellopiers.pro> Pieter Droogendijk <pieter@binky.org.uk> Pietro Gagliardi <pietro10@mac.com> Piyush Mishra <piyush@codeitout.com> Platform.sh Pontus Leitzler <leitzler@gmail.com> Prashant Varanasi <prashant@prashantv.com> Pravendra Singh <hackpravj@gmail.com> Preetam Jinka <pj@preet.am> Qiuxuan Zhu <ilsh1022@gmail.com> Qualcomm Data Center, Inc. Quan Tran <qeed.quan@gmail.com> Quan Yong Zhai <qyzhai@gmail.com> Quentin Perez <qperez@ocs.online.net> Quentin Renard <contact@asticode.com> Quoc-Viet Nguyen <afelion@gmail.com> RackTop Systems Inc. Radek Sohlich <sohlich@gmail.com> Radu Berinde <radu@cockroachlabs.com> Rafal Jeczalik <rjeczalik@gmail.com> Raif S. Naffah <go@naffah-raif.name> RainTank Rajat Goel <rajat.goel2010@gmail.com> Rajath Agasthya <rajathagasthya@gmail.com> Rajender Reddy Kompally <rajenderreddykompally@gmail.com> Ralph Corderoy <ralph@inputplus.co.uk> Ramazan AYYILDIZ <rayyildiz@gmail.com> Raphael Geronimi <raphael.geronimi@gmail.com> Ravil Bikbulatov <weeellz12@gmail.com> RaviTeja Pothana <ravi.tezu@gmail.com> Ray Tung <rtung@thoughtworks.com> Raymond Kazlauskas <raima220@gmail.com> Red Hat, Inc. Reilly Watson <reillywatson@gmail.com> Reinaldo de Souza Jr <juniorz@gmail.com>

Table 3-1 (Cont.) Cloud Native Core Licensing Information

Provider	Component(s)	Licensing Information
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		<tilman.dilo@gmail.com> Tim Cooijmans <timcooijmans@gmail.com> Tim Cooper <tim.cooper@layeh.com> Tim Ebringer <tim.ebringer@gmail.com> Tim Heckman <t@heckman.io> Tim Henderson <tim.tadh@gmail.com> Tim Wright <tenortim@gmail.com> Timo Savola <timo.savola@gmail.com> Timo Truys <alkaloid.btx@gmail.com> Timothy Studd <tim@timstudd.com> Tobias Assarsson <tobias.assarsson@gmail.com> Tobias Columbus <tobias.columbus@gmail.com> Tobias Klauser <tklauser@distanz.ch> Todd Neal <todd@tneal.org> Tom Heng <zhm20070928@gmail.com> Tom Levy <tomlevy93@gmail.com> Tom Limoncelli <tal@whatexit.org> Tom Linford <tomlinford@gmail.com> Tom Payne <twpayne@gmail.com> Tom Thorogood <me+google@tomthorogood.co.uk> Tommy Schaefer <tommy.schaefer@teecom.com> Tomoya Ishizaki <zaq1tomo@gmail.com> Tonis Tiigi <tonistiigi@gmail.com> Tony Walker <walkert.uk@gmail.com> Tor Andersson <tor.andersson@gmail.com> Tormod Erevik Lea <tormodlea@gmail.com> Toshiki Shima <hayabusa1419@gmail.com> Totoro W <tw19881113@gmail.com> Travis Bischel <travis.bischel@gmail.com> Travis Cline <travis.cline@gmail.com> Trey Lawrence <lawrence.trey@gmail.com> Trey Roessig <trey.roessig@gmail.com> Trey Tacon <ttacon@gmail.com> Tristan Colgate <tcolgate@gmail.com> Tristan Oohry <oohry@gmail.com> Tristan Rice <rice@fn.lc> Troels Thomsen <troels@thomsen.io> Trung Nguyen <trung.n.k@gmail.com> Tudor Golubenco <tudor.g@gmail.com> Tugdual Saunier <tugdual.saunier@gmail.com> Tuo Shan <sturbo89@gmail.com> Tyler Bunnell <tylerbunnell@gmail.com> Tyler Treat <ttreat31@gmail.com> Uber Technologies Ugorji Nwoke <ugorji@gmail.com> Ulf Holm Nielsen <doktor@dyregod.dk> Ulrich Kunitz <uli.kunitz@gmail.com> Upthere, Inc. Uriel Mangado <uriel@berlinblue.org> Vadim Grek <vadimprog@gmail.com> Vadim Vygonets <unixdj@gmail.com> Vendasta Veselkov Konstantin <kostozyb@gmail.com> Victor Vrantchan <vrancean+github@gmail.com> Vignesh Ramachandra <vickyramachandra@gmail.com> Vincent Ambo <tazjin@googlemail.com> Vincent Batts <vbatts@hashbangbash.com> <vbatts@gmail.com> Vincent Vanackere <vincent.vanackere@gmail.com> Vinu Rajashekhar <vinutharaj@gmail.com> Vishvananda Ishaya <vishvananda@gmail.com> Vitor De Mario <vitordemario@gmail.com> Vladimir Mihailenco <vladimir.webdev@gmail.com> Vladimir Nikishenko <vova616@gmail.com> Vladimir Stefanovic <vladimir.stefanovic@imgtec.com> Vladimir Varankin <nek.narqo@gmail.com> Volker Dobler <dr.volker.dobler@gmail.com> W. Trevor King <wking@tremily.us> Wade Simmons <wade@wades.im> Wander Lairson Costa <wcosta@mozilla.com> Wayne Ashley Berry <wayneashleyberry@gmail.com> Weaveworks Wèi Cōngrui <crvv.mail@gmail.com> Wei Fu <fhfuwei@163.com> Wei Guangjing <vcc.163@gmail.com> Weichao Tang <tevic.tt@gmail.com> Wembley G. Leach, Jr <wembley.gl@gmail.com> Will Faught <will.faught@gmail.com> Will Storey <will@summercat.com> Willem van der Schyff <willemvds@gmail.com> William Chang <mr.williamchang@gmail.com> William Josephson <wjosephson@gmail.com> William Orr <will@worrbase.com> <ay1244@gmail.com> Wisdom Omuya <deafgoat@gmail.com> Wu Yunzhou <yunzhouwu@gmail.com> Xi Ruoyao <xry23333@gmail.com> Xia Bin <snyh@snyh.org> Xing Xing <mikespook@gmail.com> Xu Fei <badgangkiller@gmail.com> Xudong Zhang <felixmelon@gmail.com> Xudong Zheng

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		<7pkvm5aw@slicealias.com> Xuyang Kang <xuyangkang@gmail.com> Yahoo Inc. Yamagishi Kazutoshi <ykzts@desire.sh> Yann Kerhervé <yann.kerherve@gmail.com> Yann Salaün <yannsalaun1@gmail.com> Yao Zhang <lunaria21@gmail.com> Yasha Bubnov <girokompass@gmail.com> Yasuharu Goto <matope.ono@gmail.com> Yasuhiro Matsumoto <mattn.jp@gmail.com> Yasuyuki Oka <yasuyk@gmail.com> Yazen Shunnar <yazen.shunnar@gmail.com> Yestin Sun <ylh@pdx.edu> Yissakhar Z. Beck <yissakhar.beck@gmail.com> Yo-An Lin <yaoanlin93@gmail.com> Yongjian Xu <i3dmaster@gmail.com> Yorman Arias <cixtords@gmail.com> Yoshiyuki Kanno <nekotaroh@gmail.com> <yoshiyuki.kanno@stoic.co.jp> Yoshiyuki Mineo <yoshiyuki.mineo@gmail.com> Yosuke Akatsuka <yosuke.akatsuka@gmail.com> Yuji Yaginuma <yuuji.yaginuma@gmail.com> Yukihiro Nishinaka <6elpinal@gmail.com> Yury Smolsky <yury@smolsky.by> Yusuke Kagiwada <block.rxckin.beats@gmail.com> Yuusei Kuwana <kuwana@kumama.org> Yuval Pavel Zholkover <paulzhol@gmail.com> Zac Bergquist <zbergquist99@gmail.com> Zach Bintliff <zintliff@gmail.com> Zach Gershman <zachgersh@gmail.com> Zachary Gershman <zgershman@pivotal.io> Zak <zrjknill@gmail.com> Zakatell Kanda <hi@zkanda.io> Zellyn Hunter <zellyn@gmail.com> Zemanta d.o.o. Zev Goldstein <zeAppendix Ev.goldstein@gmail.com> Zheng Dayu <davidzheng23@gmail.com> Zhongtao Chen <chenzhongtao@126.com> Zhou Peng <p@ctriple.cn> Ziad Hatahet <hatahet@gmail.com> Zorion Arrizabalaga <zorionk@gmail.com> Максим Федосеев <max.faceless.frei@gmail.com> Роман Хавроненко <hagen1778@gmail.com> Тарас Буник <tbunyk@gmail.com> Фахриддин Балтаев <faxriddinjon@gmail.com> 嵩 <zs349596@gmail.com> 申 之 <bronzel1man@gmail.com>

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FasterXML, LLC	jackson-databind 2.9.10	Copyright (c) 2019 Tatu Saloranta <tatu.saloranta@iki.fi> APACHE 2.0 - See Appendix E ----- Below are 4th party dependencies # Jackson JSON processor Jackson is a high-performance, Free/Open Source JSON processing library. It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has been in development since 2007. It is currently developed by a community of developers, as well as supported commercially by FasterXML.com. -----jackson-core 2.9.10 ----- COPYRIGHT: Copyright (c) 2007- Tatu Saloranta, tatu.saloranta@iki.fi APACHE 2.0 - See Appendix E ## Credits A list of contributors may be found from CREDITS file, which is included in some artifacts (usually source distributions); but is always available from the source code management (SCM) system project uses. -----jackson-annotations 2.9.10----- COPYRIGHT: Copyright (c) 2007- Tatu Saloranta, tatu.saloranta@iki.fi APACHE 2.0 - See Appendix E
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FasterXML, LLC	jackson-datatype-joda 2.9.6	APACHE 2.0 - See Appendix E 4th party dependencies: jackson-annotations 2.9.0, Apache 2.0 jackson-core 2.9.6, Apache 2.0 jackson-databind 2.9.6, Apache 2.0 joda-time 2.7, Apache 2.0 APACHE 2.0 - See Appendix E
FasterXML, LLC	jackson-datatype-joda 2.9.7	APACHE 2.0 - See Appendix E 4th party dependencies: jackson-annotations 2.9.0, Apache 2.0 jackson-core 2.9.6, Apache 2.0 jackson-databind 2.9.6, Apache 2.0 joda-time 2.7, Apache 2.0 APACHE 2.0 - See Appendix E

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Oracle	JavaScript Extension Toolkit (JET) 5.1.0	JET - See Appendix L.

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opentracing-contrib	OpenTracing Spring Jaeger Starter 0.1.4	APACHE 2.0 - See Appendix E 4 th -party dependencies: jaeger-core v0.27.0 opentracing-api v0.31.0 opentracing-spring-tracer-configuration-starter v0.1.0 spring-boot-autoconfigure (optional) v1.5.12.RELEASE spring-boot-configuration-processor (optional) v1.5.12.RELEASE All are licensed under Apache 2.0. APACHE 2.0 - See Appendix E

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Table 3-1 (Cont.) Cloud Native Core Licensing Information

Provider	Component(s)	Licensing Information
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Pivotal Software, Inc	spring-boot-actuator 2.1.2	APACHE 2.0 - See Appendix E

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File 1 of 38: LICENSE

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===== File 2 of 38: config.GUESS

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===== File 3 of 38: configure

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===== File 5 of 38: build/shtool

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===== File 6 of 38: ext/bcmath/libbcmath/src/add.c

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 ===== File 8 of 38: ext/calendar: dow.c

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===== File 12 of 38: ext/gd/libgd/README

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