

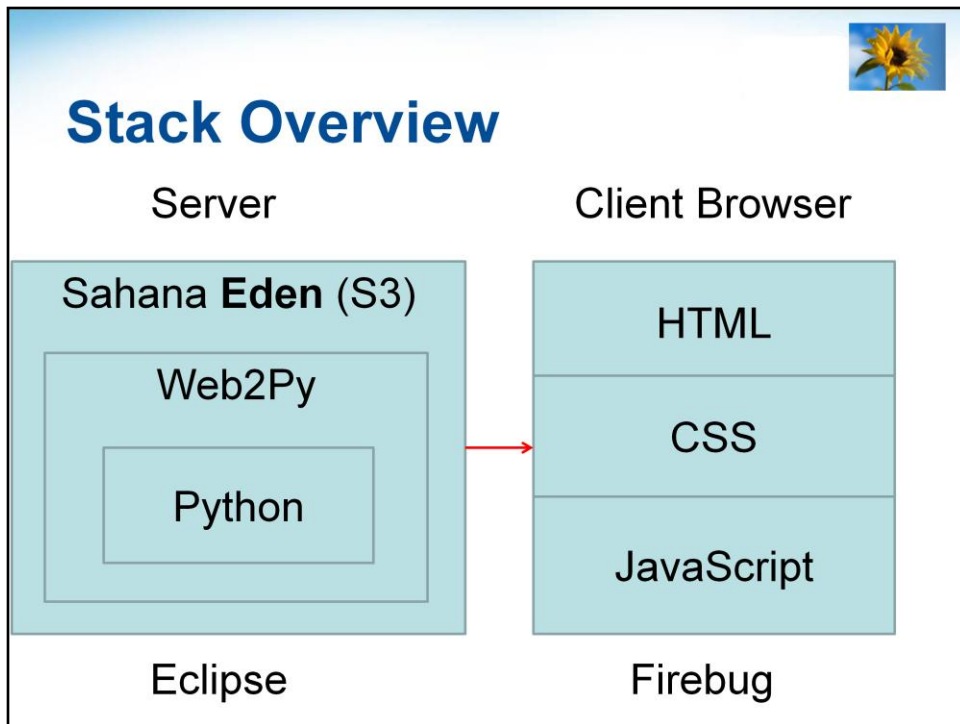


Sahana Eden: Developer Environment (Virtual Machine)

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Fran Boon

fran@sahanafoundation.org



S3 is a codename for Sahana Eden

Server & Client can be on the same machine

Each part needs to be debugged separately: Eclipse works well for the Server-side Python, whilst Firebug is excellent for the generated HTML/CSS/JavaScript

JavaScript libraries we use include jQuery & ExtJS



Install Developer Environment

Simplest way is to use the Virtual Machine:

- Python + Libraries
- Web2Py
- Sahana Eden
- Eclipse
- Firefox (Firebug)

Virtual Machine Instructions:

<http://eden.sahanafoundation.org/wiki/InstallationGuidelinesVirtualMachine>

If you wish to run direct on your native host later, there are notes on the Wiki for installing a developer environment on Windows, Mac or Linux machines.

Virtual Box installers for Windows & Mac are on the Flash drives:

Windows: VirtualBox-3.2.10-66523-Win.exe

Mac: VirtualBox-3.2.10-66523-OSX.dmg

Linux: http://www.virtualbox.org/wiki/Linux_Downloads

Import Virtual Appliance

File menu | Import Appliance

Choose (browse to Flash drive):

Eden-Dev.ovf



Initial Configuration

Run Sahana:

- Launch **Eclipse**
- Run menu | Debug
- [Launch Firefox](#)

1st-time Configuration:

- Edit models/000_config.py

```
FINISHED_EDITING_CONFIG_FILE = True
```

- Refresh browser
- Register yourself

Within the Virtual Machine, the normal way to run Sahana is to start the Eclipse Debugger.

Firefox homepage is set to the Eden home: <http://127.0.0.1:8000/eden>

Since this is a private Developer environment, we don't need to worry too much about security or performance – so shouldn't need to configure any other settings just yet.

The first user to register gets admin rights.



Model-View-Controller

web2py/applications/eden/

- **Models**

- Define Tables in the Database

- **Controllers**

- Workflow, Logic

- **Views**

- HTML / JS Templates parsed server-side
 - JS functions then run client-side in browser

Look around the filesystem in web2py/applications/eden folder

Similar layout structure to other MVC frameworks, such as Ruby-on-Rails & Django

Also have:

Static

- no server-side processing

- Images

- CSS

- JavaScript

Modules

- Python libraries



End

We will learn to code tomorrow...meanwhile we'll look at using Bzr