

The AOSP and AAOS Meetup

Cuttlefish Development & Deployment

Configuration Schema

- Schema: [load_config.proto](#)
- Support multiple device.
- `cvd create --config_file config.json`

```
{
  "instances": [{
    "@import": "phone",
    "vm": {
      "memory_mb": 8192,
      "setupwizard_mode": "OPTIONAL",
      "cpus": 4
    },
    "disk": {
      "default_build":
"@ab/aosp-android-latest-release/aosp_cf_x86_64_only_phon
e-userdebug",
      "download_img_zip": true
    }
  },
  {
    ...
  }
]
}
```

HTTP Layer

- **New REST API on top of cvd CLI, a.k.a Host Orchestrator**
 - `curl -i -X POST -H 'Content-Type: application/json' -d @/tmp/config.json http://127.0.0.1:2080/cvds`
 - `curl -i -X GET http://127.0.0.1:2080/cvds`
- **Discourage SSH**
 - HTTP to manage device lifecycles
 - WebRTC/WebSockets for adb connection [Not yet stable]
- **Open API Specification: [link](#)**

Build & Deploy

Packages

- cuttlefish-base.deb -> *cvd*
- cuttlefish-user.deb -> *stream UI via WebRTC*
- cuttlefish-orchestration.deb -> *HTTP API*

Build the packages

- Build the package with [containers](#) to ensure portability.
- Or download already built packages from Github CI

Host Image Tooling [GCP Only]

- Use image building pipeline [tooling](#).
- >fixed_kernel | base_image | install_packages | **custom_changes**