With Docker and k8s, this is not your grandparents' infra anymore!

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Meet the team

Mikaël Barbero, Build Team
- is at EclipseCon -

Eric Poirier, Web Dev
- is at EclipseCon -

Christophe Guindon, Web Dev
- is not at EclipseCon -

Frederic Gurr, Build Team
- is at EclipseCon -

Me
- I am here -

Matt Ward
- is not at EclipseCon -
## IT Services Provided - 2018

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**Webmaster support!**
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**Webmaster support!**
Code

Your grandparents did this

CVS

Gerrit Code Review to improve collaboration
Builds

Your grandparents did this

Today we have this

MD5 checksums of binaries

SHA-512 checksums
Code Signing via CBI (Common Build Infra)
Builds - circa 2005

Your grandparents did this

Today we have this

Ant scripts on laptops, no public Visibility, difficult to reproduce

Maven/Tycho with Jenkins on Red Hat OpenShift visible to all (https://jenkins.eclipse.org)
Builds - circa 2012

Your grandparents had this

Standalone Jenkins Instance Per Project

Today we have this

Jenkins Instance Per Project, running on scalable OpenShift
CBI 3.0: Cloudbees Jenkins Enterprise

200+ Jenkins instances - ~40 instances on new CJE

35 new in the last month!

Standalone JIPP migrations start shortly

Powered by Docker/Kubernetes via Red Hat OpenShift
CBI 3.0: What’s included?

Each Eclipse Project has access to one Jenkins instance (JIPP), including the following:

- (1) Jenkins instance, with (1) Resources Pack
  - Membership-sponsored projects may allocate more resources (see below)
- Digital signing Service: Java JAR, Java Cryptography Extensions, Windows Portable Executable with Microsoft Authenticode, macOS application bundles.
- Packaging service: Apple Disk Image (.dmg), Linux Flatpak
- Disk space: Ephemeral for builds, permanent for release builds.
- (1) 3.75G/30G Linux Virtual Server (if needed) (courtesy of Microsoft Azure)
- Access to worldwide download mirrors

CBI is an optional offering. Projects are not required to use this!
Jenkins Pipeline Builds

Next generation CI/CD - building Eclipse projects on the new CBI build farm

Frederic Gurr - Tomorrow 2pm Theater Stage
Bug Tracker

Your grandparents had this

Today we have this

Bugzilla
Bug Tracker

Your grandparents had this

Today we have this

Bugzilla

Bugzilla
Bug Tracker

Your grandparents had this

Today we have this
Interfacing

Your grandparents did this

Today we have this

Third-party apps and sites that needed Eclipse web data had to use complex and error-prone screen scraping

https://api.eclipse.org for RESTful access to Eclipse data

OAuth2 for authentication
Data Privacy

Your grandparents were OK with this

“Privacy is important and we will do the right thing”

Today we have this

GDPR

Cookie Policy

Eclipse Hosted Services Privacy and Acceptable Usage Policy
GDPR: Policies At A Glance

- Privacy and Transparency a must
- If your service stores Personally Identifiable Information (PII) data you must subscribe to eclipse.org-gdpr@eclipse.org
- If you need PII, collect only as much information as required and to securely dispose of it when it isn’t
- To take reasonable security precautions to prevent unauthorized access
- To obtain explicit consent by the user before you start using cookies. This requirement also includes cookies used by 3rd party services such as, but not limited to: Google Tag Manager, and social media widgets.
- Google Analytics is the only approved tool for collecting user data.
  a. All committers on a project must have access to the data collected for that project upon request
  b. Eclipse Webmaster (webmaster@eclipse-foundation.org) must be an administrator on all Google Analytics properties
  c. Google Analytics IP Anonymization feature must be turned on
  d. Projects must ensure that they are not transmitting PII to Google Analytics
  e. Projects must accept and follow Google Analytics Terms of Service
- ensure all web pages related to operation of the server use either the standard Eclipse.org footer template, or a footer that prominently contains notices.

THIS IS NOT THE COMPLETE POLICY!
Project Websites

Your grandparents did this

Today we have this

QuickSilver Theme: https://github.com/eclipsefdn/hugo-solstice-theme

Text-based websites with frames

Dynamic, visually appealing and responsive sites using modern frameworks
Nginx: efficient load balancing

BEFORE: Cisco CSS load balancer passes through all requests to webservers

NOW: NGINX reverse proxy+cache only passes through requests that aren’t cached

Less load on web servers and databases. Idle hardware allocated to CJE cluster.

50-90% Cache hit
Looking forward

- Build Cluster
- Web Cluster (website, Bugzilla, Wiki)
- More Clusters!

Moving away from purpose-specific VMs
Your grandparents would be proud
Questions?

Please login and rate this talk

https://eclipsecon.org/