RECENT PROGRESS ON WEB SERVICES FOR SFT

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TASKS

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- ROOT Primer to Notebooks

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- PIWIK for CERNVM

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- PIWIK for CERNVM
- Websites:
  - EP-SFT
  - EP-DT
  - EP-DEP
  - ROOT
  - EP-NEWS
  - IML
  - CODER
  - launching page for ROOT in the browser

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- New websites launching:
  - LPCC
- News from Drupal at CERN

ROOT PRIMER IN NOTEBOOKS

A BIT ABOUT THE PROJECT

So far a very complete and helpful documentation about ROOT can be found in the ROOT Primer, both in PDF and HTML versions. Although experience suggests that learning by doing is a great way to grasp new subjects and increase own skills.

The Primer is a very useful tool since it is suggested to absolute beginners and used in the ROOT Summer Students Tutorial.

Goal of this project is to create an interactive space collecting text, code, and images together, and allowing the user to modify and see the altered results immediately.

This opportunity is given to us via the use of Jupyter Notebooks.

GOALS OF THE PROJECT

- We aimed to have the current ROOT Primer just better

- We want the **PDF** and **HTML** versions of the Primer just as we do now

- Make use of the **jsroot** library for **interactive** graphs

GOALS OF THE PROJECT

- Additionally we want one **centralised** spot to **edit** the Primer

- All the team should be able to edit the Primer

- The other versions should be **automatically re-created** from the notebooks every day

- We also aim to add the Primer to the already existing **ROOT learning material**

WHAT HAS BEEN DONE

- The ROOT Primer was **moved to 9 individual jupyter notebooks**

- ~All **code snippets are working interactively** both on Jupyter and HTML versions

- A **github repository** has been put in place for easy editing and syncing of the notebooks content as well as easy passing the rights to admins

- The notebooks are also available in **SWAN**

WHAT HAS BEEN DONE

- A **script** aggregates the content and creates html and pdf versions of the Primer

- A **Jenkins job** is taking care of re-creating the PDF and HTML versions daily and updating them online

- The process has been **merged with the ROOT documentation creation** (rootspi) and has been running successfully for the past days*

PIWIK FOR CERNVM

A BIT ABOUT THE PROJECT

CERNVM is a wildly used project, offering pre-configured environment for scientific computing in a Virtual Machine.

Having users all around the world makes the task of understanding how the product is used very challenging: How much CPU is given to each VM? Is the interactive mode favoured over the batch mode? So the idea of creating an automated tool reporting usage statistics was born.

The problem of tracking usage statistics is long solved for websites by using tracking servers. Piwik is a wildly used (also the CERN choice for o cial websites) open source solution that we decided to customise for our needs.

ABOUT PIWIK

- PIWIK is a usage statistics tool widely used for website tracking

- Offers a range of plugins

- Offers an HTTP API

- Can be triggered from a simple curl command

- Offers a variety of views for the statistics based on date range and variables

THE PLAN

- Use PIWIK to track usage of CERNVM VMs
- Collect data:
  - CPU
  - RAM
  - Disk space
  - Type of VM (interactive or batch mode)
  - VM life time
  - Experiment using the VM
  - Geographical location of the VM

WHAT IS DONE

- The **server** is up in http://cvm-piwik02.cern.ch/piwik/index.php

- A **database** is set-up on database on demand service of CERN

- Customisation is in place in order to enable **custom value tracking** for all requested variables

- There is a script in place to **ship data to the server over API**

HOW IT LOOKS

RAM

RAM	ACTIONS	UNIQUE ACTIONS
16	66	66
08	65	65
01	64	64
04	55	55
02	40	40

1-5 of 5

CPU

CPU	ACTIONS	UNIQUE ACTIONS
type5	66	66
type4	65	65
type1	64	64
type3	55	55
type2	40	40

1-5 of 5

DISK

DISK	ACTIONS	UNIQUE ACTIONS
0128	63	63
1024	62	62
0256	61	61
0512	55	55
2048	49	49

1-5 of 5

INVOTYPE

INVOTYPE	ACTIONS	UNIQU ACTION
on_	116	11
off	115	11
cdt	45	4
Value not defined	14	1

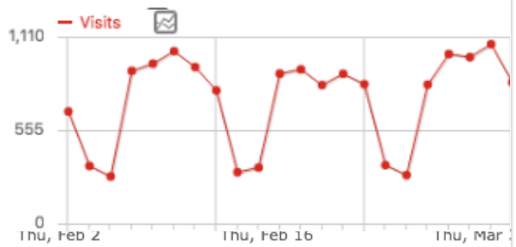
1-4 of 4

VMTYPE

VMTYPE	ACTIONS	UNIQUE ACTIONS
0ac48	1	1
00b7d	1	1
0b9ed	1	1
0b527	1	1
0da8f	1	1
0f9a6	1	1
1a4b8	1	1
1a7e6	1	1
1aa48	1	1
1ac7d	1	1

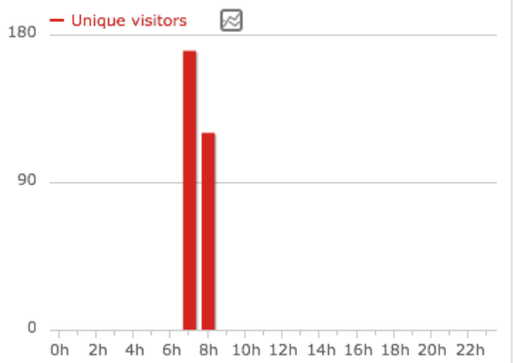
1-10 of 290 NEXT ›

Visits Over Time

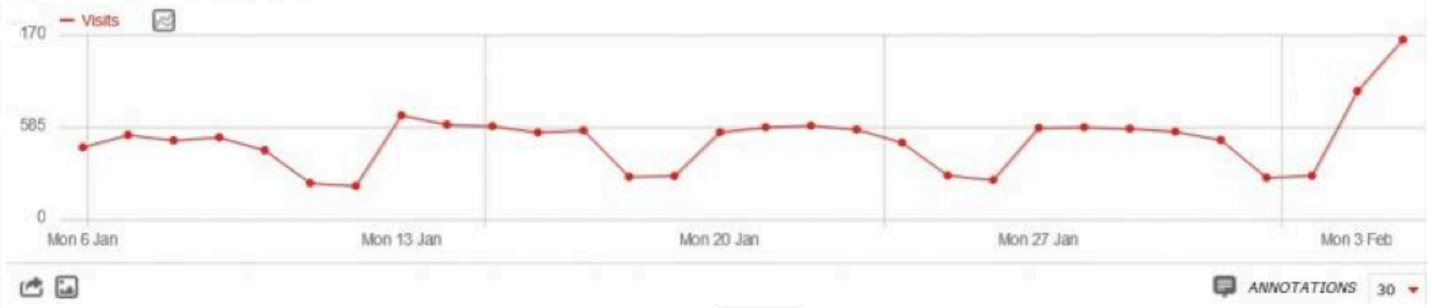


Visitor Map

Visits by Local Time



Evolution over the period



Report

290 visits, **290** unique visitors

290 users

0s average visit duration

100% visits have bounced (left the website after one page)

1 actions (page views, downloads, outlinks and internal site searches) per visit

0s average generation time

290 pageviews, **290** unique pageviews

0 total searches on your website, **0** unique keywords

0 downloads, **0** unique downloads

0 outlinks, **0** unique outlinks

1 max actions in one visit

Visitor Map

Visitor Log

Friday, March 3, 2017 - 09:13:14
IP: 128.141.0.0

c8359b01424538f1

Direct Entry

1 Action
View visitor profile: c8359b01424538f1
1. _cputype1_ram01_disk0256_vmtype7b3ea_invotypeon_
http://10.0.2.255

Friday, March 3, 2017 - 09:13:13
IP: 128.141.0.0

84b1a1bbb2ed7468

Direct Entry

1 Action
1. _cputype4_ram08_disk0256_vmtype67c47_invotypeoff
http://10.0.2.255

NEXT STEPS

- **Incorporate the script** in CERNVM

- Set-up an **opt-out mechanism** for the users

- Test **performance**

- Push for **hosting** the server in IT

WEBSITES

BASELINE WORK

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- Maintenance/Updates

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- Assistance with **publishing newsletters**

- **Advising** there projects on web related issues

LPCC WEBSITE

- Finalised the website's **structure and design**

- Migrated **content**

- Set up **mechanism for mass-importation** of paper's information from other CERN infrastructure

- **To be launched** in the next couple of weeks

LPCC –SNEAK PEAK–

LHC Physics Center at CERN

Welcome | About | LHC working groups | LHC publications | Events

Welcome to the LPCC website

News

LHCC open session and Students Poster Session
02/02/2017 The Open Session of the 129th LHCC meeting will take place on Wednesday Febr 22, 9am, in the Main Auditorium of CERN:

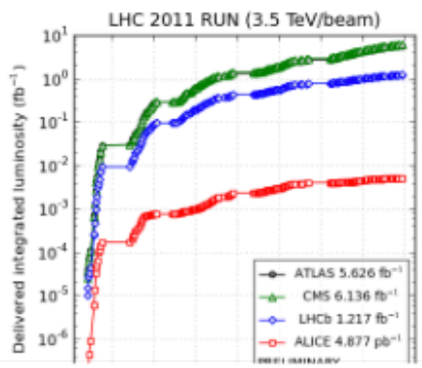
https://indico.cern.ch/event/609813/

The traditional LHC Students' Poster session will then take place in the afternoon, 5-7pm, in the Salle des Pas Perdu (the area between the Main Auditorium and the Council Chamber). Refreshments will be served. The list of posters will soon appear on

http://indico.cern.ch/event/608530/

STATUS OF LHC OPS

LHC status, "page 1"
Current fill luminosity
"Page-1", tutorial
Exp's status, "page 3"
LHC weekly plan
LHC programme coordination
LHC integrated luminosity charts



CERN SFT

DRUPAL NEWS

CERN IS MOVING TO DRUPAL 8

MOVING TO 8: WHY?

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- **After security updates stop the IT will pull the plug of all Drupal 7 websites immediately**

TIMELINE

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- We will have themes for Drupal 8 websites at **September-October** so production can begin

- The home.cern website will launch in **June** when other CERN websites in Drupal 8 **can launch** as well

A GREAT THANKS

- Danilo, Olivier, Bertrand, Enric
- Jakob, Gerrardo
- Sergei
- Angela Ricci and the secretaries of EP
- Mar Capeans Garrido and Valerie Seguin
- Roger Forty, Panagiotis Charitos
- Sotirios Voutas and Eduardo Alvarez Fernandez
- Michelangelo Mangano

THANK YOU