

DevOps on the AEM project

Speaker



Sergey Prikhodko, DevOps Engineer

- 7-years IT-engineering
- transition from QA engineer to QA lead of load testing team
- Complex load testing of bank software
- Blockchain
- Internet markets/CMS
- building complex analytics systems
- Master's degree in Saint-Petersburg State University of Aerospace Instrumentation (Russia)

Agenda

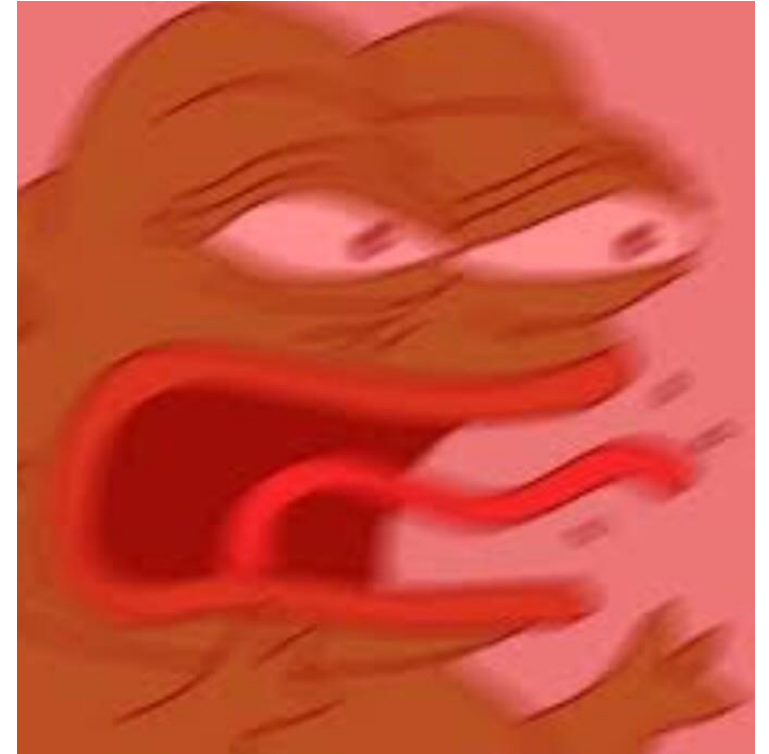
-
1. The specific of DevOps
 2. The Problems of DevOps
 3. Main scheme of envs
 4. Access method
 5. Accident investigation
 6. Conclusions.



1. The specific of DevOps :

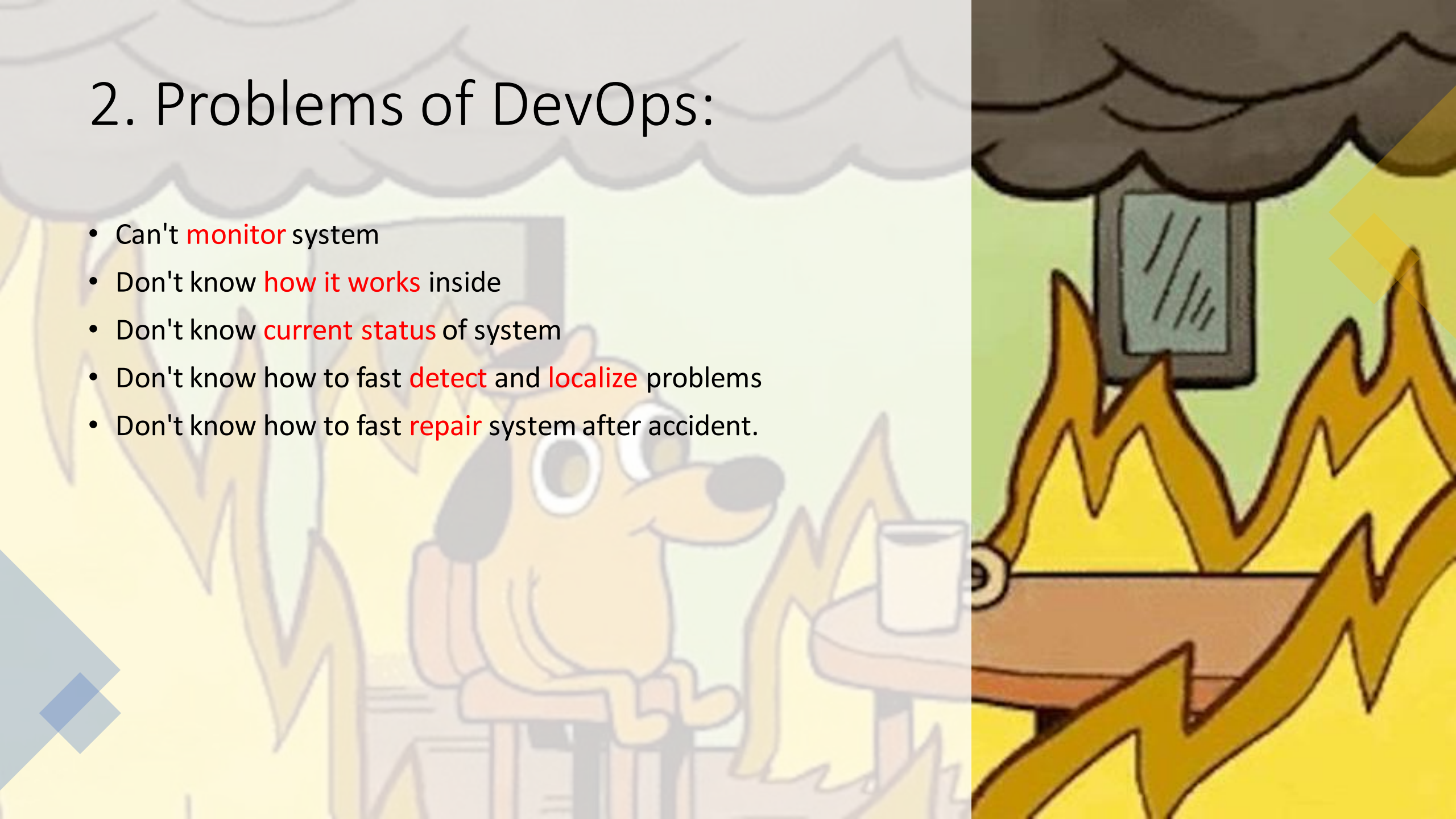


- Legacy version (v 6.1 doesn't support by Adobe officially)
- Huge monolithic core with many services
- Native JavaDB (H2)
- Connection method – ssh
- Configuration PROD via admins team of customer.

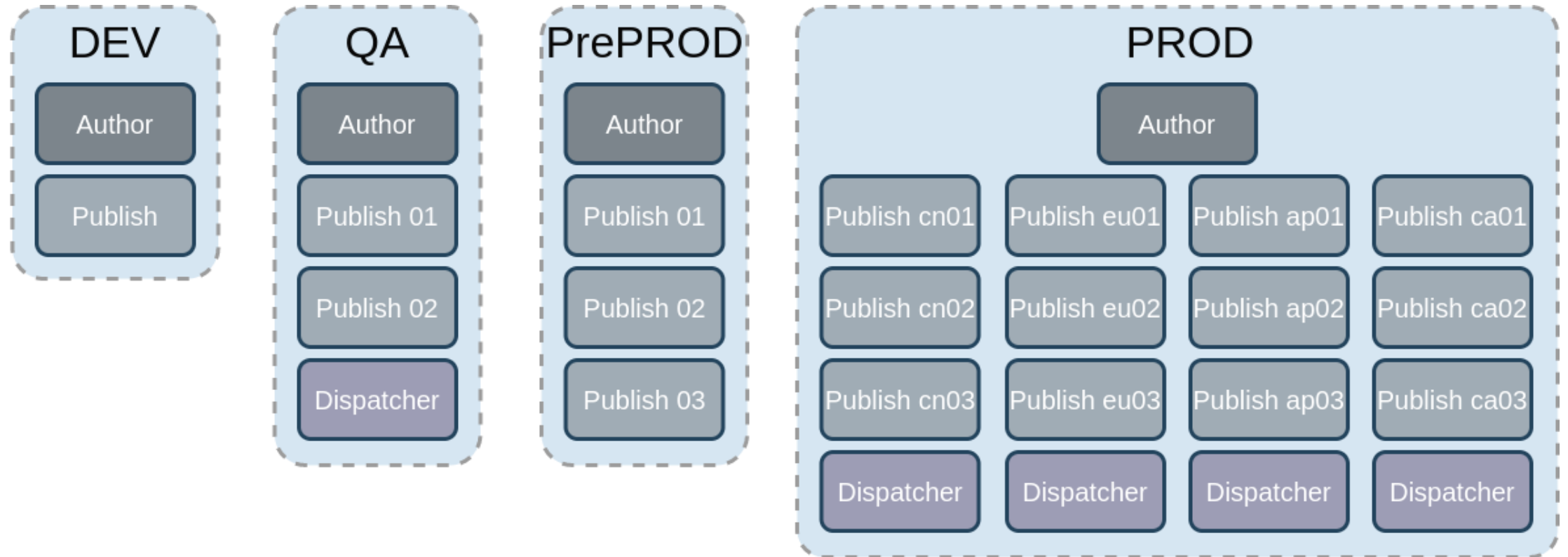


2. Problems of DevOps:

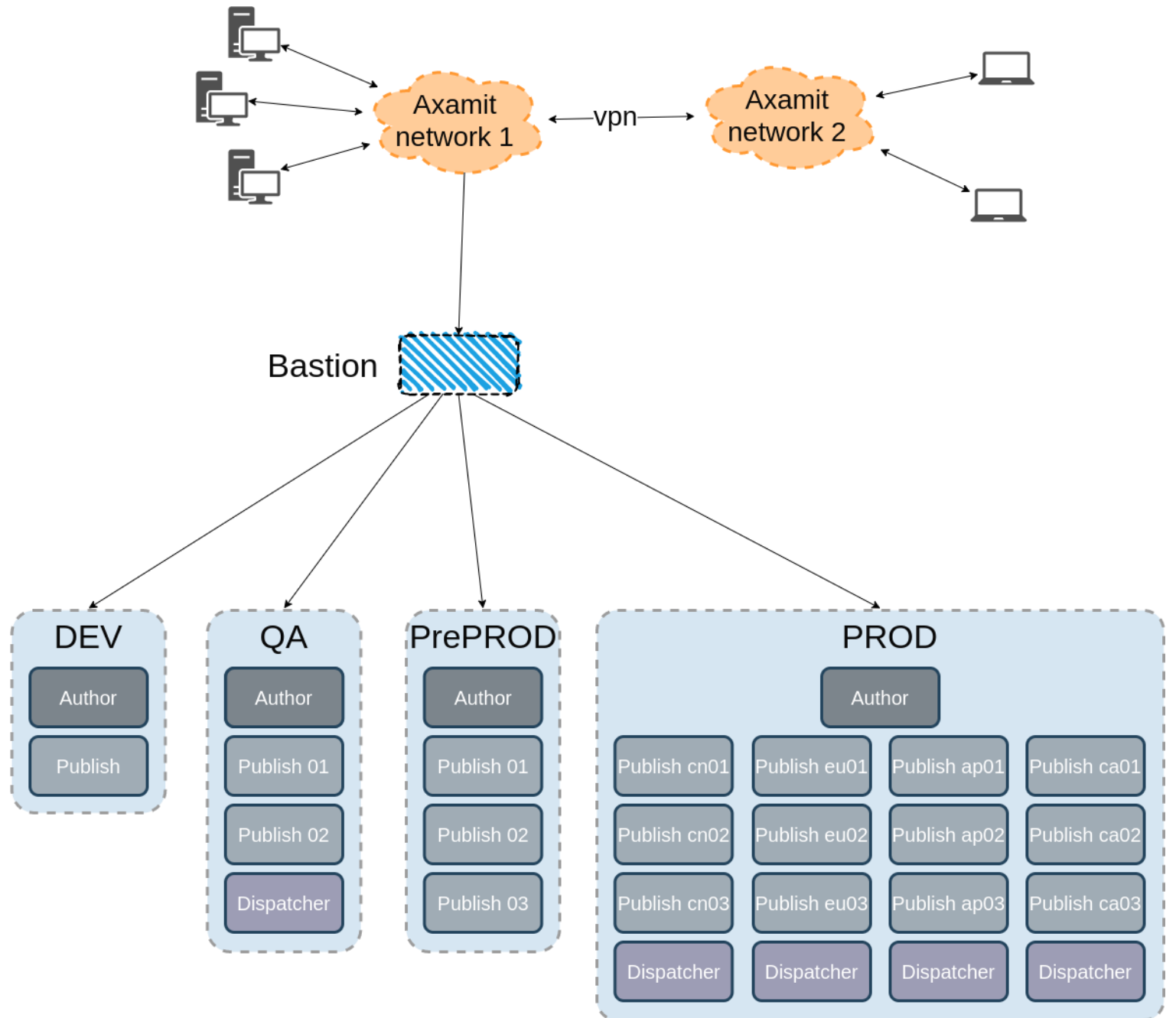
- Can't **monitor** system
- Don't know **how it works** inside
- Don't know **current status** of system
- Don't know how to fast **detect** and **localize** problems
- Don't know how to fast **repair** system after accident.



3. Infrastructure

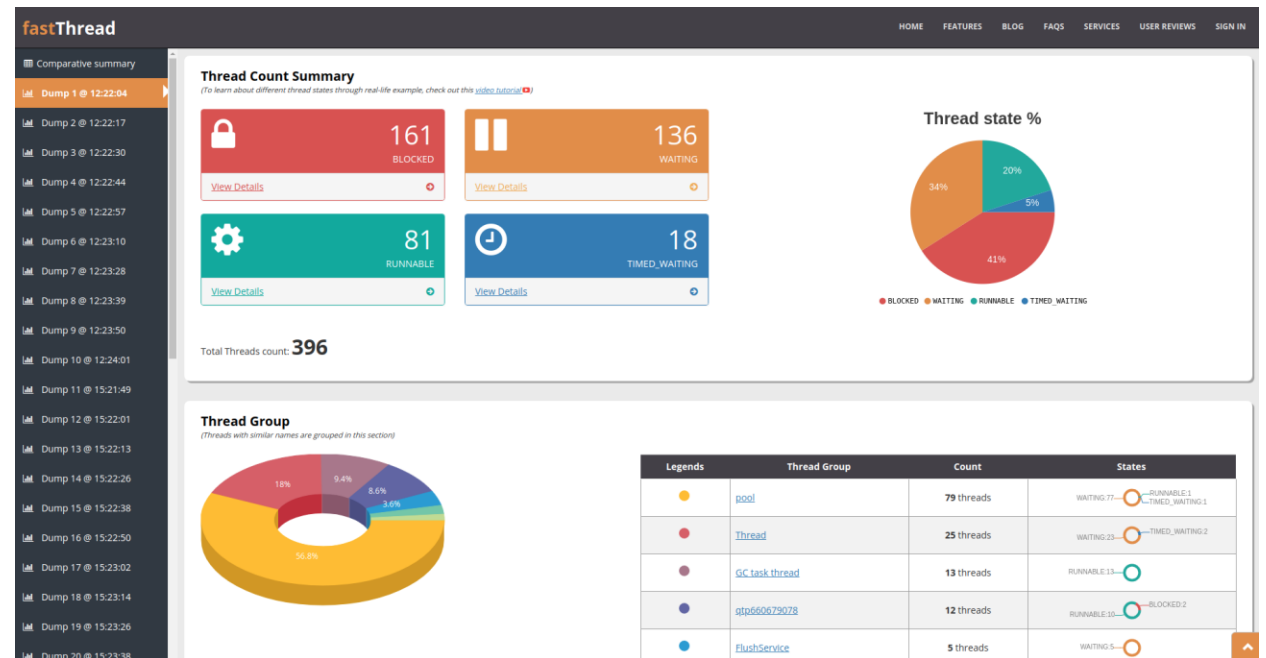


4. Infrastructure /Access method

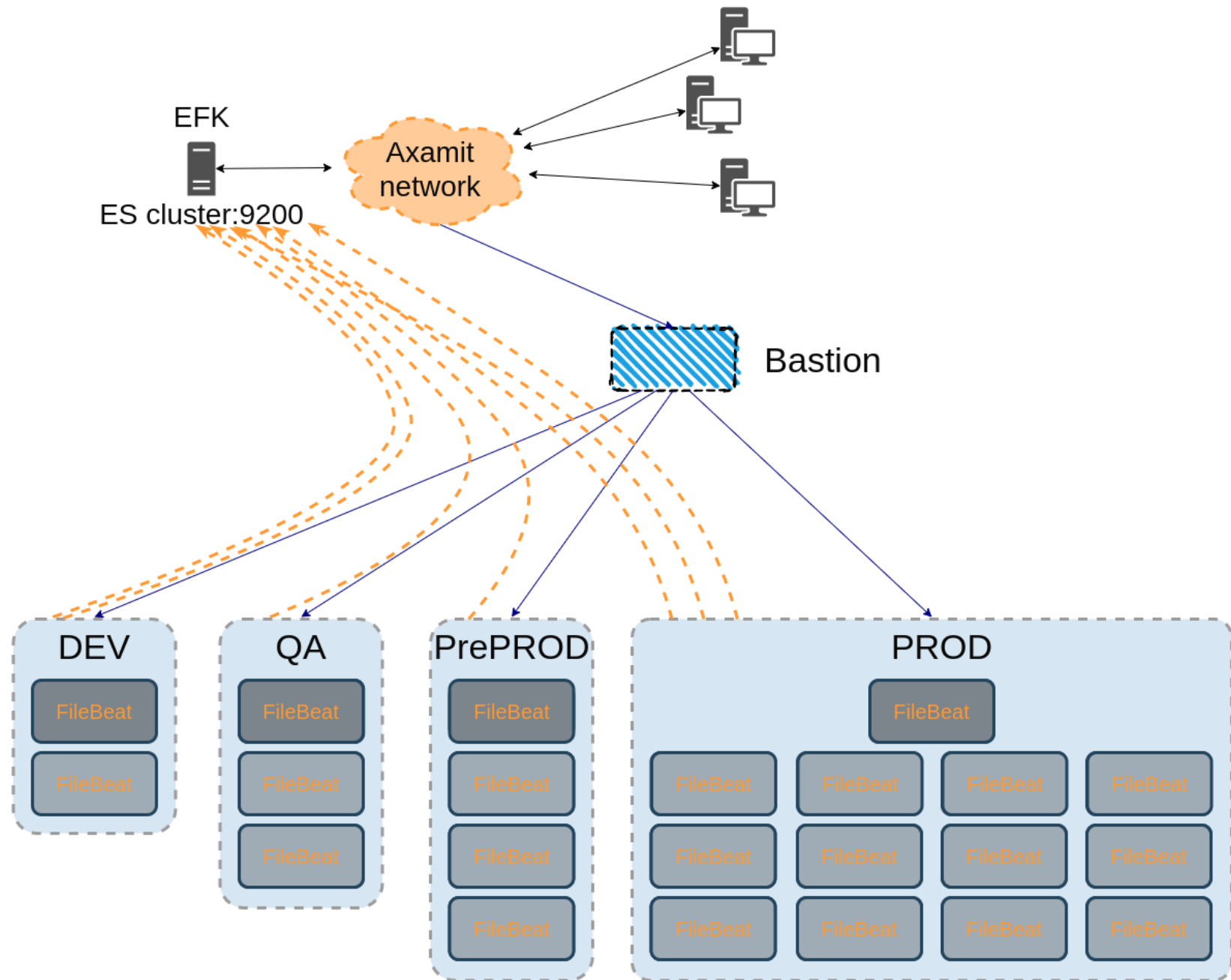


5. Accident investigation / Thread-dumps

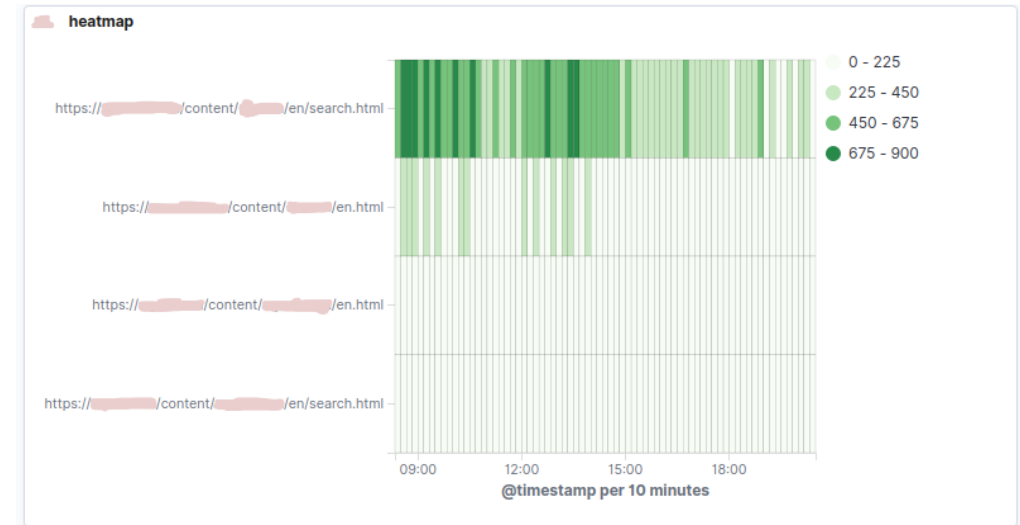
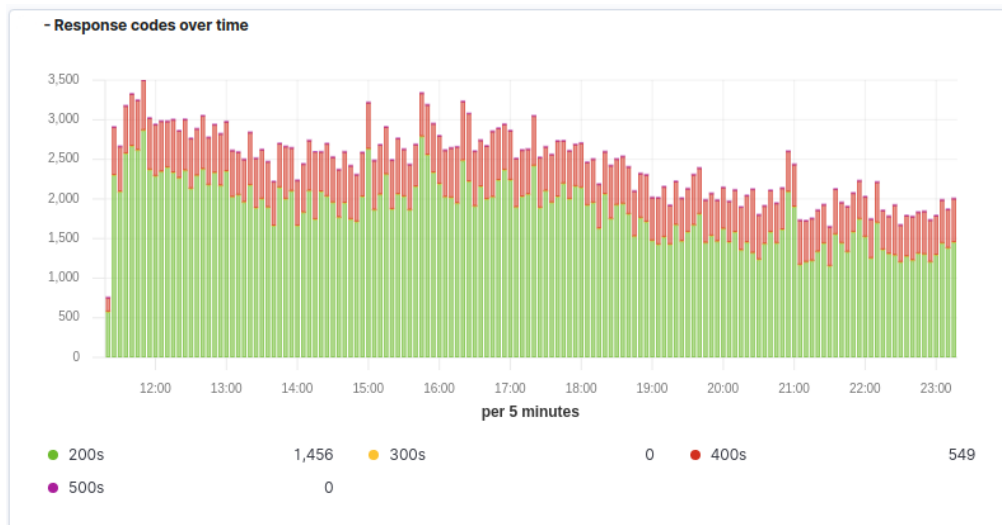
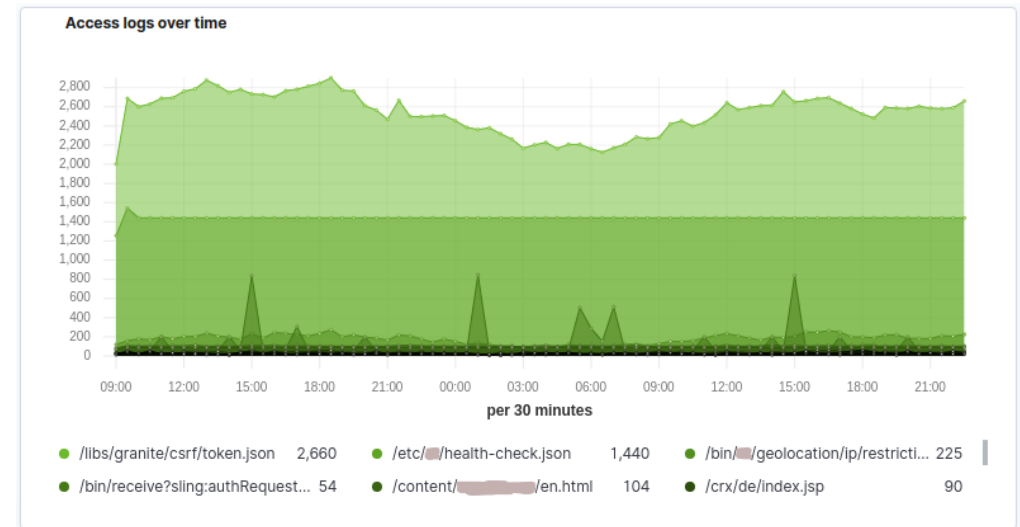
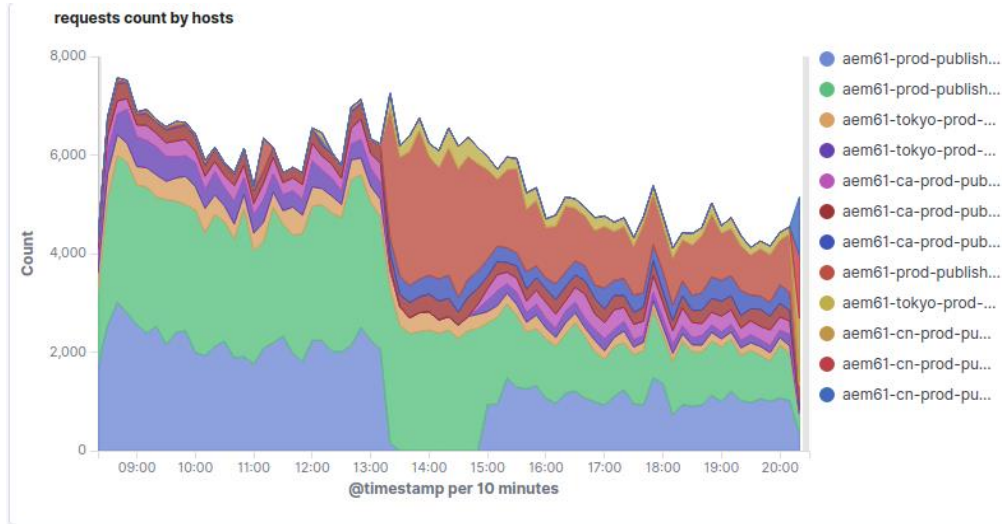
- Getting thread-dumps:
 - RunDesk
 - Job – 10 dumps via each 30 sec
 - Ansible to collect dumps
- Analytics with Fastthread.io
 - Online report
 - Sharing between team



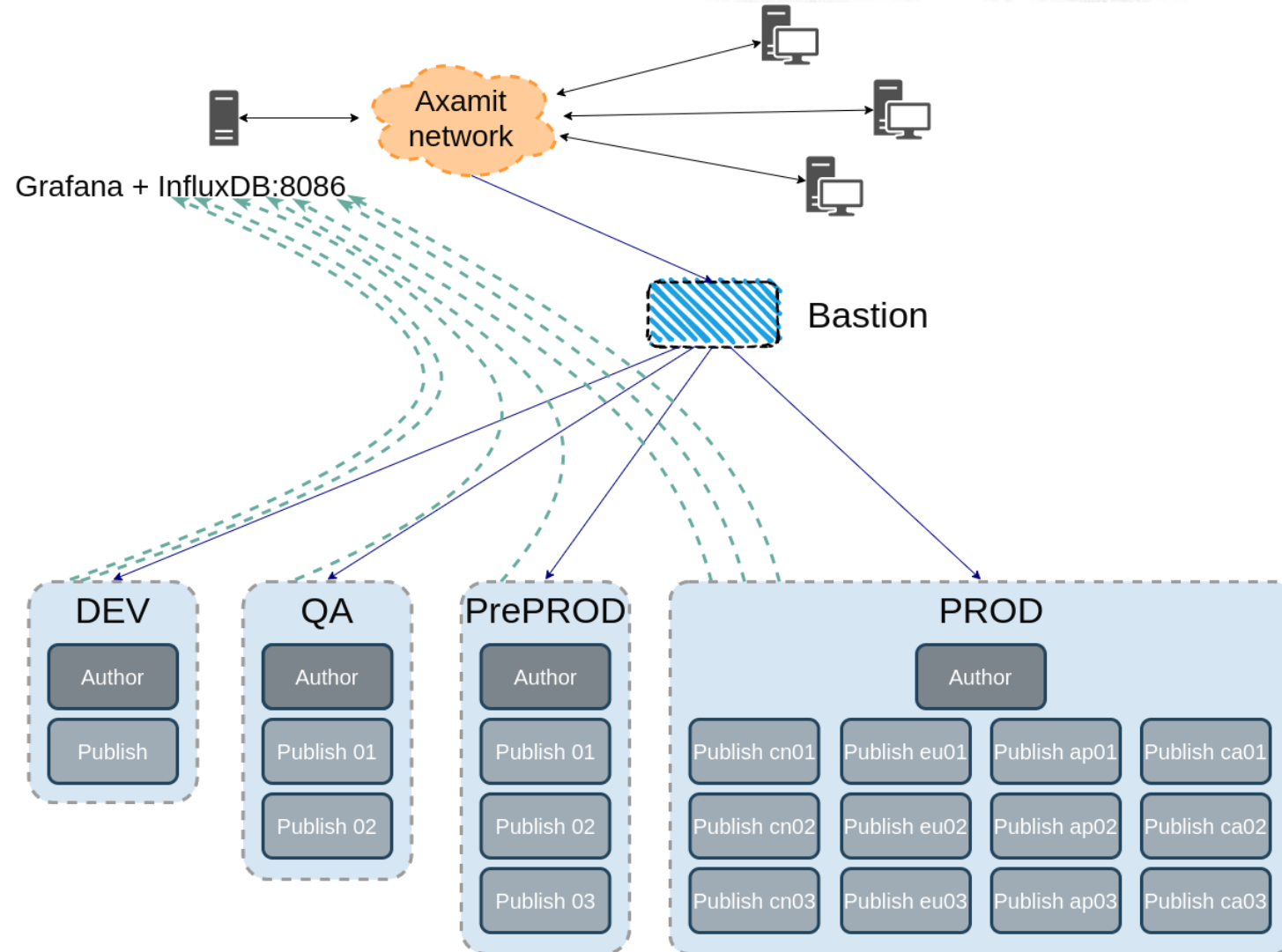
5.1 Monitoring / EFK



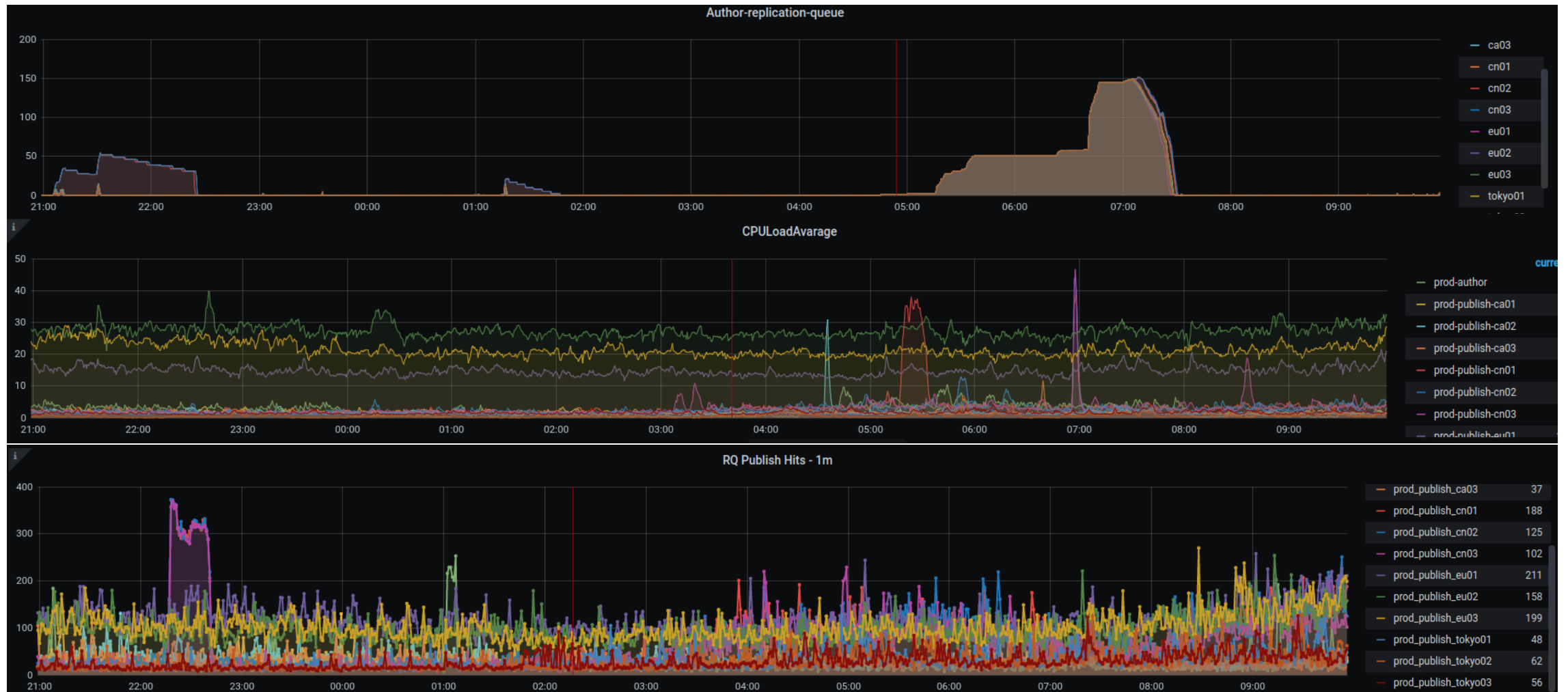
5.2 Metrics



5.3 JMX-agent / Request-log-analyzer



5.4 Monitoring / Grafana



6. Conclusions & Tasks for the future:

- Configured ssh routing.
 - Deployed complex system of monitoring
 - Ability to quickly connect to investigating accidents
 - Ansible allow parallel execute commands.
-
- Alerting system
 - Integration with Job RunDesk
 - Add error.log in EFK
 - Custom jmx beans.

Links



[Request-log-analyzer](#)



[JMXTransagent](#)



[EFK docker](#)



[fastthread.io](#)



@prikhodkosergey



[sergey_prihodko](#)



sergeyprihodko@icloud.com