Your turn-key Cockpit UI in a CI/CD ecosystem

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DevConv.CZ 2019
IaaS
PaaS
SaaS
CoCICDaaS
Cockpit what?

• Interactive Server admin web interface
• Easy setup and troubleshooting for one or a few machines
• Included in all major distros
## Firewall

**Status:** ON

### Allowed Services

<table>
<thead>
<tr>
<th>Service</th>
<th>TCP</th>
<th>UDP</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cockpit</td>
<td>9090</td>
<td></td>
</tr>
<tr>
<td>DHCPv6 Client</td>
<td></td>
<td>546</td>
</tr>
<tr>
<td>Red Hat Satellite 6</td>
<td>53, 80, 443, 5000, 5546-5647, 5571, 8000, 8080, 8140, 9090</td>
<td>53, 67-69</td>
</tr>
<tr>
<td>SSH</td>
<td>22</td>
<td></td>
</tr>
<tr>
<td>WWW (HTTP)</td>
<td>80</td>
<td></td>
</tr>
</tbody>
</table>
Virtual Machines

Name          Connection          State
fedoraw-composer          System          shut off

rhe1744-domain-server      System          running

Overview  Usage  Disks  Networks  Consoles

Console Type: Graphics Console (VNC)

Employee SKU
Kernel 3.18.8-033.el7.x86_64 on x86_64

b1rch login: andreasn
Password:
Last login: Mon Jul 23 20:56:16 on tty1
[andreasn@b1rch ~]$
Imagine your own page here!

<script src="../base1/cockpit.js" />

API docs: https://cockpit-project.org/guide/latest
<table>
<thead>
<tr>
<th>Label</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Address</td>
<td>8.8.8.8</td>
</tr>
</tbody>
</table>

**Ping**

Output:
const button = document.getElementById("ping");
const address = document.getElementById("address");
const result = document.getElementById("result");
const output = document.getElementById("output");

button.addEventListener("click", () => {
    cockpit.spawn(["ping", "-c", "4", address.value])
        .stream(data => output.append(
            document.createTextNode(data))
        .done(() => {
            result.innerHTML = "success";
            result.style.color = "green";
        });
});
Address: piware.de

**Ping**

Success

PING piware.de (2a03:4000:6:4019::2) 56 data bytes
64 bytes from www.piware.de (2a03:4000:6:4019::2): icmp_seq=1 ttl=64
64 bytes from www.piware.de (2a03:4000:6:4019::2): icmp_seq=2 ttl=64
64 bytes from www.piware.de (2a03:4000:6:4019::2): icmp_seq=3 ttl=64
64 bytes from www.piware.de (2a03:4000:6:4019::2): icmp_seq=4 ttl=64

--- piware.de ping statistics ---
4 packets transmitted, 4 received, 0% packet loss, time 7ms
rtt min/avg/max/mdev = 31.038/31.865/33.072/0.787 ms
Public projects

- Code layout
- Modern frameworks: React, PatternFly
- Build system: Babel, ESLint, webpack
- Tests/CI
- Automated releases
Bootstrapping with Cockpit starter-kit

```
git clone https://github.com/cockpit-project/starter-kit
cd starter-kit
make devel-install
sudo make install
make rpm
```
Starter Kit

Running on donald
Integration testing

$ TEST_OS=rhel-7-6 make check
1..1

# testBasic (__main__.TestStarterKit)
#

ok 1 testBasic (__main__.TestStarterKit) # duration: 21s
Automated releases

$ cat ./cockpituous-release
RELEASE_SOURCE="_release/source"
RELEASE_SPEC="cockpit-starter-kit.spec"
RELEASE_SRPM="_release/srpm"

job release-source
job release-srpm

# job release-koji -k master
# job release-koji f29
# job release-bodhi F29
# job release-github
# job release-copr @myorg/myrepo
package.json: Update react package dependency #75

```
"dependencies": {
  "@babel/polyfill": "7.0.0",
  "node-sass": "4.11.8",
  "react": "16.6.3",
  "react-dom": "16.6.7"
}
```

martinpitt approved these changes 14 days ago

martinpitt merged commit 90a9ba6 into cockpit-project:master 14 days ago

3 checks passed

- cockpit/centos-7 Tests passed
- cockpit/fedora-29 Tests passed
- continuous-integration/travis-ci/pr The Travis CI build passed
Current users

- Composer
- cockpit-podman
- cockpit-ostree
Contact

- #cockpit on Freenode
- https://cockpit-project.org
- Hackfest: Sunday 14:30 to 15:15, room A218