

DEPLOYING ZABBIX IN THE CLOUD



Sergey Sorokin

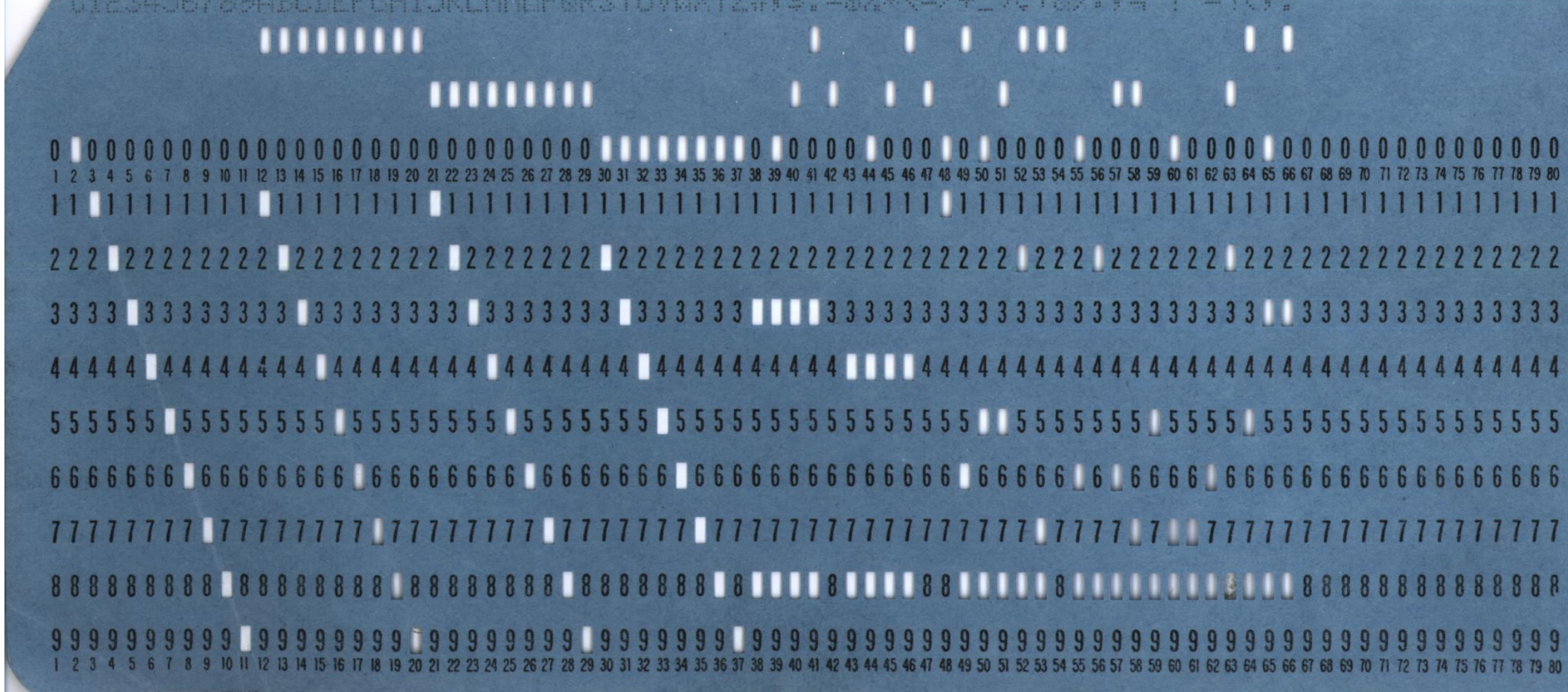
ZABBIX Business Development Director

ZABBIX '19
SUMMIT



IN THE BEGINNING WAS
THE WORD

* THE FIRST VERSE IN THE OPENING CHAPTER OF THE GOSPEL OF JOHN



MANY YEARS LATER
THE CODE APPEARED

Zabbix source appeared

The screenshot shows the Zabbix web interface. At the top, there is a navigation bar with the ZABBIX logo, 'Projects', and 'Repositories' links. A search bar is on the right with the text 'Search for code, commits or repositories...'. Below the navigation bar, the page title is 'Commits'. The main content area shows a commit by 'Alexei Vladishev' with the hash 'a1e67017141' and the date '28 Mar 2001'. The commit message is 'Initial revision'. A red box highlights the date '28 Mar 2001'. Below the commit information, there is a file explorer on the left showing a directory structure with files like 'alarms.html', 'alerts.html', 'chart.html', 'config.html', 'config.inc', 'history.html', 'hosts.html', 'index.html', and 'items.html'. The main content area shows a code editor with C code snippets, including include statements for 'common.h', 'db.h', 'debug.h', and 'functions.h', and a signal handler function.

ZABBIX Projects Repositories Search for code, commits or repositories... Log In

Commits

Alexei Vladishev committed a1e67017141 28 Mar 2001
Initial revision

cedf98f7d67
master

Commits

Alexei Vladishev committed a1e67017141 28 Mar 2001
Initial revision

alarms.html
alerts.html
chart.html
config.html
config.inc
history.html
hosts.html
index.html
items.html


```
13 + #include "common.h"
14 + #include "db.h"
15 + #include "debug.h"
16 + #include "functions.h"
17 +
18 + void signal_handler( int sig )
19 + {
20 +     if( SIGALRM == sig )
21 +     {
22 +         signal( SIGALRM, signal_handler );
23 +
24 +         dbg_write( dbg_syswarn, "Timeout while executing operation." );
25 +     }
```

Source provides flexibility and control

FOR PRODUCTION USE FOR CONTAINERS FOR QUICK DEPLOYMENT **FOR DEEP CUSTOMIZATION** FOR AGENT DEPLOYMENT



Install from Packages Zabbix Docker images Zabbix Appliance **Zabbix Sources** Zabbix Agents

Download sources from Git repository

 Zabbix Git repository

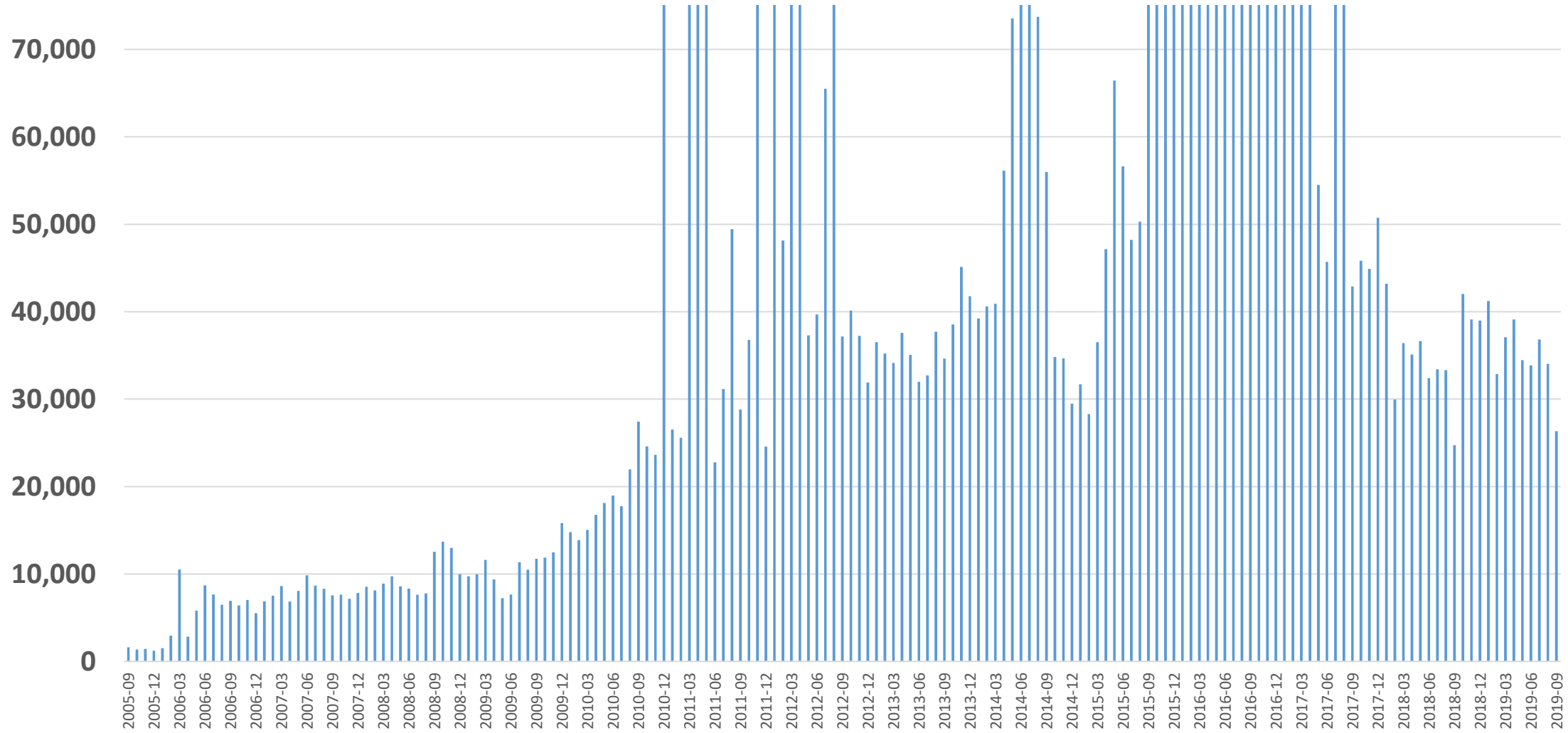
Download ready-to use Zabbix distributives

Zabbix 4.2 Zabbix 4.0 LTS Zabbix 3.0 LTS pre-release unsupported versions

Version	Release	Date	Release Notes	Zabbix Manual	Download
Zabbix 4.2 Server, Proxy, Agent, GUI	4.2.6	Aug 27, 2019			Download

Zabbix sources are very popular

Downloads of Zabbix source from SourceForge by months






Zabbix binaries

FOR PRODUCTION USE FOR CONTAINERS FOR QUICK DEPLOYMENT FOR DEEP CUSTOMIZATION FOR AGENT DEPLOYMENT

Install from Packages Zabbix Docker images Zabbix Appliance Zabbix Sources **Zabbix Agents**

Download and install pre-compiled Zabbix agents

4.2 4.0 LTS 3.4 3.2 3.0 LTS 2.2 LTS 2.0 1.8 1.6 1.4 1.1

Version	OS	Hardware	Encryption	MD5	Zabbix Manual	Download
4.2.7	macOS (pkg)	amd64	GnuTLS	cd2751052b46140400312d52e34ae9cf		Download
4.2.7	macOS (pkg)	amd64	OpenSSL	8e0c6ba599752ccc4fed0f5e52823eb3		Download
4.2.7	macOS (pkg)	amd64		06b72b9cee8189861f6e8e41da9662a8		Download



ALL YOU WANT IS **GIVE IT A TRY**

DEPLOYING ZABBIX
IN THE CLOUD

Zabbix appliances

FOR PRODUCTION USE FOR CONTAINERS **FOR QUICK DEPLOYMENT** FOR DEEP CUSTOMIZATION FOR AGENT DEPLOYMENT

Install from Packages Zabbix Docker images **Zabbix Appliance** Zabbix Sources Zabbix Agents

Install Zabbix Appliance

Zabbix 4.2

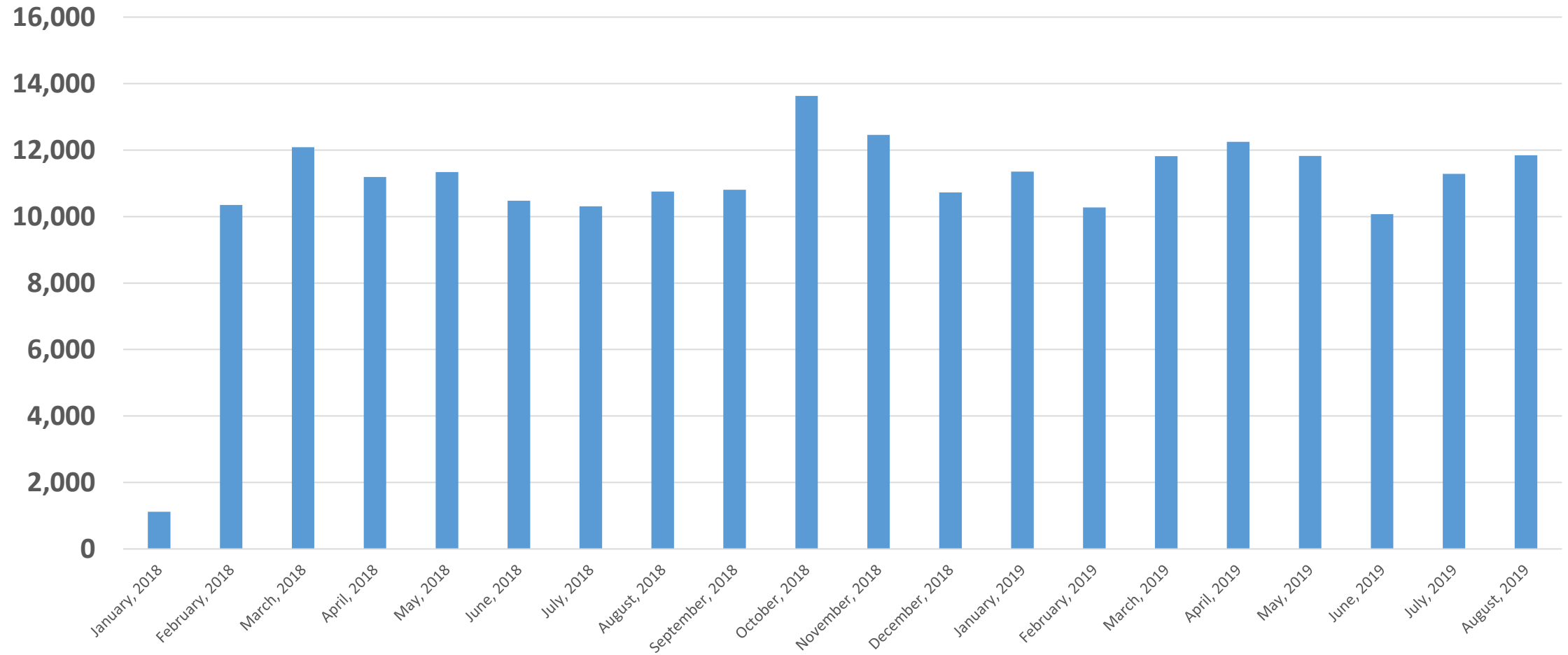
Zabbix 4.0 LTS

Zabbix 3.0 LTS

Version	Release	Date	Platform	Release Notes	Zabbix Manual	Download
Zabbix 4.2	4.2.5	Jul 29, 2019	Installation CD/DVD (.iso)	Release Notes	Zabbix Manual	Download
Zabbix 4.2	4.2.5	Jul 29, 2019	VirtualBox, VMWare (.vmdk)	Release Notes	Zabbix Manual	Download
Zabbix 4.2	4.2.5	Jul 29, 2019	Microsoft Hyper-V 2012	Release Notes	Zabbix Manual	Download
Zabbix 4.2	4.2.5	Jul 29, 2019	Microsoft Hyper-V 2008	Release Notes	Zabbix Manual	Download

with its own fan group

Downloads of Zabbix appliance by months





BUT SOURCE REQUIRES **KNOWLEDGE AND TIME**

DEPLOYING ZABBIX
IN THE CLOUD

Packages appeared for Zabbix server

FOR PRODUCTION USE FOR CONTAINERS FOR QUICK DEPLOYMENT FOR DEEP CUSTOMIZATION FOR AGENT DEPLOYMENT

Install from Packages

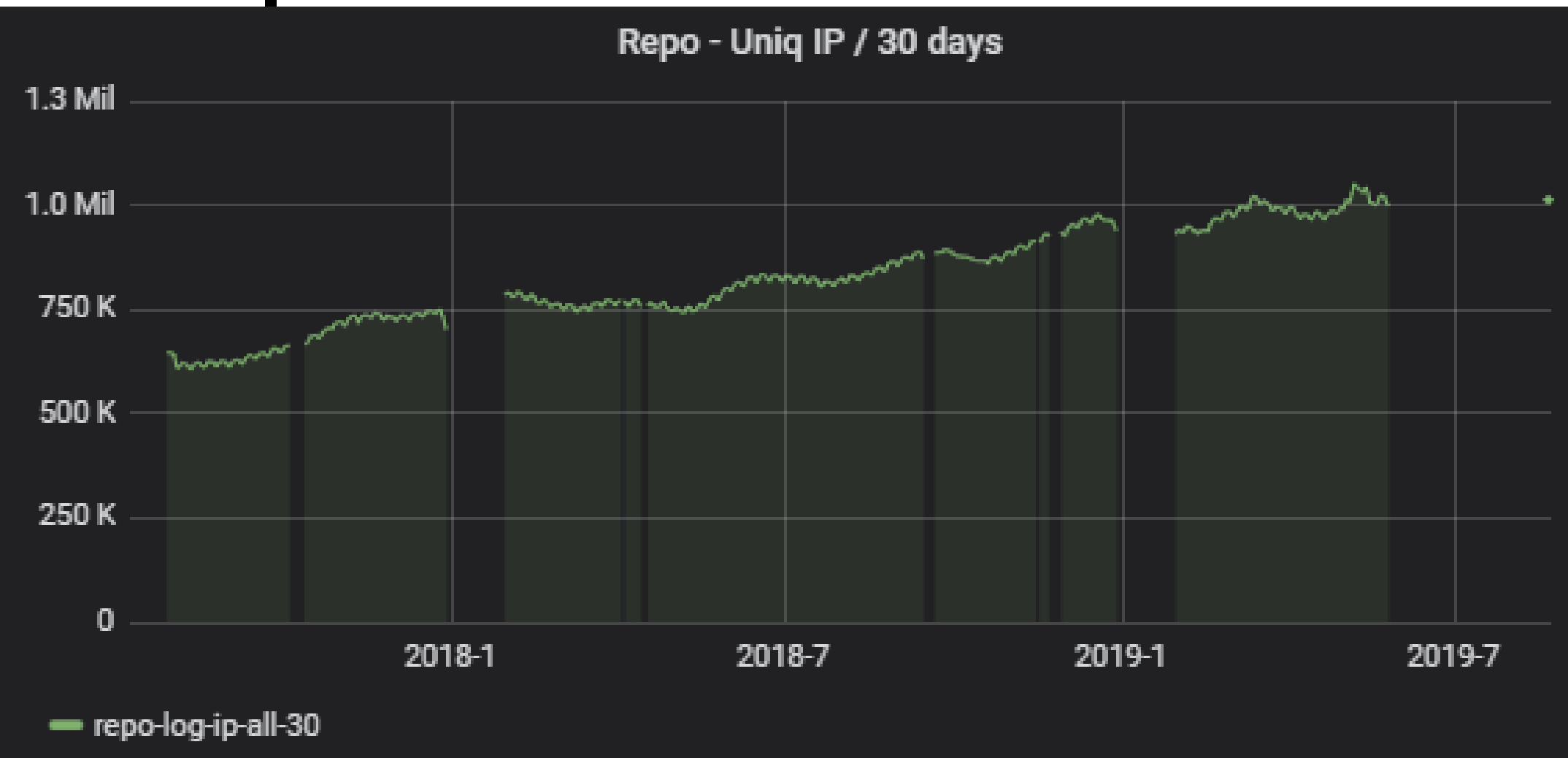
Zabbix Docker images Zabbix Appliance Zabbix Sources Zabbix Agents

1 Choose your platform

ZABBIX VERSION	OS DISTRIBUTION	OS VERSION	DATABASE [?]
4.2	Red Hat Enterprise Linux	8	MySQL
4.0 LTS	CentOS	7	PostgreSQL
3.0 LTS	Oracle Linux	6	
2.2 LTS	Ubuntu		
pre-4.4	Debian		
	SUSE Linux Enterprise Server		
	Raspbian		

[release notes 4.2](#)

which became even more





WITH THE WORLD GETTING BIGGER, PEOPLE WERE SEARCHING FOR **ISOLATION**

DEPLOYING ZABBIX
IN THE CLOUD

We packed Zabbix into containers

FOR PRODUCTION USE

Install from
Packages

FOR CONTAINERS

Zabbix
Container
Images

FOR QUICK DEPLOYMENT

Zabbix
Appliance

FOR DEEP CUSTOMIZATION

Zabbix Sources

FOR AGENT DEPLOYMENT

Zabbix Agents

Documentation

Zabbix Installation
from containers

Read manual

Zabbix Component Repositories

Zabbix hub



Zabbix Server
MySQL



Zabbix Server
PostgreSQL



Zabbix Proxy
SQLite3



Zabbix Proxy
MySQL



Zabbix Frontend
Apache, MySQL



Zabbix Frontend



Zabbix Frontend



Zabbix Frontend



Zabbix Agent



Zabbix Appliance

Red Hat Openshift

SUBSCRIPTIONS DOWNLOADS CONTAINERS SUPPORT CASES

🔍 Sergejs Sorokins 🌐



CUSTOMER
PORTAL

Products & Services

Tools

Security

Community

Red Hat Container Catalog

Zabbix



SEARCH



Explore Get Started FAQ

Service Accounts

ZABBIX

Zabbix
by Zabbix

Product Overview

Zabbix is the ultimate enterprise-level software designed for real-time monitoring of millions of metrics collected from tens of thousands of servers, virtual machines and network devices.

Zabbix is Open Source and comes at no cost.

Zabbix is an all-in-one monitoring solution that allows users to collect, store, manage and analyze information received from IT infrastructure, as well as display on-screen, and alert by e-mail, SMS or Jabber when thresholds are reached.

Zabbix allows administrators to recognize server and device problems within a short period of time and therefore reduces the system downtime and risk of system failure. The monitoring solution is being actively used by SMBs and large enterprises across all industries and almost in every country of the world.

Resources

APPLICATION CATEGORY

Monitoring

▶ [Product Website](#)

ZABBIX 19
SUMMIT

Red Hat Openshift

OPENSIFT CONTAINER PLATFORM Application Console

zabbix

Deploy Image

Image Results

1 2

Deploy an existing image from an image stream tag or image registry.

Image Stream Tag

Namespace / Image Stream : Tag

Image Name

zabbix/zabbix-appliance

To deploy an image from a private repository, you must [create an image pull secret](#) with your image registry credentials. [Learn More](#)

Image **zabbix/zabbix-appliance** runs as the **root** user which might not be permitted by your cluster administrator.

zabbix/zabbix-appliance 11 days ago, 137.3 MiB, 13 layers

- Image Stream **zabbix-appliance:latest** will track this image.
- This image will be deployed in Deployment Config **zabbix-appliance**.
- Ports 80/TCP, 443/TCP, and 10051/TCP will be load balanced by Service **zabbix-appliance**.

Cancel Deploy

Search Catalog Add to Project

Filter 239 Items

.NET

.NET Core

amp-pvc

Dancer + MySQL (Ephemeral)

3scale-gateway

amp-apicast-wildcard-router

PHP + MySQL (Ephemeral)

Dancer + MySQL

JBoss A-MQ 6.3 (no SSL)

JBoss A-MQ 6.3 (with SSL)

JBoss BPM Suite 6.4 intelligent process server (no https)

JBoss BPM Suite 6.4 intelligent process server + A-MQ + MySQL (with https)

JBoss BPM Suite 6.4 intelligent process server + A-MQ + PostgreSQL (with https)

JBoss BPM Suite 6.4 intelligent process server + MySQL (with https)

JBoss BPM Suite 6.4 intelligent process server + PostgreSQL (with https)

JBoss BRMS 6.4 decision server (with https)

JBoss BRMS 6.4 decision server + A-MQ (with https)

JBoss Data Grid 6.5 + MySQL (with https)

JBoss Data Grid 7.1 (Ephemeral, no https)

JBoss Data Grid 7.1 + MySQL (with https)

JBoss Data Grid 7.1 + PostgreSQL (with https)

JBoss Data Virtualization 6.3 (no SSL)

Docker Hub



zabbix

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[Get Started](#)



zabbix [Edit profile](#)

Community Organization Zabbix Riga, Latvia / Tokyo, Japan / New York, USA <https://www.zabbix.com/>
 Joined May 25, 2015

Repositories

Displaying 12 of 12 repositories



zabbix/zabbix-agent

By [zabbix](#) • Updated a day ago

Zabbix agent with TLS encryption support

[Container](#) [Linux](#) [x86-64](#)

10M+ **121**
Downloads Stars



zabbix/zabbix-web-apache-mysql

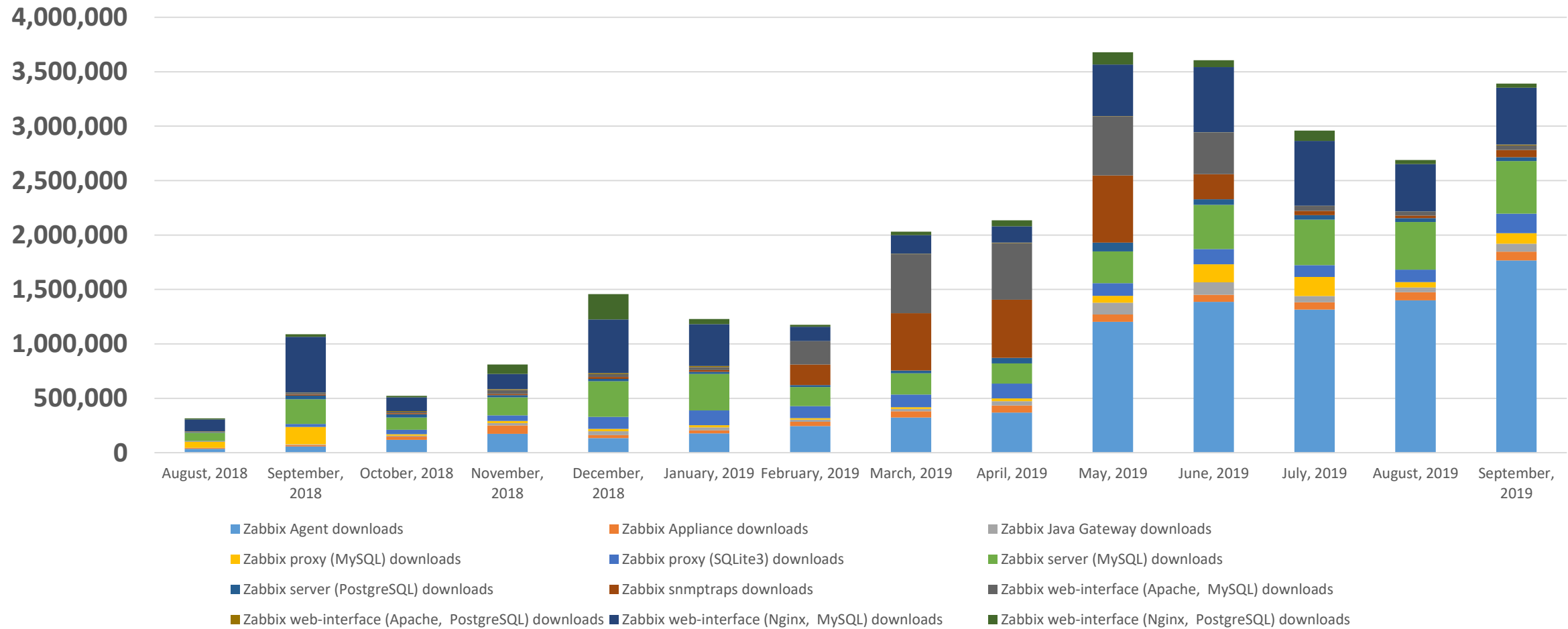
By [zabbix](#) • Updated 6 hours ago

Zabbix frontend based on Apache web-server with MySQL database support

1M+ **33**
Downloads Stars

Statistics just for Docker Hub

Downloads of Zabbix container images per month





LETS TALK ABOUT **CLOUDS**

DEPLOYING ZABBIX
IN THE CLOUD

Why clouds?

- Agile - quick availability of required resources
- Effective scaling up and down
- No capital expenses
- Better disaster recovery
- Instant provisioning
- Start with POC, continue to grow further

Which clouds?


Figure 1. Magic Quadrant for Cloud Infrastructure as a Service, Worldwide




Source: Gartner (July 2019)



AWS Marketplace

🔍Hello, Zabbix ▾

Categories ▾ Delivery Methods ▾ Solutions ▾ Migration Mapping Assistant Your Saved List Partners Sell in AWS Marketplace Amazon Web Services Home Help



Zabbix server virtual appliance 4.2 Medium Performance

By: [Zabbix SIA](#) Latest Version: 4.2.6

Zabbix is an enterprise-class open source distributed monitoring software designed to monitor and track performance and availability of network servers, devices, services and other IT

[Show more](#)

Linux/Unix

★★★★★ (0)

Continue to Subscribe

Save to List

Typical Total Price

\$0.296/hr

Total pricing per instance for services hosted on t2.medium in US East (N. Virginia). [View Details](#)

Overview Pricing Usage Support Reviews

Product Overview

Zabbix is an enterprise-class open source distributed monitoring solution designed to monitor and track performance and availability of network servers, devices, services and other IT resources.

Zabbix is an all-in-one monitoring solution that allows users to collect, store, manage and analyze information received from IT infrastructure, as well as display on-screen, and alert by e-mail, SMS or Jabber when thresholds are reached.

Zabbix allows administrators to recognize server and device problems within a short period of time and therefore reduces the system downtime and risk of system failure. The monitoring solution is being actively used by SMBs and large enterprises across all industries and almost in every country of the world.

Highlights

- All-in-one monitoring solution
- Appliance ready to use out of the box: includes MySQL, Nginx, and PHP
- Highly Performing and Flexible

Microsoft Azure Marketplace



Azure Marketplace Apps

Search Marketplace



More



Products > Zabbix Server 4.2



Zabbix Server 4.2 [save for later](#)

Zabbix

★★★★★ (0) [Write a review](#)

[Overview](#) [Plans + Pricing](#) [Reviews](#)

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Pricing information
Starting at \$0.094/hour
+ Azure infrastructure costs

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[Developer tools](#)
[Networking](#)

Support
[Support](#)

Legal
[Under Microsoft Standard Contract](#)
[Privacy Policy](#)

Zabbix is a software that monitors and tracks performance and availability of IT infrastructure

Zabbix is an enterprise-class open source distributed monitoring solution designed to monitor and track performance and availability of network servers, devices, services and other IT resources.

Zabbix is an all-in-one monitoring solution that allows users to collect, store, manage and analyze information received from IT infrastructure, as well as display on-screen, and alert by e-mail, SMS or Jabber when thresholds are reached.

Zabbix allows administrators to recognize server and device problems within a short period of time and therefore reduces the system downtime and risk of system failure. The monitoring solution is being actively used by SMBs and large enterprises across all industries and almost in every country of the world.

Learn more

[Learn from documentation](#)
[Purchase Technical Support contract](#)
[Zabbix official Forum](#)
[Webinars](#)
[Community template repository](#)



Digital Ocean



Marketplace

Categories ▾

For Vendors

Docs

Support

All Solutions > Monitoring

Search for other solutions



Zabbix

by Zabbix

VERSION 4.2 os CentOS 7

Create Zabbix Droplet



Description

Zabbix is an enterprise-class open source distributed monitoring solution designed to monitor and track performance and availability of network servers, devices, services and other IT resources. Zabbix is an all-in-one monitoring solution that allows users to collect, store, manage and analyze information received from IT infrastructure, as well as display on-screen, and alert by e-mail, SMS or Jabber when thresholds are reached. Zabbix allows administrators to recognize server and device problems within a short period of time and therefore reduces the system downtime and risk of system failure. The monitoring solution is being actively used by SMBs and large enterprises across all industries and almost in every country of the world.

Software Included

Support Details

Supported By: Zabbix

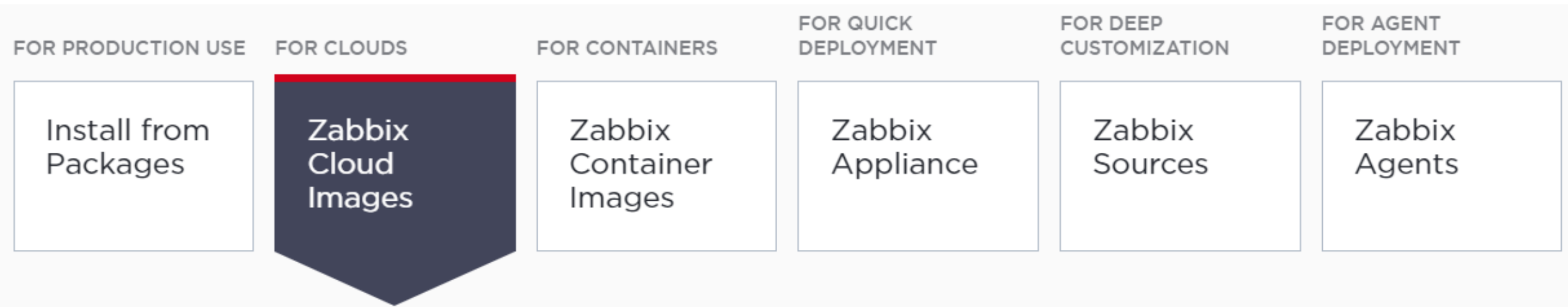
Support URL: <https://www.zabbix.com/support>

Learn More

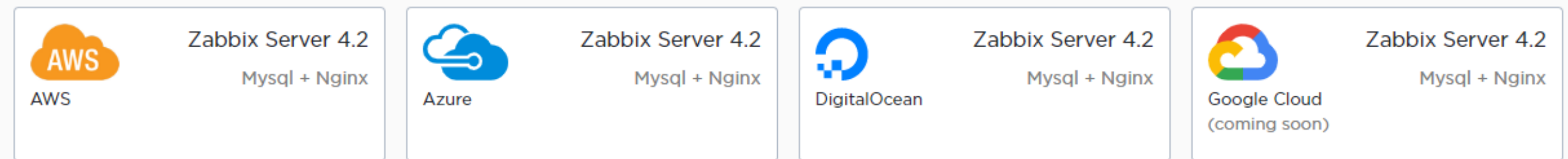
[Product Docs](#)

Technical overviews, how-tos, release notes, and support material

Easy to find



Zabbix Cloud Images



Pricing

\$0.125/h
per vCPU + Infrastructure
cost



Price/performance

The table shows current software and infrastructure pricing for services hosted in **US East (N. Virginia)**. Additional taxes or fees may apply.

Zabbix server virtual appliance 4.2 Medium Performance			
EC2 Instance type	Software/hr	EC2/hr	Total/hr
<input type="radio"/> t2.medium ★Vendor Recommended	\$0.25	\$0.046	\$0.296
<input checked="" type="radio"/> t2.large	\$0.25	\$0.093	\$0.343

Type of data	Size, GB
Zabbix configuration	0,01
History	593,84
Trends	22,03
Events	10,46
Minimum space required on disk	626,34

Customer Environment parameters	Value	Unit of measure
Number of hosts	1 000	
Average number of items from 1 host	30	
Number of items collected	30 000	items
Average frequency of reading items	30	seconds
Store history for	90	days
Housekeeper should keep trends for	365	days
Housekeeper should keep events for	365	days

Up to **1,000** NVPS
 ~**\$309,56** / month includes:

- Zabbix virtual appliance
- Infrastructure (t2.large)
- Storage (EBS general purpose SSD)
- Traffic not included



Technical Support

- Not included in the virtual appliance price
- Experimental for the clouds for now
- Will not cover 3rd party offerings

Discuss support availability with our Sales Team

THANK YOU!



Sergey Sorokin

ZABBIX Business Development Director

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