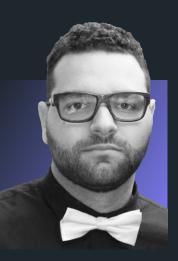




# Automated System Updates as a Self-Service



#### **Cosimo Russo**

IT Business Consultant comNET GmbH





#### **Fabian Binder**

IT Business Consultant comNET GmbH





# Self Service Updates with Checkmk & Netbox

**Cosimo Russo & Fabian Binder** 

### THE COMPANY

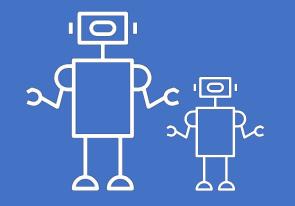
#### COMNET

- IT systems provider
- •est. 1991
- Checkmk partner since 2014
- Gold partner status

#### COMNET INTRODUCTION

#### • Cosimo Russo

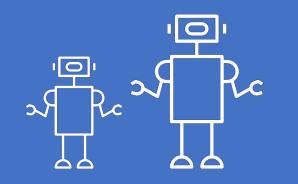
- •IT Business Consultant
- 30 years young
- •Short career path to comNET GmbH

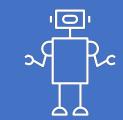


### INTRODUCTION

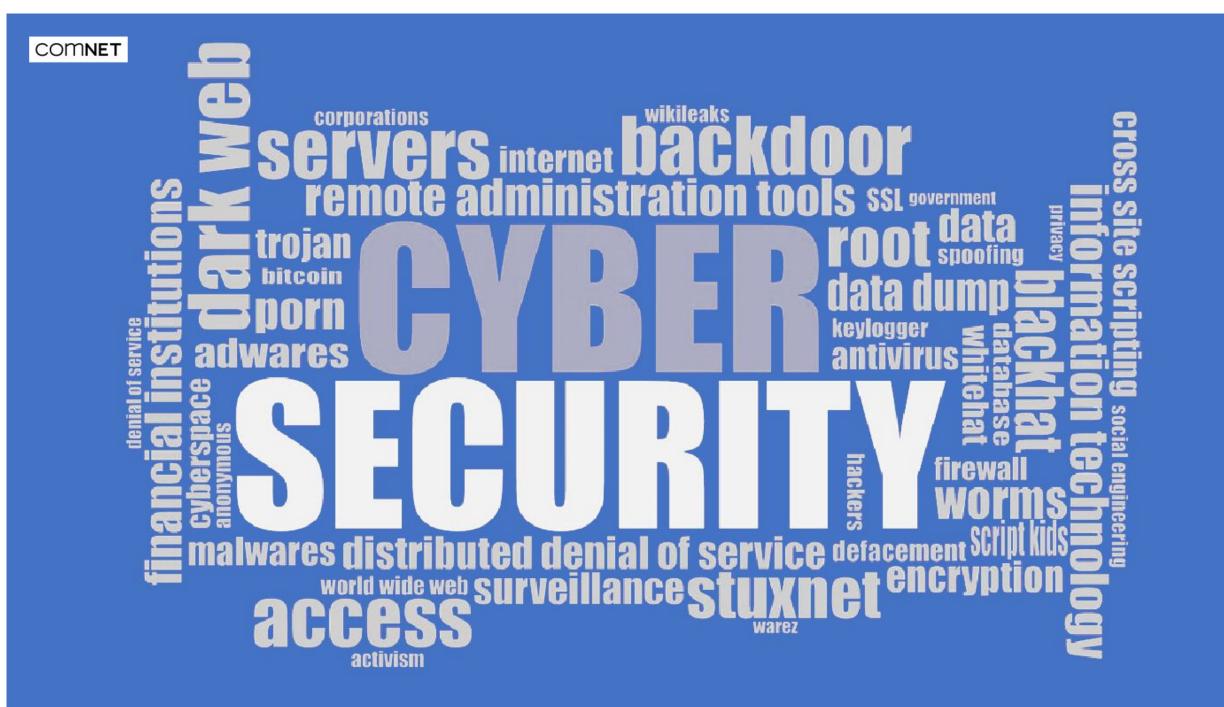
#### • Fabian Binder

- •IT Business Consultant
- Also quite young
- In comNET GmbH's monitoring team since 2015





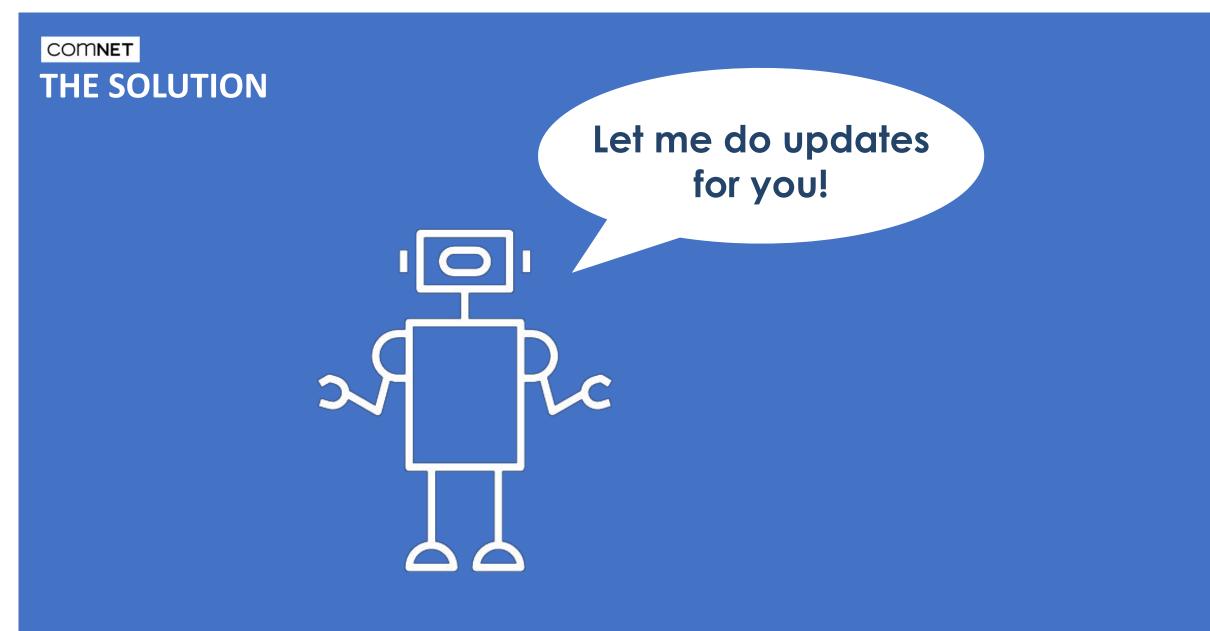
## The Problem



# Updates are Important!

#### COMNET WHAT'S WRONG WITH UPDATING?

- Several different responsible parties
- Updates need planning
- IT Admins don't have much time
- Not all updates can be done at once



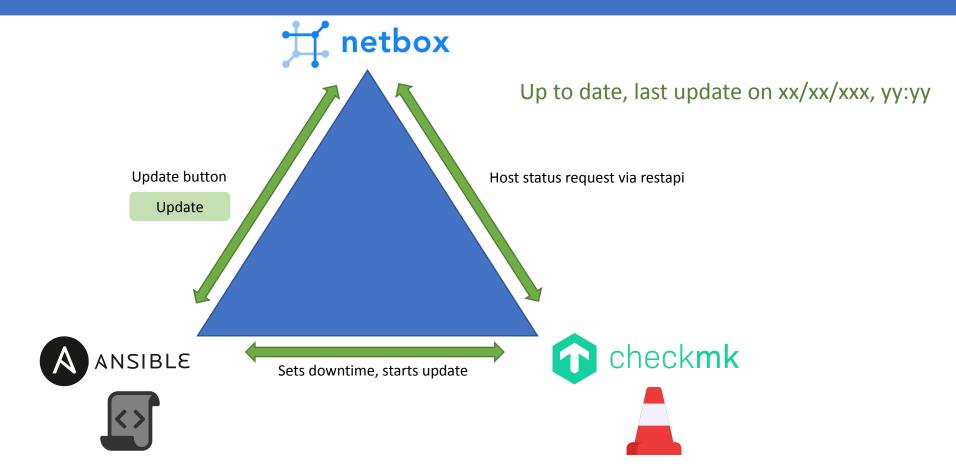
#### COMNET Automated updates as a SELF-SERVICE

- Trusted responsible
- Easy preparation & planning
- Full control
- Easy to use: Just one click

#### COMNET What is NETBOX?

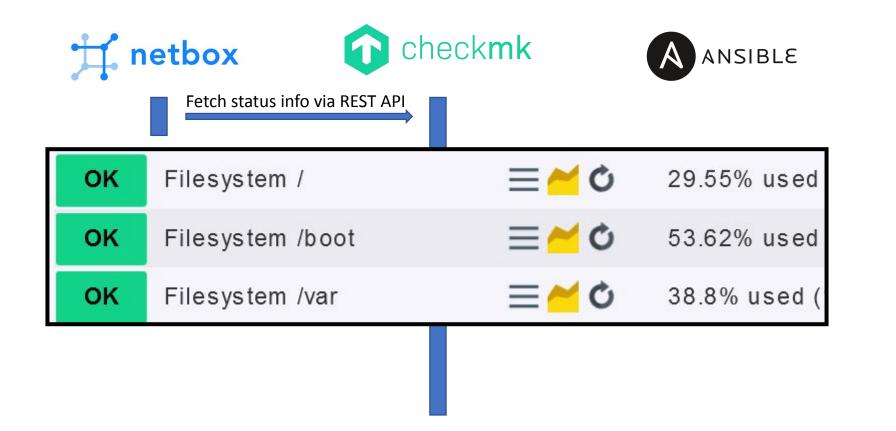
- Open Source DCIM and IPAM tool
- Written in Python
- Easily extensible





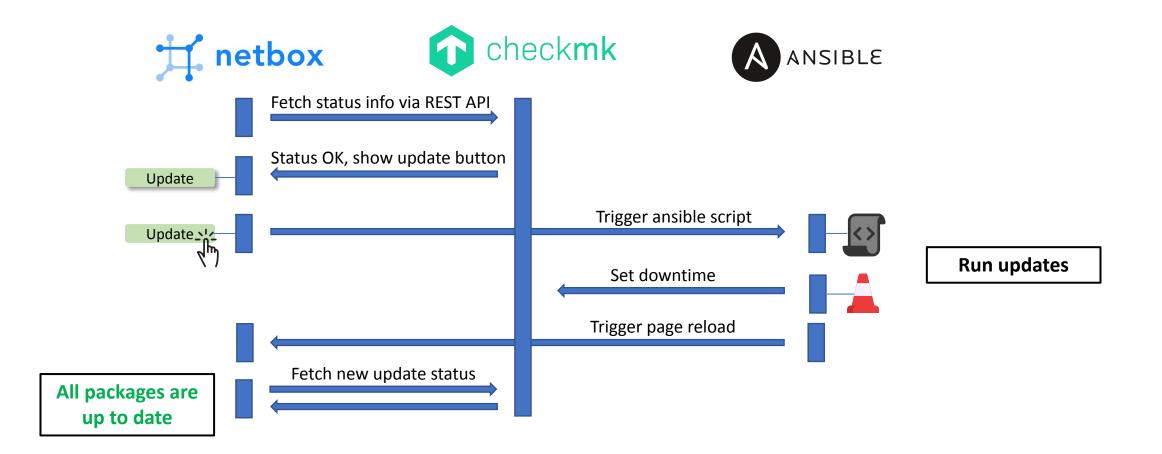












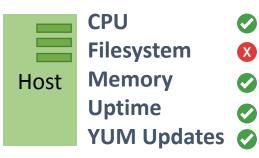


YUM Updates 📀











Update

Update button not clickable



COMNET DEMONSTRATION TIME!

#### Let's have a look!

| 🛒 netbox            | -      |   | Search                   |   |                       | ٩      | Q              |       |             |                 |
|---------------------|--------|---|--------------------------|---|-----------------------|--------|----------------|-------|-------------|-----------------|
| 74                  |        | Virtual Machine Interfaces 1 Config Context J                           | ournal Changelog         |   |                       |        |                |       |             |                 |
| <b>Organization</b> | >      |   |                          |   |                       |        |                |       |             |                 |
| Devices             | >      | Virtual Machine   |                          |   | Cluster               |        |                |       |             |                 |
| Connections         | >      | Name rocky-vm   |                          |   | Site                  |        | cmkconf        |       |             |                 |
| ᅙ Wireless          | >      | Status Active   |                          | • | Cluster               |        | local          |       |             |                 |
|                     |        | Role —  |                          |   | Cluster Type          |        | VMware vsphere |       |             |                 |
| 13 IPAM             | >      | Platform —  |                          |   | Device                |        |                |       |             |                 |
| र्श्त Overlay       | >      | Description —   |                          |   |                       |        |                |       |             |                 |
| Virtualization      | ~      | Tenant         —           Primary IPv4         192.168.56.2            |                          |   | Resources             |        |                |       |             |                 |
| VIRTUAL MACHINES    |        | Primary IPv6 —  |                          |   | ② Virtual CPUs        |        |                |       |             |                 |
|                     | 1      |   |                          |   | Memory                |        |                |       |             |                 |
| Interfaces +        | ±      |   |                          |   | Disk Space            |        | <u>191</u>     |       |             |                 |
| CLUSTERS            |        | Tags  |                          |   |                       |        |                |       |             |                 |
| Clusters +          |        | No tags assigned  |                          |   |                       |        |                |       |             |                 |
|                     | 1<br>1 |   |                          |   | Services              |        |                |       |             |                 |
|                     |        | Comments  |                          |   | Name                  | Parent | Protocol       | Ports | Description |                 |
| S Circuits          | >      | None  |                          |   | — No services found — |        |                |       |             |                 |
| Power               | >      |   |                          |   |                       |        |                |       |             |                 |
| Provisioning        | >      | System Update<br>1 update available, last update was run at Mar 08 2023 | Tags<br>No tags assigned |   |                       |        |                |       |             | + Add a service |
| E Customization     | >      | 20:01:00  | no taga tasagned         |   | Contacts              |        |                |       |             |                 |
| Coperations         | >      |   | Comments                 |   | None                  |        |                |       |             |                 |
|                     |        | ▶ Run System Update   | None                     |   |                       |        |                |       |             | + Add a contact |

## Final thoughts: Updates are finally easy to use... for everyone!

# Final thoughts: Image: What else could we automate?

Any questions? Thanks for your attention!

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