**OPEN SOURCE SOFTWARE NOTICE**

Please note we provide an open source software notice along with this product and/or this product firmware (in the following just “this product”). The open source software licenses are granted by the respective right holders. And the open source licenses prevail all other license information with regard to the respective open source software contained in the product, including but not limited to End User Software Licensing Agreement. This notice is provided on behalf of Huawei Technologies Co. Ltd. and any of its local subsidiaries which may have provided this product to you in your local country.

**Warranty Disclaimer**

**The open source software in this product is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY, without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the applicable licenses for more details.**

**Copyright Notice and License Texts**

**Software:** ansible 2.5.5

**Copyright notice:**

(c) 2015, Adam Števko <adam.stevko@gmail.com>  
(c) 2009 Jeremy Ashkenas, DocumentCloud Inc.  
(c) 2015, Maciej Delmanowski <drybjed@gmail.com>  
(c) 2014, Lorin Hochstein  
Copyright 2014, Max Riveiro, <kavu13@gmail.com>  
(c) Quentin Stafford-Fraser 2015  
Copyright (c) 2016, Toshio Kuratomi <tkuratomi@ansible.com>  
(c) 2016, Daniel Miranda <danielkza2@gmail.com>  
Copyright 2017 Michael De La Rue | Ansible  
Copyright (c) 2017 Ansible, Inc  
Copyright 2014, Red Hat, Inc.  
(c) 2017, Jon Hawkesworth (@jhawkesworth) <figs@unity.demon.co.uk>  
(c) 2012-2014, Ansible, Inc  
Copyright (c) 2017 Apstra Inc, <community@apstra.com>  
(c) 2015, Brian Coca <bcoca@ansible.com>  
Copyright (c) 2018 Red Hat, Inc.  
Copyright (C) 2014 AJ Bourg <aj@ajbourg.com>  
(c) 2012, Michael DeHaan <michael.dehaan@gmail.com>  
Copyright (c) 2016 Dimension Data  
(c) 2013, Paul Durivage <paul.durivage@rackspace.com>  
(c) 2016, Cumulus Networks <ce-ceng@cumulusnetworks.com>  
Copyright (c) Ansible Inc, 2016 All rights reserved.  
Copyright (c) 2015 Mike Mochan  
Copyright (c) 2016 Hewlett-Packard Enterprise  
(c) 2012-2014, Michael DeHaan <michael@ansible.com> and others  
(c) 2017, Yaacov Zamir <yzamir@redhat.com>  
(c) 2013-2014, Epic Games, Inc.  
(c) 2016, Andew Clarke <andrew@oscailte.org>  
(c) 2013, James Cammarata <jcammarata@ansible.com>  
(c) 2016, James Hogarth <james.hogarth@gmail.com>  
(c) 2015-2017, Toshio Kuratomi <tkuratomi@ansible.com>  
(c) 2015, Henrik Wallström <henrik@wallstroms.nu>  
(c) 2013, Jesse Keating <jesse.keating@rackspace.com, Paul Durivage <paul.durivage@rackspace.com>, Matt Martz <matt@sivel.net>  
Copyright (c) 2015 Michael Perzel  
Copyright (C): 2017, Ansible Project  
(c) 2015, Joseph Callen <jcallen () csc.com>  
(c) 2016, Saran Ahluwalia <ahlusar.ahluwalia@gmail.com>  
Copyright 2015 Google Inc. All Rights Reserved.  
Copyright (c) 2015 IBM  
(c) 2017, Tomas Karasek  
(c) 2018, Jason Vanderhoof <jason.vanderhoof@cyberark.com>  
(c) 2016, Ansible by Red Hat <info@ansible.com>  
(c) 2012-2014, Toshio Kuratomi <a.badger@gmail.com>  
(c) 2015, Paul Markham <pmarkham@netrefinery.com>  
Copyright (c) 2016, Rackspace Australia  
Copyright (c) 2012, Jim Richardson <weaselkeeper@gmail.com>  
(c) 2017, ansible by Red Hat  
(c) 2013-2014, Michael DeHaan <michael.dehaan@gmail.com>  
Copyright (C) 2007 Free Software Foundation, Inc. <http:fsf.org/>  
Copyright (2016-2017) Hewlett Packard Enterprise Development LP All rights reserved.  
(c) 2015, Manuel Sousa <manuel.sousa@gmail.com>  
(c) 2017, James Mighion <@jmighion>  
Copyright 2016 Ansible (RedHat, Inc)  
Copyright (c) 2014, Chris Church <chris@ninemoreminutes.com>  
(c) 2014, James Cammarata, <jcammarata@ansible.com>  
(c) 2016, Julian Barnett <jbarnett@tableau.com>  
(c) 2015, Dagobert Michelsen <dam@baltic-online.de>  
Copyright IBM Corp. 2017 Author(s): Andreas Nafpliotis <nafpliot@de.ibm.com>  
Copyright (c) 2016, René Moser <mail@renemoser.net>  
(c) 2015, René Moser <mail@renemoser.net>  
Copyright (C) 2015 LogicMonitor  
(c) 2017, Matt Martz <matt@sivel.net>  
(c) 2016, Ansible, Inc  
(c) 2017 Dag Wieers <dag@wieers.com>  
(c) 2016, Tomas Karasek <tom.to.the.k@gmail.com>  
Copyright (c) 2017 René Moser <mail@renemoser.net>  
(c) 2016-2017, Yanis Guenane <yanis+ansible@guenane.org>  
Copyright (c), meiliu@fusionlayer.com, 2017  
(c) 2012-17 Ansible Project  
Copyright 2012, Jeroen Hoekx <jeroen@hoekx.be>  
(c) 2017, Thom Wiggers <ansible@thomwiggers.nl>  
Copyright (c) 2017 Julien Stroheker, <juliens@microsoft.com>  
Copyright (c) 2016, Adfinis SyGroup AG Tobias Rueetschi <tobias.ruetschi@adfinis-sygroup.ch>  
Copyright (c) 2016, Hugh Ma <hugh.ma@flextronics.com>  
(c) 2016, Andrew Zenk <azenk@umn.edu>  
Copyright (c), Benjamin Jolivot <bjolivot@gmail.com>, 2014 All rights reserved.  
(c) 2013, Yap Sok Ann Written by Yap Sok Ann <sokann@gmail.com>  
Copyright (c) 2012, Marco Vito Moscaritolo <marco@agavee.com>  
(c) 2016, Eric Chou <ericc@a10networks.com>  
(c) 2012, Franck Cuny <franck@lumberjaph.net>  
(c) 2015, Logentries.com, Jimmy Tang <jimmy.tang@logentries.com>  
Copyright (c) 2017 F5 Networks Inc.  
(C) 2014, Matt Martz <matt@sivel.net>  
(c) 2016, Andrew Gaffney <andrew@agaffney.org>  
(c) 2017, Ansible Inc,  
(c) 2016, Benjamin Jolivot <bjolivot@gmail.com>  
Copyright (c) 2013, Michael Scherer <misc@zarb.org>  
Copyright (c) 2017, René Moser <mail@renemoser.net>  
(c) 2014, Chris Church <chris@ninemoreminutes.com>  
Copyright 2015, Trond Hindenes  
Copyright (c) 2013, John Dewey <john@dewey.ws>  
(c) 2018, Red Hat, Inc.  
(c) Quentin Stafford-Fraser 2015, with contributions gratefully acknowledged from: Andy Baker Federico Tarantini  
Copyright (c) 2016-2017 Hewlett Packard Enterprise Development LP import pytest  
Copyright (c) 2017 Yawei Wang, <yaweiw@microsoft.com>  
(c) 2015, Alejandro Guirao <lekumberri@gmail.com>  
(c) 2017, Red Hat, Inc.  
(c) 2015, Marc Abramowitz <marca@surveymonkey.com>  
(c) 2016, 2017 Jasper Lievisse Adriaanse <j@jasper.la>  
(c) 2017, Abhijeet Kasurde <akasurde@redhat.com>  
(c) 2015 Toshio Kuratomi <tkuratomi@ansible.com>  
copyright = u2016, Red Hat  
(c) 2013, bleader Written by bleader <bleader@ratonland.org>  
(c) 2017, Ted Elhourani <ted@bigswitch.com>  
(c) 2018, Jason Vanderhoof <jason.vanderhoof@cyberark.com>, Oren Ben Meir <oren.benmeir@cyberark.com>  
(c) 2017, Nokia  
(c) 2016, Stephan Lohse <dev-github@ploek.org>  
(c) 2015, Marius Gedminas <marius@pov.lt>  
(c) 2012, Derek Carter<goozbach@friocorte.com>  
copyright = u2015, Sandra A Wills  
(c) 2012, Dag Wieers <dag@wieers.com>  
(c)2016 Andrew Zenk <azenk@umn.edu>  
Copyright (c) 2017 Zim Kalinowski, <zikalino@microsoft.com>  
(c) 2014, Michael DeHaan <michael.dehaan@gmail.com>  
(c) 2013, Michael DeHaan <michael@ansible.com>  
Copyright (c) 2016 Hewlett-Packard Enterprise Corporation  
Copyright (c) 2015 CenturyLink  
(c) Fastly, inc 2016  
(c) 2013, Balazs Pocze <banyek@gawker.com>  
(c) 2013, Darryl Stoflet <stoflet@gmail.com>  
Copyright (c) 2016-2017 Hewlett Packard Enterprise Development LP  
(c) 2015, Matt Martz <matt@sivel.net>  
(c) 2017, René Moser <mail@renemoser.net>  
(c) 2013, seth vidal <skvidal@fedoraproject.org> red hat, inc  
Copyright 2016 Sam Yaple  
(c) 2014, James Tanner <tanner.jc@gmail.com>  
(c) 2016, Tom Melendez <tom@supertom.com>  
(c) 2016 Red Hat, Inc.  
(c) 2014, Jakub Jirutka <jakub@jirutka.cz>  
Copyright 2017, Ansible Project  
(c) 2017, Brian Coca  
Copyright (c) 2015, Hewlett-Packard Development Company, L.P.  
(c) 2017, Brian Coca <bcoca@redhat.com>  
(c) 2016, Jiri Tyr <jiri.tyr@gmail.com>  
(c) 2015, Steve Gargan <steve.gargan@gmail.com>  
Copyright 2014 jordonr <jordon@beamsyn.net>  
 Copyright 2010-2013 Joyent, Inc. All Rights Reserved. Use is subject to license terms.  
(c) 2017, Andrew Saraceni <andrew.saraceni@gmail.com>  
(c) 2017, Ansible by Red Hat, inc  
Copyright (c) 2014 Timothy Vandenbrande <timothy.vandenbrande@gmail.com>  
Copyright 2014 Jens Carl, Hothead Games Inc.  
(c) 2016 Allen Sanabria, <asanabria@linuxdynasty.org>  
(c) 2016, Mathieu Bultel <mbultel@redhat.com>  
(c) 2016, Allen Sanabria <asanabria@linuxdynasty.org>  
(c) 2016, techbizdev <techbizdev@paloaltonetworks.com>  
(c) 2016, Roman Belyakovsky <ihryamzik () gmail.com>  
(c) 2017, Will Thames <will.thames@xvt.com.au>  
Copyright (c) 2016 Ansible Project  
(c) 2015, Jose Armesto <jose@armesto.net>  
Copyright (c) 2016 Catalyst IT Limited  
Copyright (C) 2013, Peter Sprygada <sprygada@gmail.com>  
(c) 2017, Brian Coca <bcoca@ansible.com>  
(c) 2015, Darren Worrall <darren@iweb.co.uk>  
(c) 2013, Maykel Moya <mmoya@speedyrails.com>  
(C) 2012-2013, Michael DeHaan, <michael.dehaan@gmail.com>  
Copyright (C): 2015, Dag Wieers <dag@wieers.com>  
(c) 2014, Jasper N. Brouwer <jasper@nerdsweide.nl>  
(c) 2017, Ansible Project  
(c) 2014, Sebastien Rohaut <sebastien.rohaut@gmail.com>  
(C) 2015, Chris Houseknecht <chouse@ansible.com>  
(c) 2016, Matt Baldwin <baldwin@stackpointcloud.com>  
calculatemultipartetag Copyright (C) 2015 Tony Lastowka <tlastowka at gmail dot com>  
Copyright 2012 Dag Wieers <dag@wieers.com>  
(c) 2018, Matt Martz <matt@sivel.net>  
(c) 2017, Jasper Lievisse Adriaanse <j@jasper.la>  
(c) 2015, Benjamin Copeland (@bhcopeland) <ben@copeland.me.uk>  
(c) 2016, Gregory Shulov (gregory.shulov@gmail.com)  
(c) 2012-2014, Michael DeHaan <michael.dehaan@gmail.com>  
(c) 2012, Jan-Piet Mens <jpmens () gmail.com>  
(C) 2014, Jharrod LaFon, @JharrodLaFon  
Copyright 2017, Ken Celenza <ken@networktocode.com>  
(c) 2017 Ansible By Red Hat  
Based on local.py (c) 2012, Michael DeHaan <michael.dehaan@gmail.com>  
Copyright 2015 Cristian van Ee <cristian at cvee.org>  
Copyright (c) 2016, Pierre Jodouin <pjodouin@virtualcomputing.solutions>  
Copyright 2016 Red Hat | Ansible  
(c) 2015, Tim Hoiberg <tim.hoiberg@gmail.com>  
(c) 2016, Aleksei Kostiuk <unitoff@gmail.com>  
(c) 2016, Josh Bradley <jbradley(at)digitalocean.com>  
Copyright (c) 2015, René Moser <mail@renemoser.net>  
Copyright (c) 2013 Shaun Zinck <shaun.zinck at gmail.com>  
Copyright (c), Michael DeHaan <michael.dehaan@gmail.com>, 2012-2013  
&copy; Copyright 2015 <a href=http:ansible.com>Ansible, Inc.</a>.  
Copyright (c) 2017 Jon Meran <jonathan.meran@sonos.com>  
(c) 2014, GeekChimp - Franck Nijhof <franck@geekchimp.com>  
Copyright (c) 2017 Chris Hoffman <christopher.hoffman@gmail.com>  
Copyright 2016 Tomas Karasek <tom.to.the.k@gmail.com>  
(c) 2016, William L Thomson Jr  
libvirtlxc.py, (c) 2013, Michael Scherer <misc@zarb.org>  
Copyright (c) 2015, Darren Worrall <darren@iweb.co.uk>  
Copyright IBM Corp. 2016 Author(s): Andreas Nafpliotis <nafpliot@de.ibm.com>  
Copyright (c) 2018, Ansible Project  
Copyright (c), James Laska All rights reserved.  
Copyright 2010, John Resig Dual licensed under the MIT or GPL Version 2 licenses.  
(c) 2015, Leendert Brouwer (https://github.com/objectified)  
(c) 2017 Paul Neumann  
Copyright (c), Toshio Kuratomi, 2016  
Copyright (c) 2017 Philippe Dellaert <philippe@dellaert.org>  
Copyright 2016 Peter Sprygada <psprygada@ansible.com>  
(c) 2017, Daniel Korn <korndaniel1@gmail.com>  
(c) 2014, Ramon de la Fuente <ramon@delafuente.nl>  
(c) 2018, John Barker<gundalow@redhat.com>  
/etc/release: ( Open Storage Appliance 4.0.3-FP2 Copyright (c) 2014 Nexenta Systems, Inc.   
(C) Seth Edwards, 2014  
(c) 2017, Juan Manuel Parrilla <jparrill@redhat.com>  
(c) 2014, Michael Scherer <misc@zarb.org>  
(c) 2015, Mark Hamilton <mhamilton@vmware.com>  
Copyright (c) 2016 IBM  
(c) 2016, Gregory Shulov <gregory.shulov@gmail.com>  
Copyright (C) 2016 Rackspace US, Inc.  
(c) 2017, Frederic Van Espen <github@freh.be>  
(c) 2016, Alain Dejoux <adejoux@djouxtech.net>  
(c) 2013, John Dewey <john@dewey.ws>  
(c) 2014, Hewlett-Packard Development Company, L.P.  
Copyright (C) 2016 Matt Martz <matt@sivel.net>  
(c) 2017, Branko Majic <branko@majic.rs>  
(c) 2016, Ted Elhourani <ted@bigswitch.com>  
(c) 2013, Evan Wies <evan@neomantra.net>  
(c) 2013, Chatham Financial <oss@chathamfinancial.com>  
(c) 2012, Matt Wright <matt@nobien.net>  
(c) 2015, Corwin Brown <blakfeld@gmail.com>  
Copyright 2011 Twitter, Inc.  
Copyright 2014 Peter Oliver <ansible@mavit.org.uk>  
(c) 2015, Joerg Thalheim <joerg@higgsboson.tk>  
(c) 2012, Red Hat, Inc Written by Seth Vidal <skvidal at fedoraproject.org>  
(c) 2016 Michael Gruener <michael.gruener@chaosmoon.net>  
(c) 2013, Patrik Lundin <patrik@sigterm.se>  
(c) 2016, Andreas Olsson <andreas@arrakis.se>  
(c) 2016 James Turner <turnerjsm@gmail.com>  
Copyright (c) 2017 Bruno Medina Bolanos Cacho <bruno.medina@microsoft.com>  
Copyright (c) 2017 Citrix Systems  
Copyright (c) 2015, Normation SAS  
(c) 2014, Will Thames <will@thames.id.au>  
Copyright (c) 2017, David Passante (@dpassante)  
(c) 2014, Epic Games, Inc.  
(c) 2017, Steve Pletcher <steve@steve-pletcher.com>  
(c) 2015, Bede Carroll <bc+github () bedecarroll.com>  
(c) 2018, Will Thames <will@thames.id.au>  
Copyright (C) 2016 Guido Günther <agx@sigxcpu.org>, Daniel Lobato Garcia <dlobatog@redhat.com>  
Copyright 2016 Doalitic.  
(c) 2014, Mischa Peters <mpeters@a10networks.com>,  
Copyright 2014, Brian Coca <bcoca@ansible.com>  
(c) 2017, XuXinkun <xuxinkun@gmail.com>  
(c) 2015, Hewlett-Packard Development Company, L.P.  
Copyright 2016 Dino Occhialini <dino.occhialini@gmail.com>  
(c) 2013, Nimbis Services  
Copyright (C) 2017 Lenovo.  
(c) 2017, Alberto Murillo <alberto.murillo.silva@intel.com>  
(c) 2017, Markus Teufelberger <mteufelberger+ansible@mgit.at>  
(c) 2017, Wayne Witzel III <wayne@riotousliving.com>  
(c) 2016, Peter Sankauskas  
Copyright (c) 2017 Will Thames  
(c) 2014-2015, Epic Games, Inc.  
Copyright 2016 Google Inc.  
(c) 2017, sookido  
(c) 2018, Ansible by Red Hat, inc  
(c) 2016, Ryan Scott Brown <ryansb@redhat.com>  
Copyright 2016, Adrian Likins <alikins@redhat.com>  
Copyright (c) 2014 Hewlett-Packard Development Company, L.P.  
Copyright (C) 2016 PubNub Inc.  
(c) 2017, Sam Doran <sdoran@redhat.com>  
Copyright (c), Ansible Project 2017 All rights reserved.  
Copyright 2012, Seth Vidal <skvidal@fedoraproject.org>  
(c) 2016, Sumit Kumar <sumit4@netapp.com>  
(C) 2017 Ansible Project  
(c) 2013, John Whitbeck  
Copyright 2012, Dag Wieers <dag@wieers.com>  
(c) 2013, Phillip Gentry <phillip@cx.com>  
(c) 2013, Jeroen Hoekx <jeroen.hoekx@dsquare.be>  
(c) 2015, Toshio Kuratomi <tkuratomi@ansible.com>  
(c) 2016, Redhat Inc  
(c) 2016, Flavio Percoco <flavio@redhat.com>  
(c) 2016 Paul Durivage <paul.durivage@gmail.com>  
(c) 2013, Dylan Martin <dmartin@seattlecentral.edu>  
Copyright (c) 2017 Marc Sensenich <hello@marc-sensenich.com>  
Copyright 2017 Sloane Hertel <shertel@redhat.com>  
(c) 2017, Ryan Scott Brown <ryansb@redhat.com>  
Copyright (c) 2016 Jasper Lievisse Adriaanse <j at jasper.la>  
(c) 2012, Michael DeHaan <michael.dehaan@gmail.com>, and others  
Copyright (c), James Cammarata, 2016  
i.e., Copyright (c) 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015 Python Software Foundation; All Rights Reserved  
Copyright (c) 2012, Michael DeHaan <michael.dehaan@gmail.com>  
Copyright (c) 2017 Noah Sparks <nsparks@outlook.com>  
(c) 2016, James Cammarata <jimi@sngx.net>  
Copyright (C) 2008 Brian Nez <thedude at bri1 dot com>  
(c) 2016 Dag Wieers <dag@wieers.com>  
Copyright (c) 2017 Yuwei Zhou, <yuwzho@microsoft.com>  
(c) 2014, Mischa Peters <mpeters@a10networks.com>  
(c) 2013, Jan-Piet Mens <jpmens () gmail.com>  
(c) 2013, Nimbis Services, Inc.  
(c) 2017, Benjamin Jolivot <bjolivot@gmail.com>  
(c) 2015, Michael DeHaan <michael.dehaan@gmail.com>  
Copyright (c) 2016 F5 Networks Inc.  
(c) 2016 Michael De La Rue  
(c) 2014, Trond Hindenes <trond@hindenes.com>, and others  
Copyright (c) 2017 Ansible Project  
Copyright 2015, Phil Schwartz <schwartzmx@gmail.com>  
(c) 2017, Red Hat, inc  
(c) 2017, Ansible by RedHat Inc,  
(c) 2013, Michael DeHaan <michael.dehaan@gmail.com>  
(c) 2016, Thierno IB. BARRY @barryib  
Copyright 2017, Jason Edelman <jason@networktocode.com>  
(c) 2014, Steve Salevan <steve.salevan@gmail.com>  
(c) 2013, James Martin <jmartin@basho.com>, Drew Kerrigan <dkerrigan@basho.com>  
Copyright 2016, Toshio Kuratomi <tkuratomi@ansible.com>  
Copyright 2013 Bruce Pennypacker <bruce@pennypacker.org>  
(c) 2014, Maciej Delmanowski <drybjed@gmail.com>  
(c) 2013, Greg Buehler  
Copyright (c) 2015 Lawrence Leonard Gilbert <larry@L2G.to>  
Copyright 2017 F5 Networks Inc.  
(c) 2017 Toshio Kuratomi <tkuraotmi@ansible.com>  
(c) 2016, Michael Price <michael.price@netapp.com>  
(c) 2015, Yannig Perre <yannig.perre(at)gmail.com>  
(c) 2016, Thilo Uttendorfer <tlo@sengaya.de>  
(c) 2015, Michael Scherer <mscherer@redhat.com>  
(c) 2017, Kairo Araujo <kairo@kairo.eti.br>  
(c) 2017, Patrick Deelman <patrick@patrickdeelman.nl>  
(c) 2013-2016, Michael DeHaan <michael.dehaan@gmail.com>  
If true, (C) Copyright ... is shown in the HTML footer. Default is True.  
Copyright (c) 2015, Jesse Keating <jlk@derpops.bike>  
Copyright (c) 2016 Peter Sprygada, <psprygada@ansible.com>  
(c) 2012, Afterburn <http://github.com/afterburn>  
(c) 2015, Heyo  
(c) 2014, Toshio Kuratomi <tkuratomi@ansible.com>  
copyright @ 2015 VMware, Inc.  
(c) 2012-2014, Chris Meyers <chris.meyers.fsu@gmail.com>  
(c) 2015-2016, Vlad Glagolev <scm@vaygr.net>  
(c) 2017 Fortinet, Inc All rights reserved.  
(c) 2015, Peter Sprygada <psprygada@ansible.com>  
Copyright 2015 Peter Sprygada <psprygada@ansible.com>  
Copyright 2017 Chris Meyers <cmeyers@ansible.com>  
Copyright (c), Jonathan Mainguy <jon@soh.re>, 2015 Most of this was originally added by Sven Schliesing @muffl0n in the mysqluser.py module All rights reserved.  
(c) 2014, James Cammarata <jcammarata@ansible.com>  
(c) 2015, David Wittman <dwittman@gmail.com>  
(c) 2015, 2017 Toshio Kuratomi <tkuratomi@ansible.com>  
(c) 2012-17 Ansible Project from future import (absoluteimport, division, printfunction)  
Copyright (c) 2013, Benno Joy <benno@ansible.com>  
(c) 2017 Apstra Inc, <community@apstra.com>  
Copyright (C) 2016 maxn nikolaev.makc@gmail.com  
(c) 2018 Red Hat, Inc.  
Copyright (C) 2015 Matt Martz <matt@sivel.net>  
(c) 2016, Yanis Guenane <yanis+ansible@guenane.org>  
Copyright (c) 2017 Red Hat Inc.  
(c) 2014, Kevin Carter <kevin.carter@rackspace.com>  
(c) 2015, Trond Hindenes <trond@hindenes.com>, and others  
Copyright (c) 2013, Jesse Keating <jesse.keating@rackspace.com>  
Copyright (C) 2013 Mark Mandel <mark@compoundtheory.com>  
(c) 2016, Jonathan Mainguy <jon@soh.re>  
(c) 2015, Allen Sanabria <asanabria@linuxdynasty.org>  
(c) 2016, Marcin Skarbek <github@skarbek.name>  
Copyright (c), Franck Cuny <franck.cuny@gmail.com>, 2014 All rights reserved.  
(c) 2012-2015, Michael DeHaan <michael.dehaan@gmail.com>  
(c) 2015, Billy Kimble <basslines@gmail.com>  
(c) 2017, Peter Sprygada <psprygad@redhat.com>  
(c) 2015, Brian Coca <briancoca+dev@gmail.com>  
(c) 2015-2016, Jiri Tyr <jiri.tyr@gmail.com>  
(c) 2015, Jon Hawkesworth (@jhawkesworth) <figs@unity.demon.co.uk>  
Copyright (C) 2015 Rackspace US, Inc.  
Copyright 2018 Red Hat | Ansible  
Copyright (C) 2014 Andrew Rothstein <andrew.rothstein at gmail.com>  
(c) 2014, Daniel Beneyto <daniel.beneyto@abiquo.com>  
(c) 2016, Matt Davis <mdavis@ansible.com>  
Copyright (c) 2017 Eike Frost <ei@kefro.st>  
Copyright (c), Simon Dodsley <simon@purestorage.com>,2017 All rights reserved.  
(c) 2017 Red Hat, Inc.  
(c) 2017, Steven Bambling <smbambling@gmail.com>  
(c) 2013, berenddeboer Written by berenddeboer <berend@pobox.com>  
 Copyright 2010 Sun Microsystems, Inc. All Rights Reserved.  
(c) Quentin Stafford-Fraser and Andy Baker 2015  
(c) 2014, Ramon de la Fuente <ramon@delafuente.nl>)  
Copyright (c), Google Inc, 2017  
Copyright (C) 2017 Google  
(C) 2016, Joel, http://github.com/jjshoe  
(c) 2013, Raul Melo Written by Raul Melo <raulmelo@gmail.com>  
Copyright (C) 2017 Lenovo, Inc.  
All Rights Reserved. Copyright (c) 2011 Oracle. All Rights Reserved.   
(c) 2013, Adam Miller (maxamillion@fedoraproject.org)  
Copyright 2017 Swetha Chunduri (@schunduri)  
(c) 2013, Serge van Ginderachter <serge@vanginderachter.be>  
(c) 2016, Abdoul Bah (@helldorado) <bahabdoul at gmail.com>  
(c) 2017 Dell EMC.  
(c) 2017, Netservers Ltd. <support@netservers.co.uk>  
(c) 2017, NetApp, Inc  
(c) 2014, 2017 Toshio Kuratomi <tkuratomi@ansible.com>  
Copyright (c) 2017 Tim Rightnour <thegarbledone@gmail.com>  
Copyright (C) 2014 Mathieu GAUTHIER-LAFAYE <gauthierl@lapth.cnrs.fr>  
(c) 2017, Loic Blot <loic.blot@unix-experience.fr>  
(c) 2016 RedHat  
(c) 2012, Michael DeHaan, <michael.dehaan@gmail.com>  
(c) 2017 Ansible Project from future import (absoluteimport, division, printfunction)  
(c) 2016, Jon Hawkesworth (@jhawkesworth) <figs@unity.demon.co.uk>  
(c) 2017, Ansible by Red Hat, Inc  
Copyright (c) 2014, Toshio Kuratomi <tkuratomi@ansible.com>  
Copyright (c) 2016 Dimension Data Authors: - Aimon Bustardo <aimon.bustardo@dimensiondata.com> - Bert Diwa <Lamberto.Diwa@dimensiondata.com> - Adam Friedman <tintoy@tintoy.io>  
i.e., Copyright (c) 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017 Python Software Foundation; All Rights Reserved are retained in Python alone or in any derivative version prepared by Licensee.  
Copyright (c) 2017-18, Ansible Project  
Copyright 2011, Red Hat, Inc.  
(c) 2013, David Stygstra <david.stygstra@gmail.com>  
(c) 2014, Kent R. Spillner <kspillner@acm.org>  
(c) 2016, Samuel Boucher <boucher.samuel.c@gmail.com>  
Copyright (c) 2016 Sertac Ozercan, <seozerca@microsoft.com>  
(c) 2013, Jan-Piet Mens <jpmens(at)gmail.com>  
(c) 2017, Edward Nunez <edward.nunez@cyberark.com>  
(c) 2016, Patrick Ogenstad <@ogenstad>  
Copyright 2012, Tim Bielawa <tbielawa@redhat.com>  
(c) 2017, Nokia This file is part of Ansible  
(c) 2017, Michael De La Rue  
(c) 2013 Patrik Lundin <patrik.lundin.swe@gmail.com>  
Copyright (c) 2017 Ansible Project import json  
(c) 2018, Jordan Borean <jborean@redhat.com>  
Copyright (c) Ansible Project  
(c) 2016, Deepak Kothandan <deepak.kothandan@outlook.com>  
(c) 2014, Vedit Firat Arig <firatarig@gmail.com>  
(c) 2014, Nandor Sivok <dominis@haxor.hu>  
(c) 2013, Daniel Jaouen <dcj24@cornell.edu>  
(c) 2015, Jonathan Lestrelin <jonathan.lestrelin@gmail.com>  
(c) 2015, Ansible Project  
Copyright (c), Toshio Kuratomi <a.badger@gmail.com>, 2016  
(c) 2013, Alexander Winkler <mail () winkler-alexander.de>  
Copyright (c) 2017 Ansible Project from future import (absoluteimport, division, printfunction)  
(c) 2013, Romeo Theriault <romeot () hawaii.edu>  
(c) 2017, Toshio Kuratomi <tkuratomi@ansible.com>  
2015 Igor Khomyakov <homyakov@gmail.com>  
(c) 2014, Serge van Ginderachter <serge@vanginderachter.be>  
Copyright (c) 2016 Ansible, Inc  
(C) 2013, James Cammarata <jcammarata@ansible.com>  
Copyright (c) 2016 Julien Stroheker, <juliens@microsoft.com>  
(c) 2018, Michael De La Rue <siblemitcom.mddlr(at)spamgourmet.com>  
(c) 2017, Kenneth D. Evensen <kevensen@redhat.com>  
Copyright(c) 2014, Matthew Vernon <mcv21@cam.ac.uk>  
(c) 2017, Marc-Aurèle Brothier @marcaurele  
(c) 2015, Peter Mounce <public@neverrunwithscissors.com>  
 Copyright 2010-2012 Joyent, Inc. All Rights Reserved.  
(c) 2017, Red Hat Inc.  
(c) 2013, Jimmy Tang <jcftang@gmail.com>  
(c) 2013, Scott Anderson <scottanderson42@gmail.com>  
(c) 2016, Adrian Likins <alikins@redhat.com>  
(c) 2016, James Tanner  
Copyright (c) 2018 Ansible Project  
Copyright 2018 Red Hat Inc.  
(c) 2013, Benno Joy <benno@ansible.com>  
(c) 2014, Hiroaki Nakamura <hnakamur@gmail.com>  
(c) 2016 Toshio Kuratomi <tkuratomi@ansible.com>  
(c) 2017, Roman Belyakovsky <ihryamzik () gmail.com>  
(c) 2016, Tom Melendez (@supertom) <tom@supertom.com>  
(c) 2015-16 Florian Haas, hastexo Professional Services GmbH <florian@hastexo.com>  
Copyright (c), Gaurav Rastogi <grastogi@avinetworks.com>, 2017 All rights reserved.  
(c) 2012-2014, Michael DeHaan <michael.dehaan@gmail.com> and others  
Copyright (c) 2015 Ansible, Inc.  
Copyright © 2018 Red Hat, Inc. <br/>  
(c) 2016, Adam Števko <adam.stevko@gmail.com>  
(c) 2015, Michael Scherer <misc@zarb.org>  
(c) 2013-2014, Christian Berendt <berendt@b1-systems.de>  
(c) 2012, Peter Sankauskas  
(c) 2016, John Barker <jobarker@redhat.com>  
Copyright 2013 Dag Wieers <dag@wieers.com>  
(c) 2016, Indrajit Raychaudhuri <irc+code@indrajit.com>  
(c) 2014, Michael Warkentin <mwarkentin@gmail.com>  
(c) 2016, Ansible, inc  
(c) 2013, Sebastien Goasguen <runseb@gmail.com>  
Copyright (c) 2017 Obezimnaka Boms, <t-ozboms@microsoft.com>  
(c) 2014, Ravi Bhure <ravibhure@gmail.com>  
(c) 2016, Dag Wieers <dag@wieers.com>  
(c) 2017 Red Hat Inc.  
(c) 2014, Mischa Peters <mpeters@a10networks.com>, Eric Chou <ericc@a10networks.com>  
(c) 2013, Alexander Bulimov <lazywolf0@gmail.com>  
(c) 2014, Jens Depuydt <http://www.jensd.be>  
(c) 2018 Red Hat Inc.  
Copyright (c) 2015, Toshio Kuratomi <tkuratomi@ansible.com>  
Copyright (c) 2010-2017 Benjamin Peterson  
Copyright (c) 2013 Matt Hite <mhite@hotmail.com>  
Copyright (c) 2017, Paul Baker <paul@paulbaker.id.au>  
(c) 2014, Anders Ingemann <aim@secoya.dk>  
Copyright (c) 2015 Peter Sprygada, <psprygada@ansible.com>  
Copyright (c) 2018 Matt Martz <matt@sivel.net>  
Copyright (c) 2016 Matt Davis, <mdavis@ansible.com>  
(c) 2014, Justin Lecher <jlec@gentoo.org>  
(c) 2014, Matt Martz <matt@sivel.net>, and others  
(c) 2016, Toshio Kuratomi <tkuratomi@ansible.com>  
(c) 2015, Marius Gedminas <marius@gedmin.as>  
Copyright (c) 2017 Cisco and/or its affiliates.  
(c) 2016, Bill Wang <ozbillwang(at)gmail.com>  
(c) 2014, Kim Nørgaard Written by Kim Nørgaard <jasen@jasen.dk>  
All Rights Reserved. Copyright (c) 2010 Oracle. All Rights Reserved.   
(c) 2014, Matt Martz <matt@sivel.net>  
(c) 2017, Simon Dodsley <simon@purestorage.com>  
(c) 2014 James Cammarata, <jcammarata@ansible.com>  
(c) 2017, Ted Trask <ttrask01@yahoo.com>  
(c) 2013, Johan Wiren <johan.wiren.se@gmail.com>  
Copyright (c) 2017 Pierre-Louis Bonicoli <pierre-louis@libregerbil.fr>  
(c) 2012, Brad Olson <brado@movedbylight.com>  
(c) 2017, Vitaliy Zhhuta <zhhuta () gmail.com>  
(c) 2013, Ivan Vanderbyl <ivan@app.io>  
(c) 2017, Thomas Caravia <taca@kadisius.eu>  
(c) 2017, Arie Bregman <abregman@redhat.com>  
(c) 2012, Daniel Hokka Zakrisson <daniel@hozac.com>  
(c) 2016, NetApp, Inc  
(c) 2016, Loic Blot <loic.blot@unix-experience.fr>  
(c) 2017, Marat Bakeev <hawara(at)gmail.com>  
Copyright (c), Toshio Kuratomi <tkuratomi@ansible.com>, 2015  
Copyright (c) 2017 Sertac Ozercan <seozerca@microsoft.com>  
(c) 2016, Charles Paul <cpaul@ansible.com>  
Copyright (c) 2014, Chris Schmidt <chris.schmidt () contrastsecurity.com>  
(c) 2012, David DaviXX CHANIAL <david.chanial@gmail.com>  
(c) 2016, René Moser <mail@renemoser.net>  
(c) 2016 - Red Hat, Inc. <info@ansible.com>  
 OmniOS v11 r151012 Copyright 2014 OmniTI Computer Consulting, Inc. All rights reserved. Use is subject to license terms.  
(c) 2014, Gabe Mulley <gabe.mulley@gmail.com>  
Copyright (c), Wayne Witzel III <wayne@riotousliving.com>  
Copyright 2017 Toshio Kuratomi <tkuratomi@ansible.com>  
(c) 2017, Dag Wieers <dag@wieers.com>  
(c) 2015 Brian Ccoa, <bcoca@ansible.com>  
(c) 2016, Olivier Boukili <boukili.olivier@gmail.com>  
(c) 2017, Paul Baker <@paulquack>  
Copyright 2017 Radware LTD.  
(c) 2016 Guido Günther <agx@sigxcpu.org>  
(c) 2015, Sebastian Kornehl <sebastian.kornehl@asideas.de>  
(c) 2016, Hiroaki Nakamura <hnakamur@gmail.com>  
Copyright 2017 Dag Wieers <dag@wieers.com>  
Copyright (2016-2017) Hewlett Packard Enterprise Development LP  
Copyright 2011 Twitter, Inc Licensed under the Apache License v2.0  
Based on chroot.py (c) 2013, Maykel Moya <mmoya@speedyrails.com>  
(c) 2016, Matthew Gamble <git@matthewgamble.net>  
Copyright (c) 2016 Red Hat, Inc.  
Copyright (c) 2015, Marius Gedminas  
Copyright 2013 Matt Coddington <coddington@gmail.com>  
(c) 2015, Jonathan Davila <jdavila(at)ansible.com>  
(c) 2013, Steven Dossett <sdossett@panath.com>  
(C) 2016, Ievgen Khmelenko <ujenmr@gmail.com>  
(c) 2016, Artem Feofanov <artem.feofanov@gmail.com>  
Copyright 2014 Benjamin Curtis <benjamin.curtis@gmail.com>  
(c) 2012, Marco Vito Moscaritolo <marco@agavee.com>  
copyright = 2013-2018 Ansible, Inc  
(c) 2015, Filipe Niero Felisbino <filipenf@gmail.com>  
(c) 2013, Matthias Vogelgesang <matthias.vogelgesang@gmail.com>  
(c) 2017, 2018 Genome Research Ltd.  
(c) 2016 Red Hat Inc.  
(C) 2015, Tom Paine, <github@aioue.net>  
Copyright (c) 2017-18, Abhijeet Kasurde (akasurde@redhat.com)  
Copyright (c), Gregory Shulov <gregory.shulov@gmail.com>,2016 All rights reserved.  
(c) 2012, Jan-Piet Mens <jpmens(at)gmail.com>  
(c) 2016, Marcos Diez <marcos@unitron.com.br>  
Copyright (c) 2016 Pason System Corporation  
Copyright (c), Toshio Kuratomi <tkuratomi@ansible.com> 2016  
(c) 2013, Michael Scherer <misc@zarb.org>  
(C) 2015, Brian Coca <bcoca@ansible.com>  
Copyright 2017, Dag Wieers <dag@wieers.com>  
(c) 2016, Timothy Vandenbrande <timothy.vandenbrande@gmail.com>  
(c) 2015, Phil Schwartz <schwartzmx@gmail.com>  
Copyright 2015 Marius Gedminas <marius@gedmin.as>  
(c) 2013, Patrick Callahan <pmc@patrickcallahan.com>  
Copyright (c) 2016 Thomas Stringer, <tomstr@microsoft.com>  
(c) 2016 Matt Clay <matt@mystile.com>  
(c) 2016, Pierre Jodouin <pjodouin@virtualcomputing.solutions>  
(c) 2015, Ansible, Inc  
(c) 2015, Andrew Gaffney <andrew@agaffney.org>  
(c) 2016, Leandro Lisboa Penz <lpenz at lpenz.org>  
(c) 2015, Mathew Davies <thepixeldeveloper@googlemail.com>  
(c) 2014, Michael J. Schultz <mjschultz@gmail.com>  
Copyright (c) 2015, Matt Davis <mdavisansible@rolpdog.com>  
(c) 2013, Javier Candeira <javier@candeira.com>  
(c) 2017 Ansible Project  
(c) 2015, Matt Makai <matthew.makai@gmail.com>  
Copyright 2017, Liran Nisanov <lirannis@gmail.com>  
and jail.py (c) 2013, Michael Scherer <misc@zarb.org>  
(c) 2017, Paul B. <paul@bonaud.fr>  
(c) 2016 Olaf Kilian <olaf.kilian@symanex.com>  
Copyright 2017 Red Hat | Ansible, Alex Grönholm <alex.gronholm@nextday.fi>  
Copyright (C) 2015 CallFire Inc.  
(c) 2017, Davis Phillips davis.phillips@gmail.com  
(c) 2016, Ansible, a Red Hat company  
(c) 2015 Peter Sprygada, <psprygada@ansible.com>  
Copyright 2015 IIX Inc.  
(c) 2012, Boyd Adamson <boyd () boydadamson.com>  
(c) 2015, Werner Dijkerman (ikben@werner-dijkerman.nl)  
(c) 2014, Dimitrios Tydeas Mengidis <tydeas.dr@gmail.com>  
Copyright (c), Ted Timmons <ted@timmons.me>, 2017.  
Copyright 2015 WP Engine, Inc. All rights reserved.  
(c) 2013, Bradley Young <young.bradley@gmail.com>  
(c) 2017, Alejandro Gomez <alexgomez2202@gmail.com>  
Copyright 2016 Ansible RedHat, Inc  
(c) 2014, Trond Hindenes <trond@hindenes.com>  
Copyright (c) 2015-2017 Ansible Project  
(c) 2014, Tomas Karasek <tomas.karasek@digile.fi>  
(c) 2017 Michael Tinning  
Copyright 2010, The Dojo Foundation Released under the MIT, BSD, and GPL Licenses.  
(c) 2015, Patrick F. Marques <patrickfmarques@gmail.com>  
(c) 2017, Joris Weijters <joris.weijters@gmail.com>  
(c) 2015, Ensighten <infra@ensighten.com>  
(c) 2015, Toshio Kuraotmi <tkuratomi@ansible.com>  
Copyright (c) 2012-2014, Michael DeHaan <michael.dehaan@gmail.com>  
Copyright 2016 F5 Networks Inc.  
Copyright 2017 RedHat, inc  
Copyright 2015, Hans-Joachim Kliemeck <git@kliemeck.de>  
(c) 2014, Paul Durivage <paul.durivage@rackspace.com>, Trond Hindenes <trond@hindenes.com> and others  
(c) 2017, Gaudenz Steinlin <gaudenz.steinlin@cloudscale.ch>  
(c) 2018 Ansible Project from future import (absoluteimport, division, printfunction)  
(c) 2017 Red Hat, Inc  
Copyright 2015 Abhijit Menon-Sen <ams@2ndQuadrant.com>  
Copyright © 2018 Red Hat, Inc.  
Copyright (c) 2016 Seth Michael Larson  
(c) 2017, Pierre-Louis Bonicoli <pierre-louis@libregerbil.fr>  
Copyright (C) 2016 Guido Günther <agx@sigxcpu.org>  
(c) 2013, Dan Slimmon  
(c) 2014, Steve Smith <ssmith@atlassian.com>  
(C) 2012, Michael DeHaan, <michael.dehaan@gmail.com>  
Copyright © 2015 Sam Liu <sam.liu@activenetwork.com>  
Copyright (c) 2016 Dell Inc.  
Copyright (c) 2016 Thomas Krahn (@Nosmoht)  
(c) 2016, Kamil Szczygiel <kamil.szczygiel () intel.com>  
Copyright (c) 2017, Daniel Korn <korndaniel1@gmail.com>  
Copyright (c) 2016 Bruno Medina Bolanos Cacho, <bruno.medina@microsoft.com>  
(c) 2017, Alen Komic  
(c) 2016, Peter Sagerson <psagers@ignorare.net>  
(c) 2017, Michael Eaton <meaton@iforium.com>  
(c) 2012, Elliott Foster <elliott@fourkitchens.com>  
Copyright (c) 2015 Jonathan Mainguy <jon@soh.re>  
(c) 2012, Jeroen Hoekx <jeroen@hoekx.be>  
(c) 2017, Tennis Smith, http://github.com/gamename  
Copyright (c) 2017 Sertac Ozercan, <seozerca@microsoft.com>  
(c) 2015, Adam Keech <akeech@chathamfinancial.com>, Josh Ludwig <jludwig@chathamfinancial.com>  
Copyright 2018 Alan Rominger <arominge@redhat.com>  
(c) 2012-2013, Timothy Appnel <tim@appnel.com>  
(c) 2015-2016, Hewlett Packard Enterprise Development Company LP  
Copyright (c) 2015 VMware, Inc. All Rights Reserved.  
(c) 2014 Michael DeHaan, <michael@ansible.com>  
(C) 2014-2015, Matt Martz <matt@sivel.net>  
(c) 2015, Kevin Brebanov <https://github.com/kbrebanov>  
(c) 2014, Chris Hoffman <choffman@chathamfinancial.com>  
Copyright (c) 2017, Abhijeet Kasurde (akasurde@redhat.com)  
Copyright (c) 2018, René Moser <mail@renemoser.net>  
(c) 2015, Linus Unnebäck <linus@folkdatorn.se>  
/etc/release: ( SmartOS x8664 Copyright 2010 Sun Microsystems, Inc. All Rights Reserved.  
(c) 2015, Stefan Berggren <nsg@nsg.cc>  
Copyright (c) 2017, Abhijeet Kasurde <akasurde@redhat.com>  
(c) 2015, 2016 Daniel Lobato <elobatocs@gmail.com>  
(c) 2016, Joe Adams <@sysadmind>  
(c) 2014, Brian Coca, Josh Drake, et al  
(c) 2015, Ansible Inc,  
(c) 2013, Jayson Vantuyl <jayson@aggressive.ly>  
Copyright (c) 2017 Red Hat, Inc.  
(c) 2015, Jefferson Girão <jefferson@girao.net>  
(c) 2012, Mark Theunissen <mark.theunissen@gmail.com>  
Copyright (c) 2017 Dell Inc.  
(c) 2018, Jean-Philippe Evrard <jean-philippe@evrard.me>  
(c) 2016, Fabrizio Colonna <colofabrix@tin.it>  
Copyright (c) 2017 Willem van Ketwich  
(c) 2015, Yannig Perre <yannig.perre@gmail.com>  
i.e., Copyright (c) 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014 Python Software Foundation; All Rights Reserved are retained in Python alone or in any derivative version prepared by Licensee.  
(c) 2017, Simon Dodsley (simon@purestorage.com)  
(c) 2016, Matt Martz <matt@sivel.net>  
(c) 2015, Indrajit Raychaudhuri <irc+code@indrajit.com>  
Copyright 2013 Google Inc.  
(c) 2015, Russell Teague <rteague2 () csc.com>  
Copyright 2016 Jakub Jursa <jakub.jursa1@gmail.com>  
(c) 2016, Steve Baker <sbaker@redhat.com>  
Copyright (c) 2015 Ansible, Inc  
(c) 2016, Jiangge Zhang <tonyseek@gmail.com>  
(c) 2017, Daniele Lazzari <lazzari@mailup.com>  
(c) 2013, Patrick Pelletier <pp.pelletier@gmail.com>  
(c) 2017, Yanis Guenane <yanis+ansible@guenane.org>  
(c) 2018, Chris Houseknecht <@chouseknecht>  
(c) 2016, Peter Sprygada <psprygada@ansible.com>  
(c) 2017 Kedar Kekan (kkekan@redhat.com)  
(c) 2017 Cisco Systems Inc.  
Copyright (c) 2015 Hewlett-Packard Development Company, L.P.  
Copyright (c), Michael DeHaan <michael.dehaan@gmail.com>, 2012-2013 All rights reserved.  
(c) 2016-2017, Cumulus Networks <ce-ceng@cumulusnetworks.com>  
(C) 2017 Red Hat Inc.  
(c) 2013, 2014, Jan-Piet Mens <jpmens () gmail.com>  
(c) 2013, Andrew Dunham <andrew@du.nham.ca>  
(c) 2017 Michael De La Rue  
(c) 2017 Toshio Kuratomi <tkuratomi@ansible.com>  
Copyright (c) 2017, Eike Frost <ei@kefro.st>  
(c) 2015, Jan-Piet Mens <jpmens(at)gmail.com>  
Copyright (c) 2017 Artem Zinenko <zinenkoartem@gmail.com>  
Copyright (c) 2015 IBM Corporation  
(c) 2016, Thibaud Morel lHorset <teebes@gmail.com>  
Copyright 2017 Google Inc.  
(c) 2017, Adrian Likins <alikins@redhat.com>  
/etc/release: ( Open Storage Appliance v3.1.6 Copyright (c) 2014 Nexenta Systems, Inc.   
(c) 2016, Steve Kuznetsov <skuznets@redhat.com>  
(c) 2015, Florian Apolloner <florian@apolloner.eu>  
(c) 2014, Jonathan Lestrelin <jonathan.lestrelin@gmail.com>  
(c) 2014, Paul Durivage <paul.durivage@rackspace.com>, and others  
Copyright 2015 Igor Gnatenko <i.gnatenko.brain@gmail.com>  
(c) 2016-2017 Ansible Project  
(c) 2013, Aaron Bull Schaefer <aaron@elasticdog.com>  
and chroot.py (c) 2013, Maykel Moya <mmoya@speedyrails.com>  
Copyright (c) 2002-2016, Cisco Systems, Inc. All rights reserved.

**License:** Python-2.0 and MIT and GPL+

PYTHON SOFTWARE FOUNDATION LICENSE VERSION 2  
  
1. This LICENSE AGREEMENT is between the Python Software Foundation ("PSF"), and the Individual or Organization ("Licensee") accessing and otherwise using this software ("Python") in source or binary form and its associated documentation.  
2. Subject to the terms and conditions of this License Agreement, PSF hereby grants Licensee a nonexclusive, royalty-free, world-wide license to reproduce, analyze, test, perform and/or display publicly, prepare derivative works, distribute, and otherwise use Python alone or in any derivative version, provided, however, that PSF's License Agreement and PSF's notice of copyright, i.e., "Copyright (c) 2001, 2002, 2003, 2004, 2005, 2006 Python Software Foundation; All Rights Reserved" are retained in Python alone or in any derivative version prepared by Licensee.  
3. In the event Licensee prepares a derivative work that is based on or incorporates Python or any part thereof, and wants to make the derivative work available to others as provided herein, then Licensee hereby agrees to include in any such work a brief summary of the changes made to Python.  
4. PSF is making Python available to Licensee on an "AS IS" basis. PSF MAKES NO REPRESENTATIONS OR WARRANTIES, EXPRESS OR IMPLIED. BY WAY OF EXAMPLE, BUT NOT LIMITATION, PSF MAKES NO AND DISCLAIMS ANY REPRESENTATION OR WARRANTY OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE OR THAT THE USE OF PYTHON WILL NOT INFRINGE ANY THIRD PARTY RIGHTS.  
5. PSF SHALL NOT BE LIABLE TO LICENSEE OR ANY OTHER USERS OF PYTHON FOR ANY INCIDENTAL, SPECIAL, OR CONSEQUENTIAL DAMAGES OR LOSS AS A RESULT OF MODIFYING, DISTRIBUTING, OR OTHERWISE USING PYTHON, OR ANY DERIVATIVE THEREOF, EVEN IF ADVISED OF THE POSSIBILITY THEREOF.  
6. This License Agreement will automatically terminate upon a material breach of its terms and conditions.  
7. Nothing in this License Agreement shall be deemed to create any relationship of agency, partnership, or joint venture between PSF and Licensee. This License Agreement does not grant permission to use PSF trademarks or trade name in a trademark sense to endorse or promote products or services of Licensee, or any third party.  
8. By copying, installing or otherwise using Python, Licensee agrees to be bound by the terms and conditions of this License Agreement.  
BEOPEN.COM LICENSE AGREEMENT FOR PYTHON 2.0  
  
BEOPEN PYTHON OPEN SOURCE LICENSE AGREEMENT VERSION 1  
  
1. This LICENSE AGREEMENT is between BeOpen.com ("BeOpen"), having an office at 160 Saratoga Avenue, Santa Clara, CA 95051, and the Individual or Organization ("Licensee") accessing and otherwise using this software in source or binary form and its associated documentation ("the Software").  
2. Subject to the terms and conditions of this BeOpen Python License Agreement, BeOpen hereby grants Licensee a non-exclusive, royalty-free, world-wide license to reproduce, analyze, test, perform and/or display publicly, prepare derivative works, distribute, and otherwise use the Software alone or in any derivative version, provided, however, that the BeOpen Python License is retained in the Software, alone or in any derivative version prepared by Licensee.  
3. BeOpen is making the Software available to Licensee on an "AS IS" basis. BEOPEN MAKES NO REPRESENTATIONS OR WARRANTIES, EXPRESS OR IMPLIED. BY WAY OF EXAMPLE, BUT NOT LIMITATION, BEOPEN MAKES NO AND DISCLAIMS ANY REPRESENTATION OR WARRANTY OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE OR THAT THE USE OF THE SOFTWARE WILL NOT INFRINGE ANY THIRD PARTY RIGHTS.  
4. BEOPEN SHALL NOT BE LIABLE TO LICENSEE OR ANY OTHER USERS OF THE SOFTWARE FOR ANY INCIDENTAL, SPECIAL, OR CONSEQUENTIAL DAMAGES OR LOSS AS A RESULT OF USING, MODIFYING OR DISTRIBUTING THE SOFTWARE, OR ANY DERIVATIVE THEREOF, EVEN IF ADVISED OF THE POSSIBILITY THEREOF.  
5. This License Agreement will automatically terminate upon a material breach of its terms and conditions.  
6. This License Agreement shall be governed by and interpreted in all respects by the law of the State of California, excluding conflict of law provisions. Nothing in this License Agreement shall be deemed to create any relationship of agency, partnership, or joint venture between BeOpen and Licensee. This License Agreement does not grant permission to use BeOpen trademarks or trade names in a trademark sense to endorse or promote products or services of Licensee, or any third party. As an exception, the "BeOpen Python" logos available at http://www.pythonlabs.com/logos.html may be used according to the permissions granted on that web page.  
7. By copying, installing or otherwise using the software, Licensee agrees to be bound by the terms and conditions of this License Agreement.  
CNRI OPEN SOURCE LICENSE AGREEMENT (for Python 1.6b1)  
  
IMPORTANT: PLEASE READ THE FOLLOWING AGREEMENT CAREFULLY.  
  
BY CLICKING ON "ACCEPT" WHERE INDICATED BELOW, OR BY COPYING, INSTALLING OR OTHERWISE USING PYTHON 1.6, beta 1 SOFTWARE, YOU ARE DEEMED TO HAVE AGREED TO THE TERMS AND CONDITIONS OF THIS LICENSE AGREEMENT.  
  
1. This LICENSE AGREEMENT is between the Corporation for National Research Initiatives, having an office at 1895 Preston White Drive, Reston, VA 20191 ("CNRI"), and the Individual or Organization ("Licensee") accessing and otherwise using Python 1.6, beta 1 software in source or binary form and its associated documentation, as released at the www.python.org Internet site on August 4, 2000 ("Python 1.6b1").  
2. Subject to the terms and conditions of this License Agreement, CNRI hereby grants Licensee a non-exclusive, royalty-free, world-wide license to reproduce, analyze, test, perform and/or display publicly, prepare derivative works, distribute, and otherwise use Python 1.6b1 alone or in any derivative version, provided, however, that CNRIs License Agreement is retained in Python 1.6b1, alone or in any derivative version prepared by Licensee.  
Alternately, in lieu of CNRIs License Agreement, Licensee may substitute the following text (omitting the quotes): "Python 1.6, beta 1, is made available subject to the terms and conditions in CNRIs License Agreement. This Agreement may be located on the Internet using the following unique, persistent identifier (known as a handle): 1895.22/1011. This Agreement may also be obtained from a proxy server on the Internet using the URL:http://hdl.handle.net/1895.22/1011".  
  
3. In the event Licensee prepares a derivative work that is based on or incorporates Python 1.6b1 or any part thereof, and wants to make the derivative work available to the public as provided herein, then Licensee hereby agrees to indicate in any such work the nature of the modifications made to Python 1.6b1.  
4. CNRI is making Python 1.6b1 available to Licensee on an "AS IS" basis. CNRI MAKES NO REPRESENTATIONS OR WARRANTIES, EXPRESS OR IMPLIED. BY WAY OF EXAMPLE, BUT NOT LIMITATION, CNRI MAKES NO AND DISCLAIMS ANY REPRESENTATION OR WARRANTY OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE OR THAT THE USE OF PYTHON 1.6b1 WILL NOT INFRINGE ANY THIRD PARTY RIGHTS.  
5. CNRI SHALL NOT BE LIABLE TO LICENSEE OR ANY OTHER USERS OF THE SOFTWARE FOR ANY INCIDENTAL, SPECIAL, OR CONSEQUENTIAL DAMAGES OR LOSS AS A RESULT OF USING, MODIFYING OR DISTRIBUTING PYTHON 1.6b1, OR ANY DERIVATIVE THEREOF, EVEN IF ADVISED OF THE POSSIBILITY THEREOF.  
6. This License Agreement will automatically terminate upon a material breach of its terms and conditions.  
7. This License Agreement shall be governed by and interpreted in all respects by the law of the State of Virginia, excluding conflict of law provisions. Nothing in this License Agreement shall be deemed to create any relationship of agency, partnership, or joint venture between CNRI and Licensee. This License Agreement does not grant permission to use CNRI trademarks or trade name in a trademark sense to endorse or promote products or services of Licensee, or any third party.  
8. By clicking on the "ACCEPT" button where indicated, or by copying, installing or otherwise using Python 1.6b1, Licensee agrees to be bound by the terms and conditions of this License Agreement.  
ACCEPT  
  
CWI LICENSE AGREEMENT FOR PYTHON 0.9.0 THROUGH 1.2  
  
Copyright (c) 1991 - 1995, Stichting Mathematisch Centrum Amsterdam, The Netherlands. All rights reserved.  
  
Permission to use, copy, modify, and distribute this software and its documentation for any purpose and without fee is hereby granted, provided that the above copyright notice appear in all copies and that both that copyright notice and this permission notice appear in supporting documentation, and that the name of Stichting Mathematisch Centrum or CWI not be used in advertising or publicity pertaining to distribution of the software without specific, written prior permission.  
  
STICHTING MATHEMATISCH CENTRUM DISCLAIMS ALL WARRANTIES WITH REGARD TO THIS SOFTWARE, INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS, IN NO EVENT SHALL STICHTING MATHEMATISCH CENTRUM BE LIABLE FOR ANY SPECIAL, INDIRECT OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.  
  
MIT License  
  
Copyright (c) <year> <copyright holders>  
  
Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:  
  
The above copyright notice and this permission notice (including the next paragraph) shall be included in all copies or substantial portions of the Software.  
  
THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.  
  
GNU GENERAL PUBLIC LICENSE  
Version 1, February 1989  
  
Copyright (C) 1989 Free Software Foundation, Inc. 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA  
  
Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.  
  
Preamble  
  
The license agreements of most software companies try to keep users at the mercy of those companies. By contrast, our General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. The General Public License applies to the Free Software Foundation's software and to any other program whose authors commit to using it. You can use it for your programs, too.  
  
When we speak of free software, we are referring to freedom, not price. Specifically, the General Public License is designed to make sure that you have the freedom to give away or sell copies of free software, that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.  
  
To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.  
  
For example, if you distribute copies of a such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must tell them their rights.  
  
We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.  
  
Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.  
  
The precise terms and conditions for copying, distribution and modification follow.  
  
GNU GENERAL PUBLIC LICENSE TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION  
  
0. This License Agreement applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any work containing the Program or a portion of it, either verbatim or with modifications. Each licensee is addressed as "you".  
1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this General Public License and to the absence of any warranty; and give any other recipients of the Program a copy of this General Public License along with the Program. You may charge a fee for the physical act of transferring a copy.  
2. You may modify your copy or copies of the Program or any portion of it, and copy and distribute such modifications under the terms of Paragraph 1 above, provided that you also do the following:  
a) cause the modified files to carry prominent notices stating that you changed the files and the date of any change; and  
b) cause the whole of any work that you distribute or publish, that in whole or in part contains the Program or any part thereof, either with or without modifications, to be licensed at no charge to all third parties under the terms of this General Public License (except that you may choose to grant warranty protection to some or all third parties, at your option).  
c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the simplest and most usual way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this General Public License.  
d) You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.  
Mere aggregation of another independent work with the Program (or its derivative) on a volume of a storage or distribution medium does not bring the other work under the scope of these terms.  
  
3. You may copy and distribute the Program (or a portion or derivative of it, under Paragraph 2) in object code or executable form under the terms of Paragraphs 1 and 2 above provided that you also do one of the following:  
a) accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Paragraphs 1 and 2 above; or,  
b) accompany it with a written offer, valid for at least three years, to give any third party free (except for a nominal charge for the cost of distribution) a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Paragraphs 1 and 2 above; or,  
c) accompany it with the information you received as to where the corresponding source code may be obtained. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form alone.)  
Source code for a work means the preferred form of the work for making modifications to it. For an executable file, complete source code means all the source code for all modules it contains; but, as a special exception, it need not include source code for modules which are standard libraries that accompany the operating system on which the executable file runs, or for standard header files or definitions files that accompany that operating system.  
  
4. You may not copy, modify, sublicense, distribute or transfer the Program except as expressly provided under this General Public License. Any attempt otherwise to copy, modify, sublicense, distribute or transfer the Program is void, and will automatically terminate your rights to use the Program under this License. However, parties who have received copies, or rights to use copies, from you under this General Public License will not have their licenses terminated so long as such parties remain in full compliance.  
5. By copying, distributing or modifying the Program (or any work based on the Program) you indicate your acceptance of this license to do so, and all its terms and conditions.  
6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein.  
7. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.  
Each version is given a distinguishing version number. If the Program specifies a version number of the license which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of the license, you may choose any version ever published by the Free Software Foundation.  
  
8. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.  
NO WARRANTY  
  
9.  
BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.  
  
10. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.  
END OF TERMS AND CONDITIONS  
  
Appendix: How to Apply These Terms to Your New Programs  
  
If you develop a new program, and you want it to be of the greatest possible use to humanity, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.  
  
To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.  
  
<one line to give the program's name and a brief idea of what it does.>  
Copyright (C) 19yy <name of author>  
  
This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 1, or (at your option) any later version.  
  
This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.  
  
You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 675 Mass Ave, Cambridge, MA 02139, USA.  
  
Also add information on how to contact you by electronic and paper mail.  
  
If the program is interactive, make it output a short notice like this when it starts in an interactive mode:  
  
Gnomovision version 69, Copyright (C) 19xx name of author Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'. This is free software, and you are welcome to redistribute it under certain conditions; type `show c' for details.  
  
The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.  
  
You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here a sample; alter the names:  
  
Yoyodyne, Inc., hereby disclaims all copyright interest in the program `Gnomovision' (a program to direct compilers to make passes at assemblers) written by James Hacker.  
  
<signature of Ty Coon>, 1 April 1989 Ty Coon, President of Vice  
  
That's all there is to it!

**Written Offer**

This product contains software whose rights holders license it on the terms of the GNU General Public License, version 2 (GPLv2) and/or other open source software licenses. We will provide you and any third party with the source code of the software licensed under an open source software license if you send us a written request by mail or email to the following addresses:

foss@huawei.com

detailing the name of the product and the firmware version for which you need the source code and indicating how we can contact you.

Please note you need to make a payment before you obtain the complete Corresponding Source Code from us. For how much you will pay and how we will deliver the complete Corresponding Source Code to you, we will further discuss it by mail or email.

This offer is valid to anyone in receipt of this information.

**This offer is valid for three years from the moment we distributed the product or firmware .**