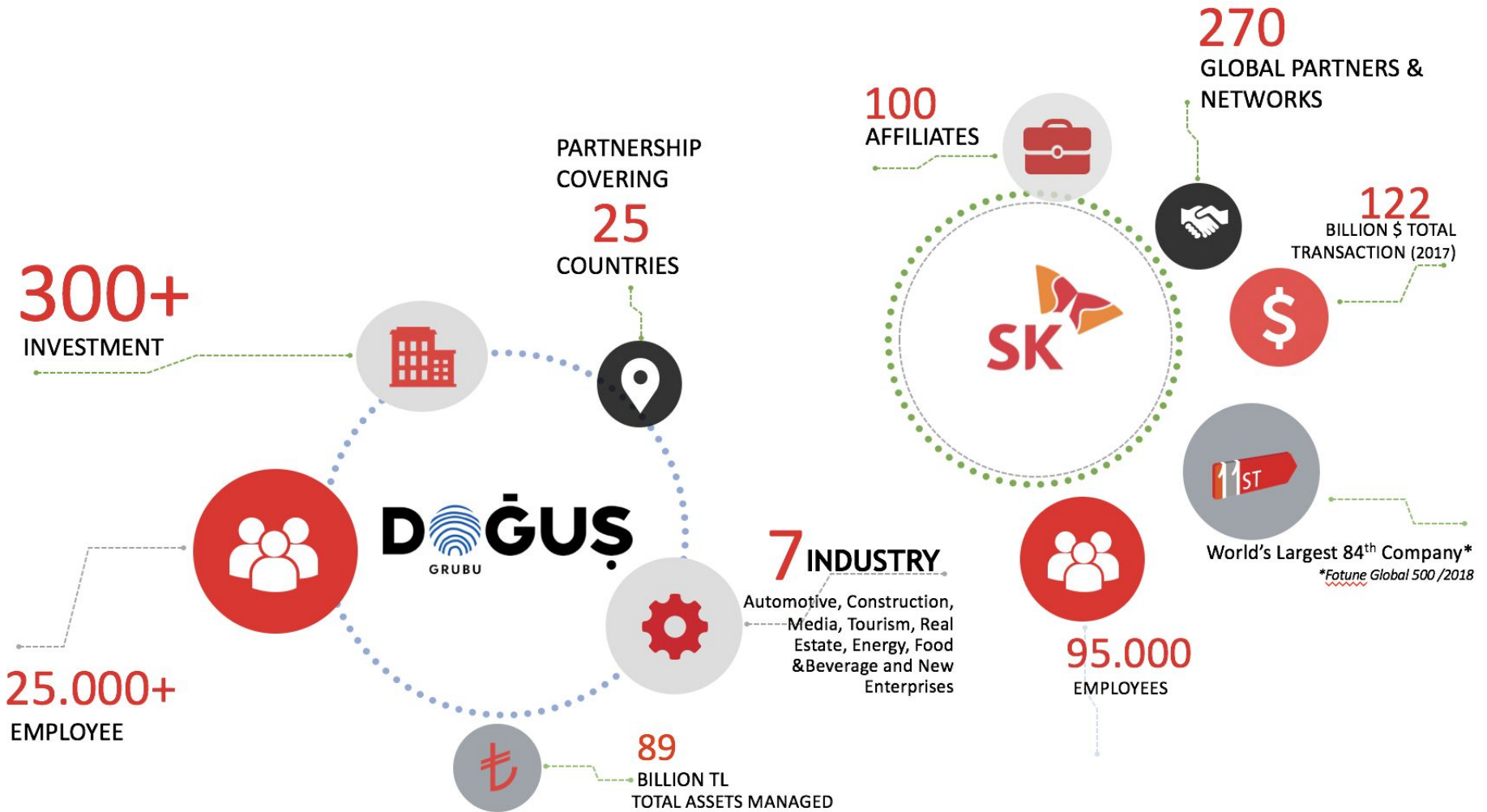


The Tool To Monitor Them All

Gizem İrem Kozan
Sr. System Admin

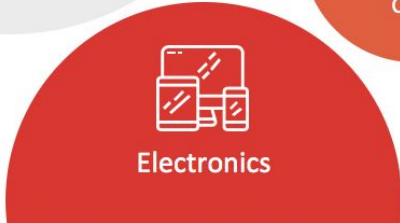
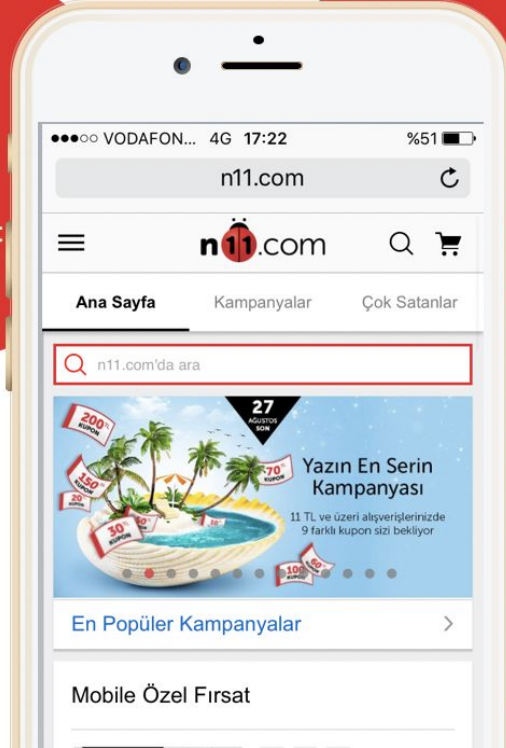
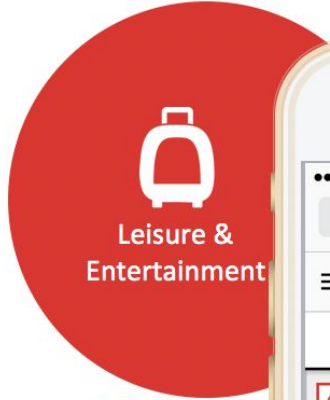


ABOUT COMPANY - PARTNERSHIP



THOUSANDS OF STORES, MILLIONS OF PRODUCTS

n11.com works as an open market platform with thousands of stores, where millions can reach with only one click, can visit all stores at the same time and can easily compare stores and products.





TRANSFORMATION CHALLENGE

- Reduce opex
- Avoid complicated and slow integrations
- Support opensource
- Access to data when needed
- Collaborate with other teams
- Less dashboard tools to look after
- Low performance requirement per agent (100MB memory, %0.7 cpu)



DEVELOPING SKILLS

- Easy to implement with guidance (templates)
- Adaptable to our environment (different protocols for every product)
- Allow us to install and customize (shell and python scripts, own items)
- Automated detection of changes (low level discovery)

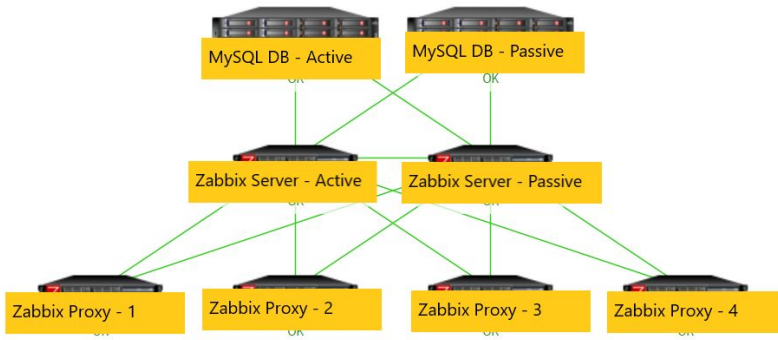
gkozan 1:42 AM
jarvis graf db datadomain:usage now-1M

jarvis APP 1:42 AM
FILESYSTEM Usage ▾



-2M

PLANNING PHASES



1. reading and research
2. integrations and development
3. compliance, optimization and roadmap

```
host_tags = list()
for k, v in script_config["host_metadata"].iteritems():
    if v["tag"]:
        host_tags.append(v["name"])
        host_metadata.append(v["name"])
    LOGGER.info("Metadata configured. Name: '{0}'.".format(v["name"]))
    if v["write_file"] is not None:
        write_file(v["write_file"], v["name"])
        LOGGER.info("Wrote the metadata information to file. File: '{0}'.".format(v["write_file"]))
metadata = "|".join(host_metadata)
write_file(script_config["tags_path"], "|".join(host_tags))
return metadata
```

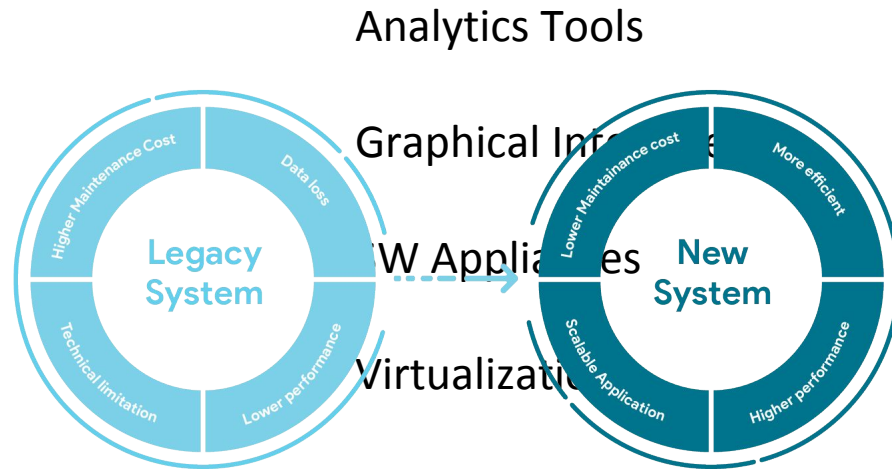

THE PROCESS

Network Switches



Hypervisors

LoadBalancers



Analytics Tools

Graphical Interface

Web Applications

Virtualization

Kubernetes

Reporting & Dashboards



Reporting & Dashboards



Reporting & Dashboards



Queue systems

THE PROCESS

- Working out the HA design and tests
 - active-passive zabbix-server with keepalived configuration
- Bitbucket as git repository for our own codes
 - NFS share and git ssh authentication from zabbix servers
- Scripts for agent monitoring with python
 - AutoInstallation
 - Reconfiguration
 - Satellite based agent repo management
 - Services to monitor
- Scripting for custom tools&devices with vendor python modules
 - Customized scripts to run on proxy nodes
- Dashboards (reduce tools to look after)
 - Adaption to devops culture with Slack Chatbot
 - Weekly & near realtime reports

THE PROCESS

- Working on MIB with a test zabbix appliance
 - Protocol not fully implemented by every hw device
 - Documentational issues
 - Version based OID differences
 - Altering templates shared by community
 - Adding SNMPv3 capability
 - Working out Macros
 - LLD implementation wherever needed
- Web scenarios to check websites & appliances
 - HTTP codes
 - Form POST+GET results
- Create triggers and actions needed
 - False positive tests
 - Planned tests
 - Lessons learned
 - Checking and reporting

THANKS

Zabbix Documentation

Zabbix Forum

Slack Channel (zabbix-turkiye.slack.com – 40 members and growing)

GitHub Users

Grafana Zabbix Plugin

alexanderzobnin

ntsulaia

kloczek

jeremyverda

brunohl

nurabasov

v-zhuravlev

stephenyeargin

digiapulssi

yigitbasalma