# System & Netzwerk Monitoring mit Icinga

Linux-Infotag Augsburg 2019



#### Introduction

- Linux & Monitoring
- Augsburg / Salzburg

#### **Moritz Tanzer**



@moritztanzer



mt@itstack.at



www.itstack.at

# **Agenda**

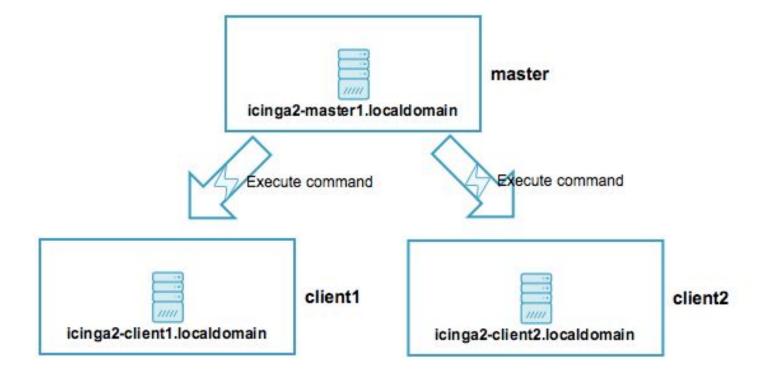
- Icinga Basics
- Architecture
- Plugins
- Configuration
- Visualization
  - Web UI & Modules
  - Metrics
- Escalation
- Getting Started



## **Icinga Basics**

- Open Source Monitoring Framework
- Monitoring
  - Service (Ping, IMAP, HTTP, ...)
  - System (OS, Services, Ressources, Hardware)
  - Network Devices (SNMP)
  - Sensors (Temperature, Humidity)
- Modular
  - Web Modules
  - Plugins
  - Notifications
- High Availability
- Enterprise ready (SLA report feature coming soon)

#### **Server Client Architecture**



## **Icinga Installation**

[root@monitor ~]# yum install icinga2 monitoring-plugins

[root@monitor ~]# icinga2 feature enable api

Enabling feature api. Make sure to restart Icinga 2 for these changes to take effect.

[root@monitor ~]# icinga2 feature list

Disabled features: command compatlog debuglog elasticsearch gelf graphite livestatus opentsdb perfdata statusdata syslog

Enabled features: api checker ido-mysql influxdb mainlog notification

## **Icinga Agents**

- Certificate based Authentication
- Communication TLS encrypted
- Configuration Sync

```
root@server1:~# icinga2 feature list

Disabled features: command compatlog debuglog elasticsearch gelf graphite icingastatus influxdb
livestatus notification opentsdb perfdata statusdata syslog

Enabled features: api checker mainlog
```

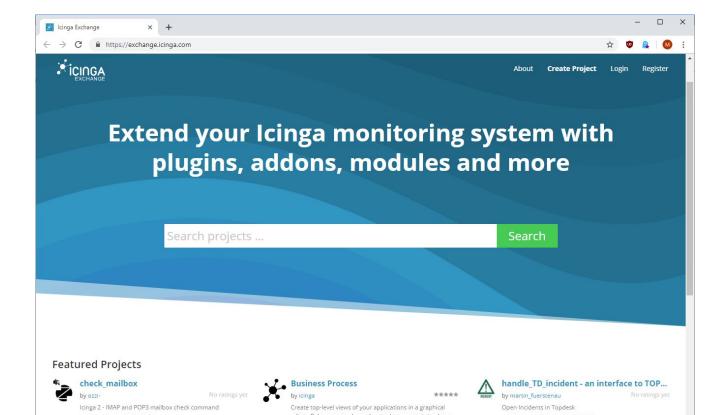
# **Plugins**

```
root@server1:~# apt-get install monitoring-plugins
```

```
root@server1:~# ls -l /usr/lib/nagios/plugins

- check_disk
- check_http
- check_load
- check_ssh
- ...
```

# https://exchange.icinga.com



# **Writing Plugins**

- Any Language
- Exit Codes (0, 1, 2, 3)
- Active / Passive
- Performance Data (sensors, counter)



#### **Web UI Modules**

- Maps
- Dashing
- X.509



### **Escalation / Notification**

- E-Mail
- SMS / Messenger
- Voice
- PagerDuty & Co.
- Incident Management

## **Getting Started**

- https://community.icinga.com
- https://icinga.com/docs/icinga2/latest/
- https://github.com/lcinga/icinga-vagrant
  - Install Vagrant & Virtualbox
  - o git clone ...
  - vagrant up
- Meetups

## **Questions?**