

Authenticate to Cockpit from anywhere

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Cockpit what?

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

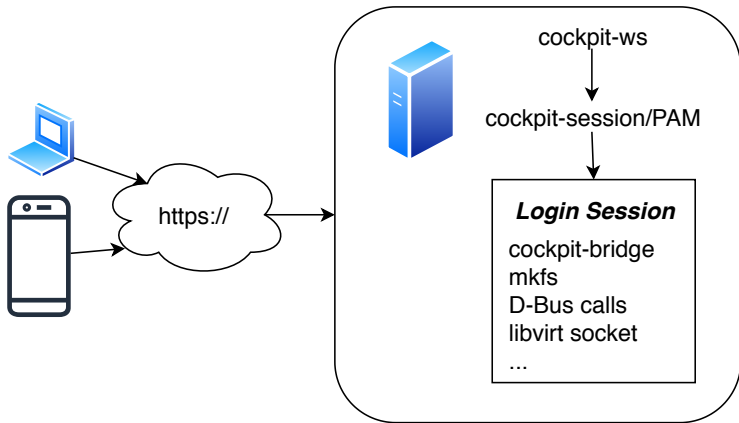
Extending LVM

```
pvcreate /dev/sdb2  
vgextend vg0 /dev/sdb2  
lvresize --extents '+100%FREE' vg0/data1  
resize2fs /dev/vg0/data1
```

Accessible from any browser

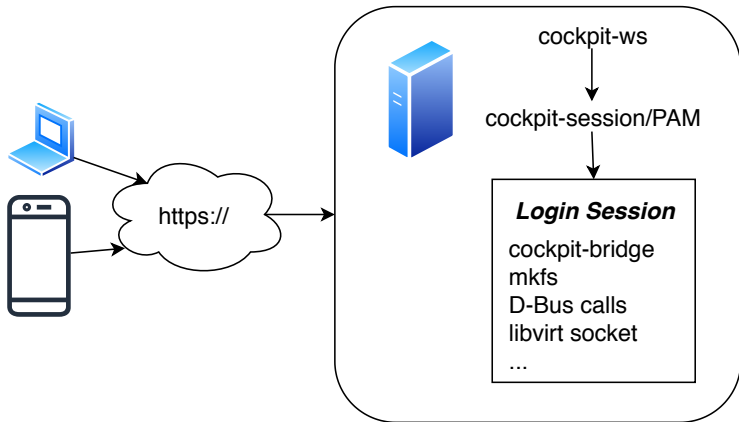
- Windows/Edge
- Mobile devices
- Simple install
- Zero configuration

Anatomy: cockpit-ws



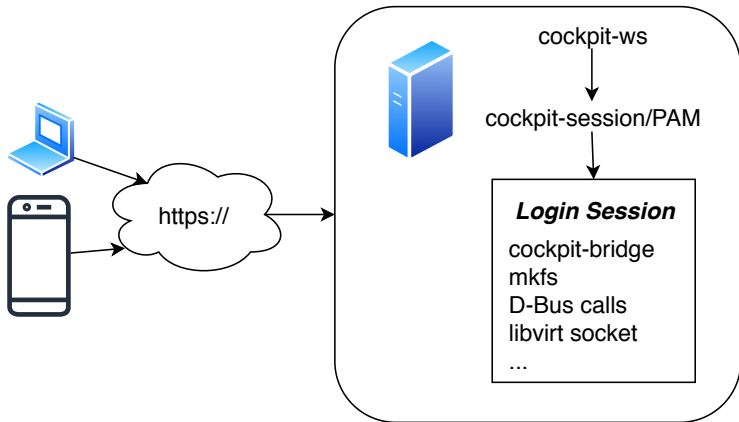
- TCP http+WebSocket ↔ JSON pipe
- collect credentials

Anatomy: cockpit-session



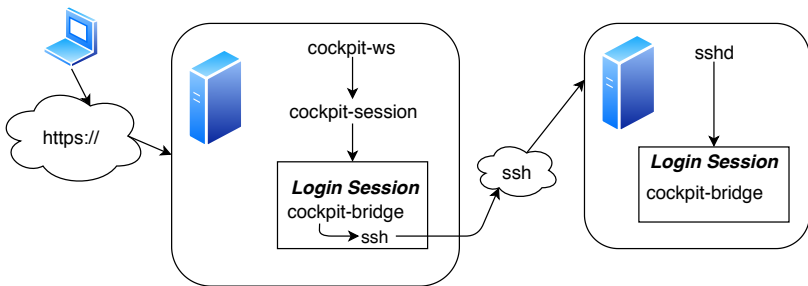
- ws credentials → PAM session
- forward JSON pipe to session leader

Anatomy: cockpit-bridge



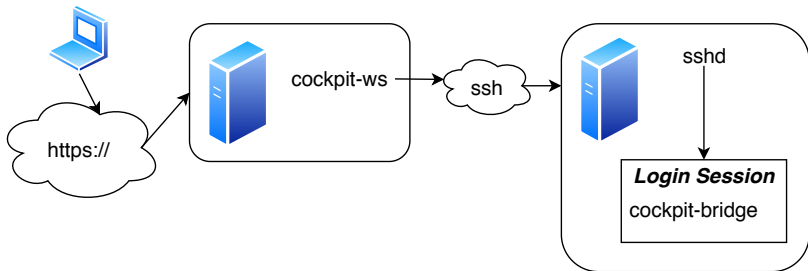
- session leader, cockpit's "bash"
- JSON on stdio ↔ system APIs

SSH sessions



nothing Cockpit specific running outside of the user session

Bastion host



Enforce using ssh in cockpit.conf(5):

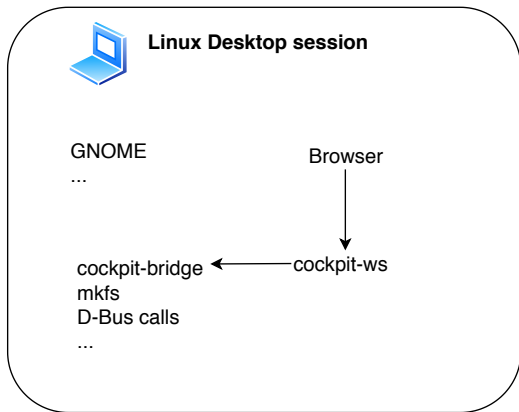
```
[WebService]
```

```
RequireHost=true
```

Other authentication setups

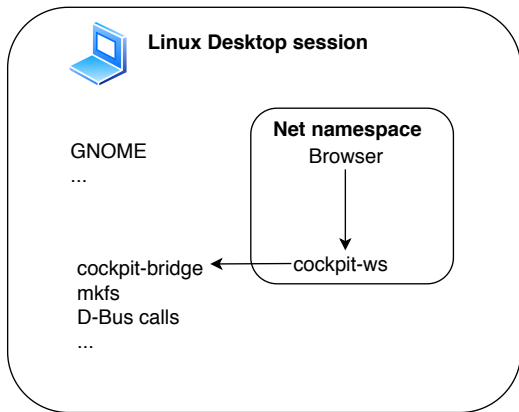
- SSO/Kerberos in Identity Management domains
- smart card/client certificate authentication
- OAuth (external embedding)
- Foreman: included cockpit-ws with dynamic configuration

Embedding into existing session



```
cockpit-ws -p 9999 --no-tls --local-session=/usr/bin/cockpit-bridge  
firefox http://localhost:9999
```

Embedding into existing session: once more with safety!



Conclusion

- Authentication is very flexible
- Works with zero configuration
- Can be arbitrarily embedded and customized

Q & A

Contact:

- #cockpit on Freenode
- <https://cockpit-project.org>

Useful links:

- Authentication configuration
- Authentication protocol