Uni Software Defined Infrastructure Notes

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Introduction

Contributing

License

User

SSH

UFW

APT

Cockpit

Caddy

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Contributing

These study materials are heavily based on professor Goik's "Software Defined Infrastructure" lecture at HdM Stuttgart.

Found an error or have a suggestion? Please open an issue on GitHub (github.com/pojntfx/uni-sdi-notes):



Figure 1: QR code to source repository

If you like the study materials, a GitHub star is always appreciated :)



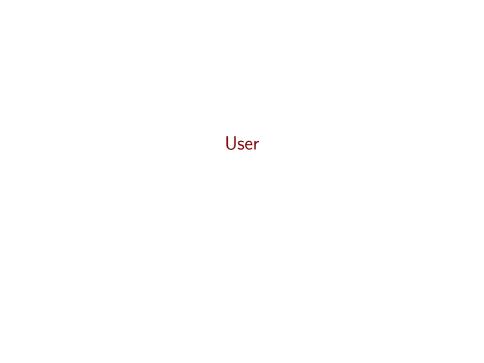
License



Figure 2: AGPL-3.0 license badge

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SPDX-License-Identifier: AGPL-3.0



User

ssh root@138.68.70.72
adduser pojntfx
usermod -aG sudo pojntfx
su pojntfx



SSH

```
sudo apt update
sudo apt install -y openssh-server
sudo systemctl enable --now ssh
mkdir -p ~/.ssh
chmod 700 ~/.ssh
curl 'https://github.com/pojntfx.keys' | tee -a ~/.ssh/autl
chmod 600 ~/.ssh/authorized_keys
exit
```



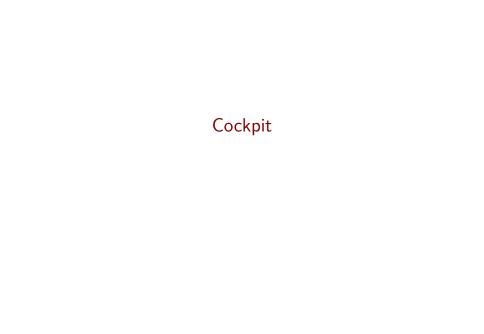
UFW

ssh pojntfx@138.68.70.72
sudo apt update
sudo apt install -y ufw
sudo systemctl enable --now ufw
sudo ufw default deny incoming
sudo ufw default allow outgoing
sudo ufw allow OpenSSH
sudo ufw enable



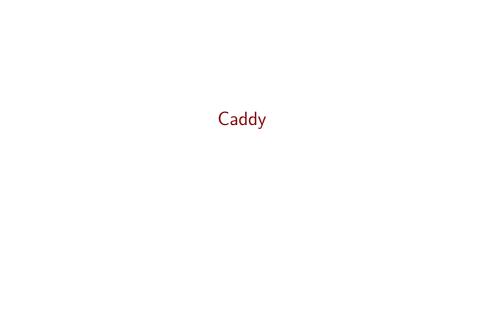
APT

```
sudo apt update
sudo apt install -y unattended-upgrades
sudo vi /etc/apt/apt.conf.d/50unattended-upgrades # Now rep
Unattended-Upgrade::Origins-Pattern {
  "origin=*";
Unattended-Upgrade::Automatic-Reboot "true";
Unattended-Upgrade::Automatic-Reboot-Time "02:00";
sudo dpkg-reconfigure unattended-upgrades # Answer with yes
sudo systemctl enable --now unattended-upgrades
sudo unattended-upgrades --debug # Test the configuration;
sudo reboot # If required
```



Cockpit

echo 'deb http://deb.debian.org/debian bullseye-backports sudo apt update sudo apt install -t bullseye-backports -y cockpit



Caddy curl -L 'https://dl.cloudsmith.io/public/caddy/stable/gpg.l curl -L 'https://dl.cloudsmith.io/public/caddy/stable/debis sudo apt update sudo apt install -y caddy sudo tee /etc/caddy/Caddyfile <<EOT {</pre>

```
email felix@pojtinger.com
}
cockpit.felixs-sdi1.alphahorizon.io {
        reverse_proxy https://localhost:9090 {
            transport http {
                tls_insecure_skip_verify
EOT
sudo systemctl enable --now caddy
```