Thirteenth Birthday Presentation
(Bad luck it was late.)

Comparisons

- Snap, Flatpack and Appimage

- Brian's Home Assistant vs David's

- Apache vs nginx

- awk and Perl

- Backup tools

Snap, Flatpack and AppImage

- All containers serving the inside world:

- Flatpack: desktop only; uses LXC

- Snap: desktop and server; uses AppArmor

- Appimage:

- Docker = container serving the outside world

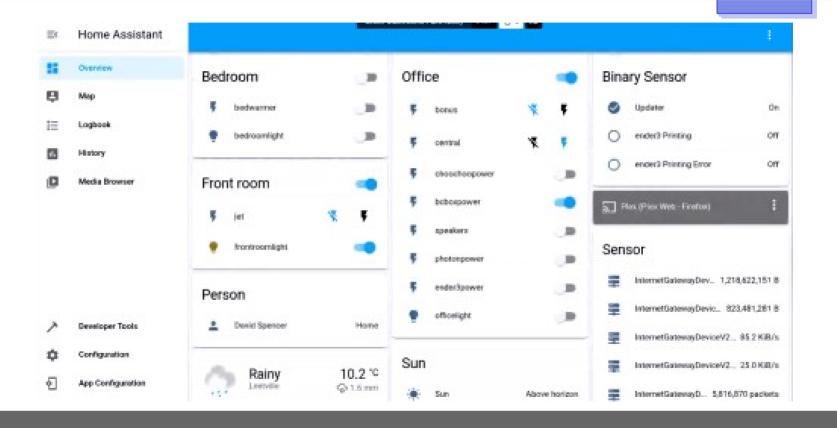- Cf. also Steam for games and Singularity for HPC

Home Assistant

- Was a theme to which we returned frequently

- It can be run

  - As an image on a Raspberry Pi

  - In a Docker container

  - With the Supervisor on Debian Buster

  - Using Python venv

Brian's Home Assistant

David's Home Assistant

Awk and Perl

- awk aims to be small, elegant and do one thing at a time

- Perl aims to be as complete and as useful as possible

- Comparing Perl and Python, Perl allows different ways of doing the same thing whereas Python aims to have only one way (though that does not always happen)

Backup tools

- Duplicity (which uses rsync)

- rsync

- Rsnapshot makes periodic snapshots

- Rclone for cloud backups

Hedgehog surveillance

- Infrared camera and LEDs

- Hedgehog pantry with turns to prevent other animals getting in

- Hedgehogs and a fox

- Hedgehogs fighting and rolling in a ball

- Hedgehogs rolling in a ball (for fun?)

Darren shared

- D programming

- Agile software development

- Using openstack with the Horizon Dashboard

- UMLet

- Apache Cordova

David shared

- Using 3D printers

- The differences between a resin and a filament printer

- Problems when the vat of resin runs out during printing

- Differences between versions of VNC

- Apparent DDOS attack from Apache Bench

Bernard shared

- reStructuredText and Sphinx to convert to HTML

- Using INDI with FITS and Python async

- Using LXD containers

- Installing Let's Encrypt using certbot

- Using the Python API from the Met Office and Met Office Datapoint

Bernard shared

- Using the IERS data on the earth's rotational speed

- Using the Raspberry Pi Pico's state machines for programming

- SSH tunnelling

- Python indentation

- W3.CSS layout examples

- Aladin client and the HEALPix diamond numbers

John shared

- Using KDEnlive

- mariadb authentication changes

- HTML and approaches to page layout

Topics mentioned in passing

- Apache Guacamole vs mosh

- openSUSE now more closely aligned with SUSE Enterprise

- Creating a systemd service

- LoRa networks

- Python sched

Topics mentioned in passing

- Bill Tutte who worked on the Lorenz cipher and for which Tommy Flowers built Colossus

- KDE Wallpapers with Bing Picture of the Day

- IPFS (Inter Planetary File System)

- Sonoff ZBBridge

- Dummy telephone numbers like Whitehall 1212

Topics mentioned in passing

- Excel spreadsheet disaster (plane overload)

- Bluetooth range – demonstrated by Brian

- Jitsi backgrounds

- NHS data transfer

- eMMC cards

Thank you