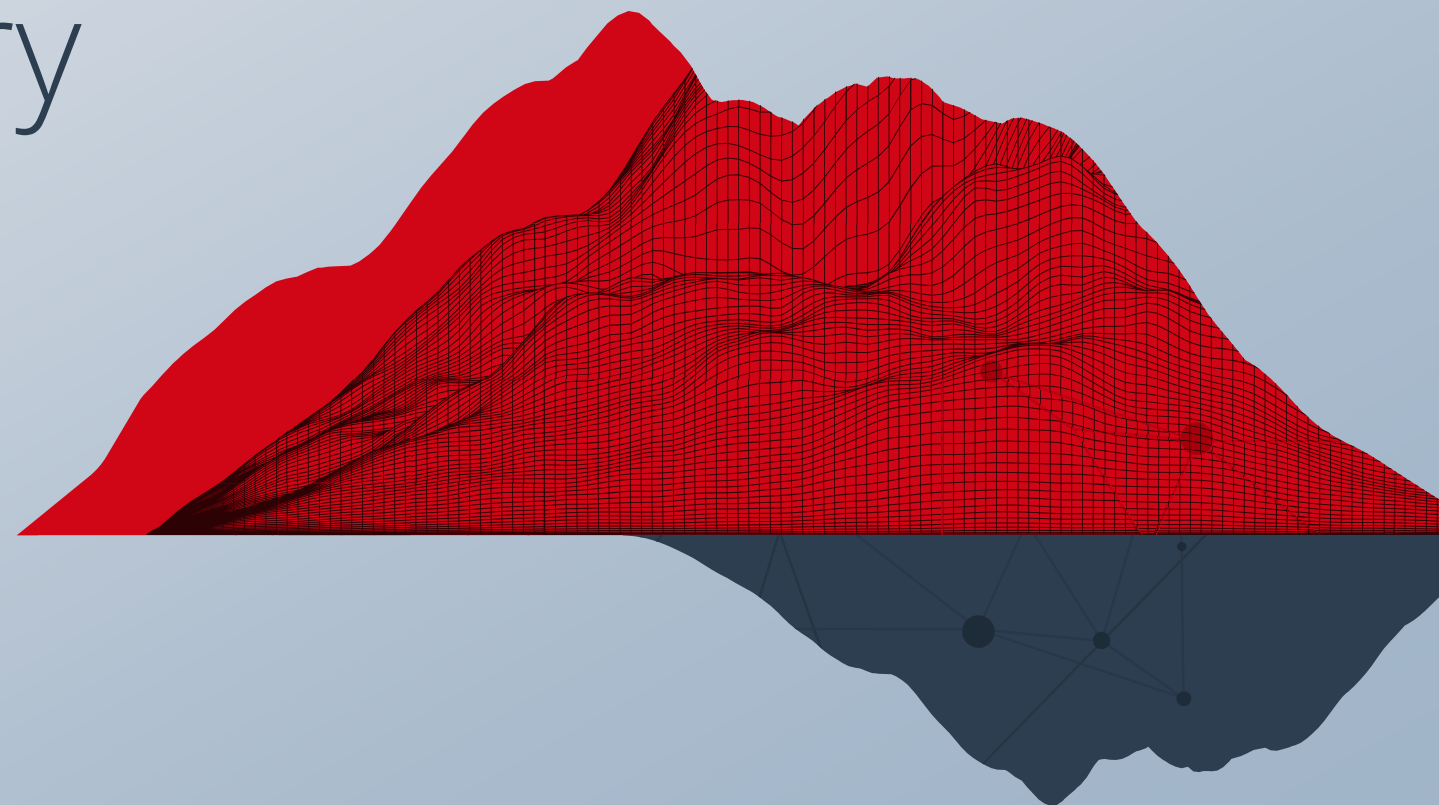


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Behind the Scenes: Product Delivery



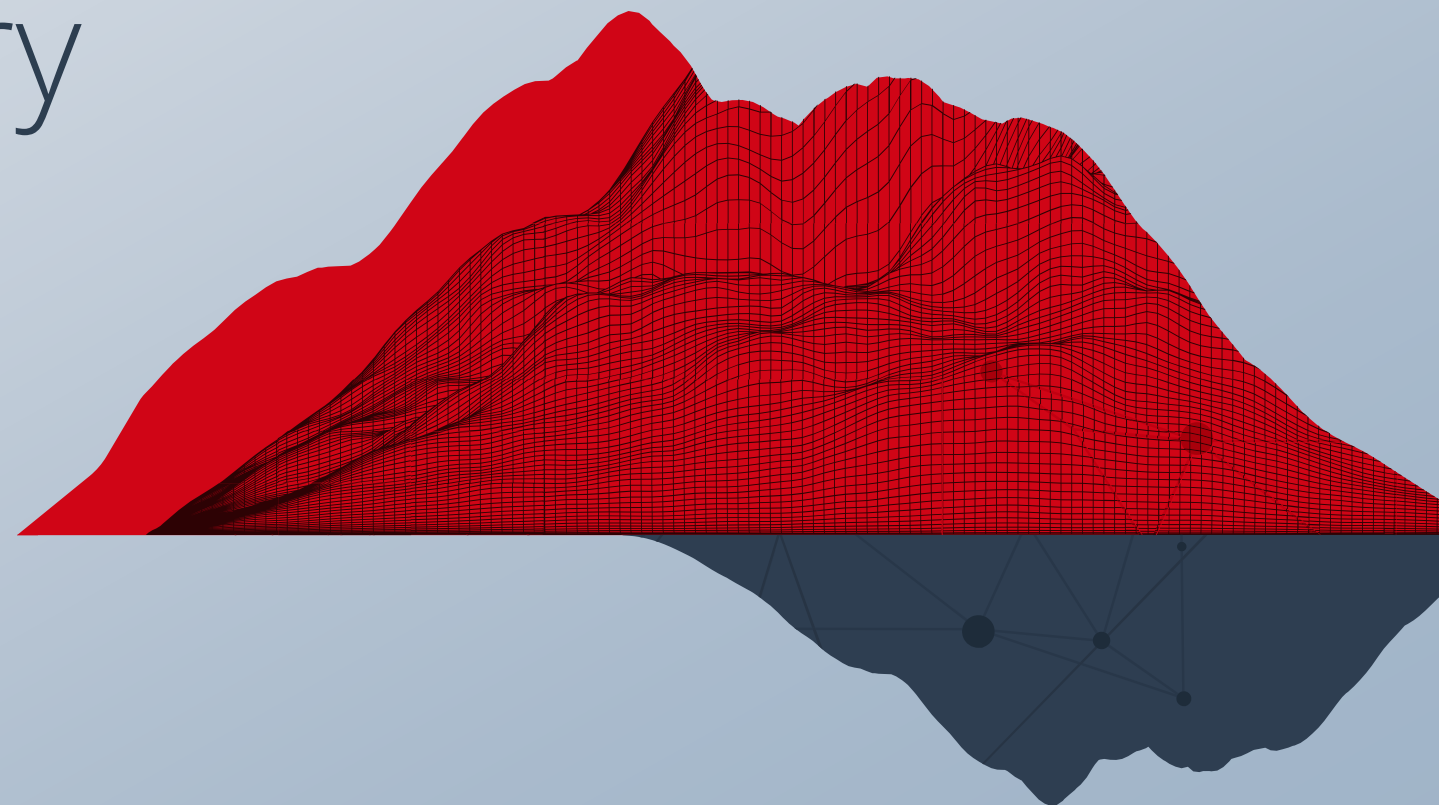
Juris Lambda

C Developer, Zabbix, Latvia

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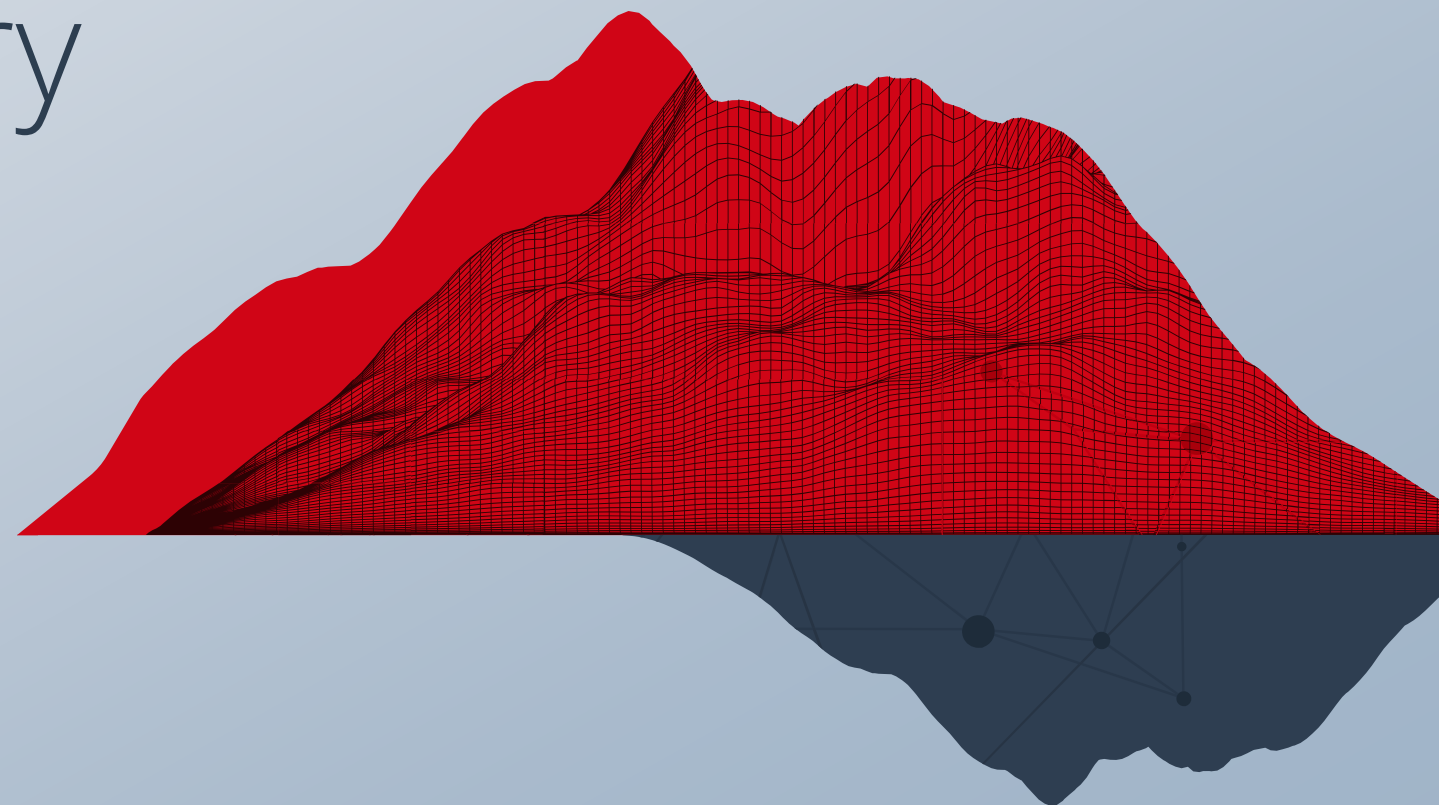
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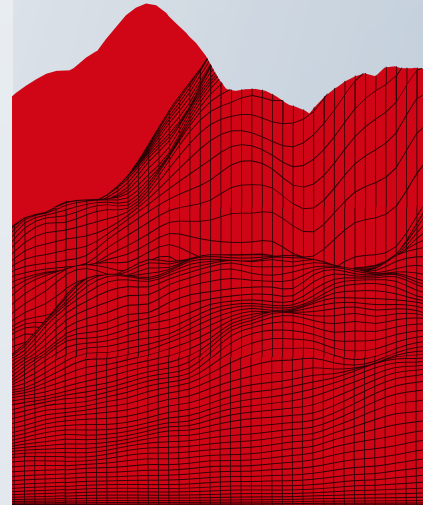
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Juris Lambda

C Developer, Zabbix, Latvia

What this Talk will Cover



What this Talk will Cover

- Product Delivery and its Objectives

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- Motivating Factors

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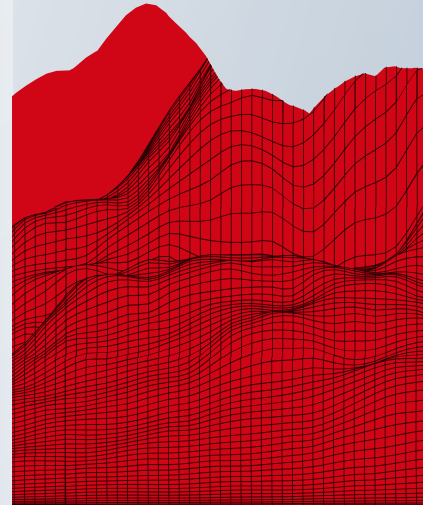
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1 Choose your platform

ZABBIX VERSION	OS DISTRIBUTION	OS VERSION	ZABBIX COMPONENT	DATABASE [?]	WEB SERVER
6.4	Alma Linux	9	Server, Frontend, Agent	MySQL	Apache
6.0 LTS	CentOS	8	Proxy	PostgreSQL	Nginx
5.0 LTS	Debian		Agent		



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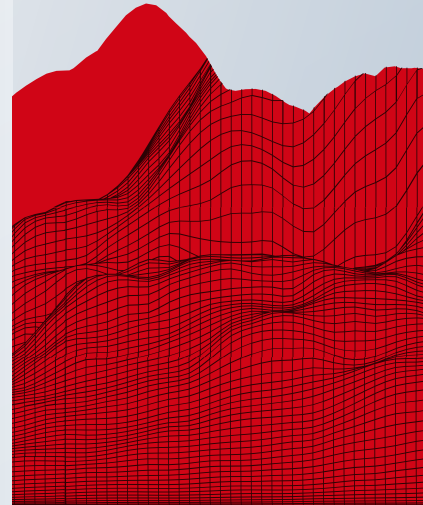
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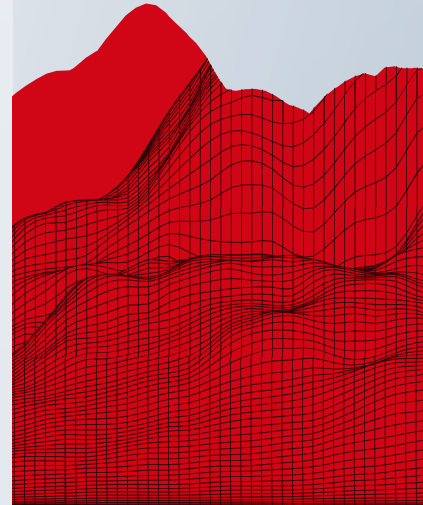
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Product Delivery

What is Product Delivery?

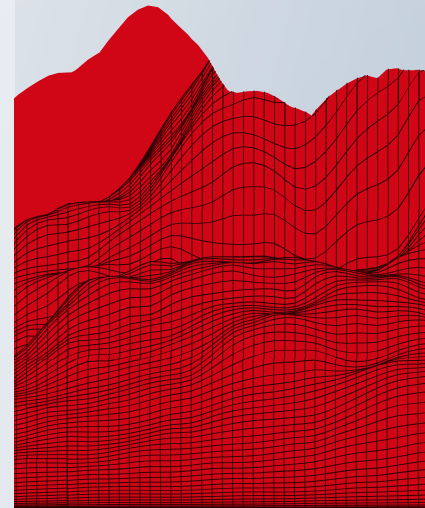


What is Product Delivery?

- The process of preparing and shipping a product to end-users

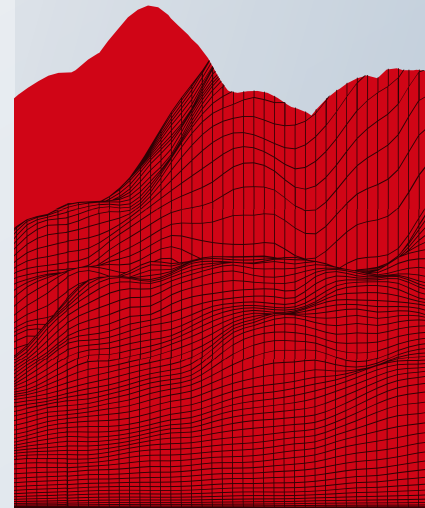
What is Product Delivery?

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 - ✓ It meets established criteria of quality

What is Product Delivery?

- The process of preparing and shipping a product to end-users, such that...
 - ✓ It is readily consumable
 - ✓ It lends itself to reuse
 - ✓ It meets established criteria of quality
 - ✓ It becomes available in a timely manner



The Motivating Factors

The **Motivating** Factors

- Make Zabbix more easily accessible to end-users

The **Motivating** Factors

- Make Zabbix more easily accessible to end-users
- ✓ Not all users are comfortable with building software themselves

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The **Motivating** Factors

- Make Zabbix more easily accessible to end-users
 - ✓ Not all users are comfortable with building software themselves
 - ✓ Not all users are comfortable with creating reusable deployment artifacts

The **Motivating** Factors

- Establishing a Trusted Source of Assets

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 - ✓ “Did xXk3v1nXx31337, who gave me this agent build, backdoor it?”

The **Motivating** Factors

- Establishing a Trusted Source of Assets
 - ✓ “Did xXk3v1nXx31337, who gave me this agent build, backdoor it?”
 - ✓ “Did Bob the Sysop enable all available features when building this server binary?”

The **Motivating** Factors

- Ease the Process of Troubleshooting and Identifying Issues

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 - ✓ It is that much harder and more time consuming to try and help a user experiencing a novel bug

The **Motivating** Factors

- Ease the Process of Troubleshooting and Identifying Issues
 - ✓ It is that much harder and more time consuming to try and help a user experiencing a novel bug
 - ✓ Reproducing custom builds is not always possible

The **Motivating** Factors

- Feature Parity on all Supported Platforms

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 - ✓ Provide all features to all users, regardless of their choice of operating system and/or hardware platform

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- Feature Parity on all Supported Platforms
 - ✓ Provide all features to all users, regardless of their choice of operating system and/or hardware platform
 - To the extent that it is feasible
 - The big exception being the Server on MS Windows systems



Brief History Overview

Brief History Overview

2007

The First
Package!

Brief History Overview

2007

The First
Package!

2009

Zabbix starts
hosting package
repositories

Brief History Overview

2007

The First
Package!

2009

Zabbix starts
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2016

Container images
appear

Brief History Overview

2017

Change of
packaging
maintainer

Brief History Overview

2017

Change of
packaging
maintainer

2019

dimir gets
a helping hand

Brief History Overview

2017

Change of
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2019

dimir gets
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2022

I return in 2022
and attempt to
mitigate the bus
factor



Current State of Affairs

Current *State* of Affairs

- Number of releases steadily increases YOY

Current *State* of Affairs

- Number of releases steadily increases YOY
- Build times have been shortened significantly

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- Number of releases steadily increases YOY
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- New hardware platform support

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- Number of releases steadily increases YOY
- Build times have been shortened significantly
- New hardware platform support
- Commitment to target environment native builds



The Future

The Future

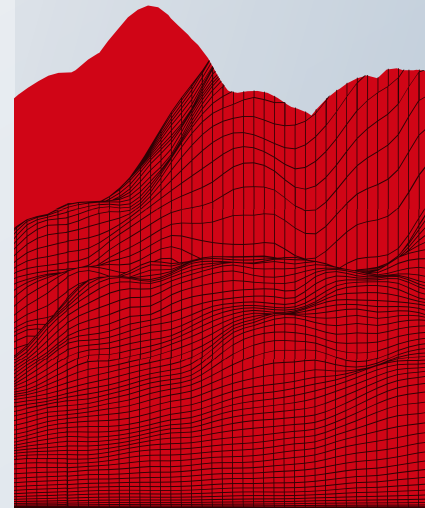
- More Finely Grained Package Verification

The Future

- More Finely Grained Package Verification
- Downgrade support for Debian packages

The Future

- More Finely Grained Package Verification
- Downgrade support for Debian packages
- Tracking External Dependencies





Conclusions

Conclusion

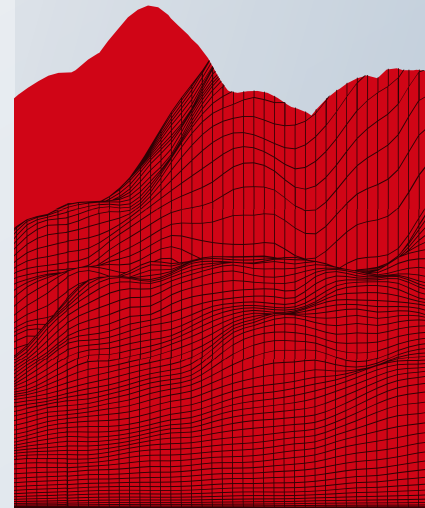
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Conclusion

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- Product Delivery creates a feedback loop for Development

Conclusion

- End-user convenience is the strongest driver
- Product Delivery creates a feedback loop for Development
- Builds end-user confidence in the product



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Thank You!

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