



Sofia Meetup







Agenda

- 19:00 19:25 CNCF Introduction
- 19:25 20:25 Post KubeCon Copenhagen 2018
- 20:25 21:00 Networking





Kubernetes & CNCF Bulgaria Introduction





Welcome



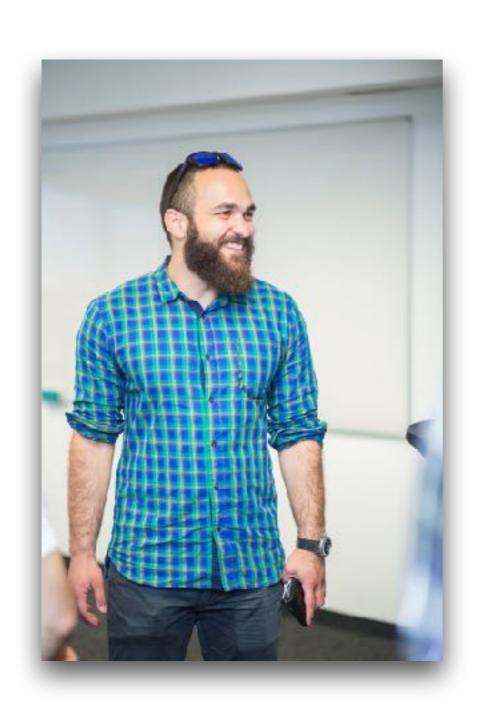


Introduction





Vladimir Dimov



- Kubernetes & Cloud Consultant
- 10+ years experience with infrastructure
- Road Warrior
- Motorcycle Enthusiast





The Crew





Orlin Vasilev

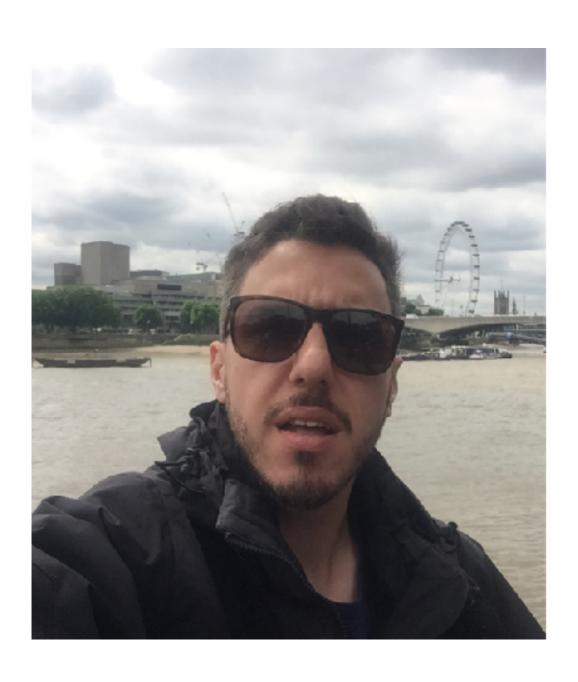


- Software Infrastructure Engineer at VMware
- Ex-private-cloud engineer/architect
- Father of one, soon +1





Spas Atanasov



- Part-time DevOps, Full-time daddy
- Ex-bare metal system administrator
- Technical Troll





The Story





Special Thanks

mware

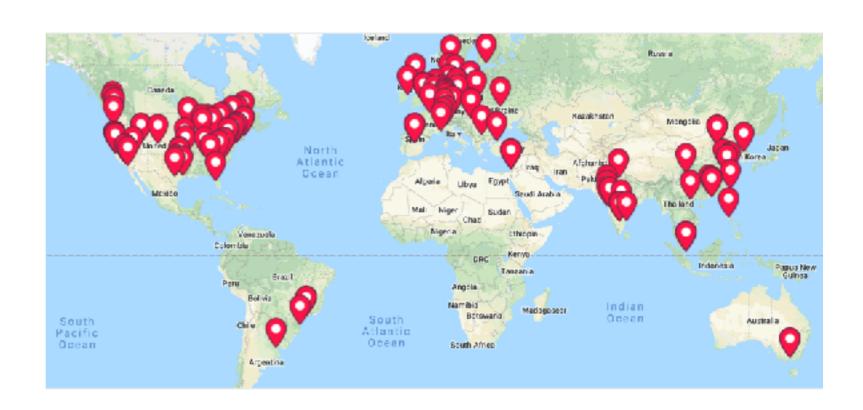
CNCF Platinium Member





CNCF Bulgaria is part of Cloud Native Computing Foundation Meetups

- 73,893 Members
- 148 Groups
- 32 Countries







Call for Speakers



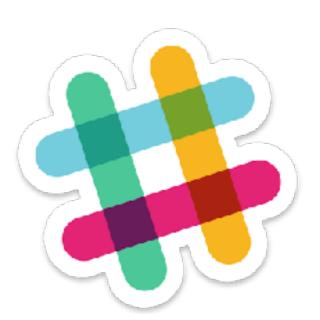




Stay in touch

- meetup.com (comments, discussions, messages)
- Slack channel #bulgaria : https://slack.cncf.io/

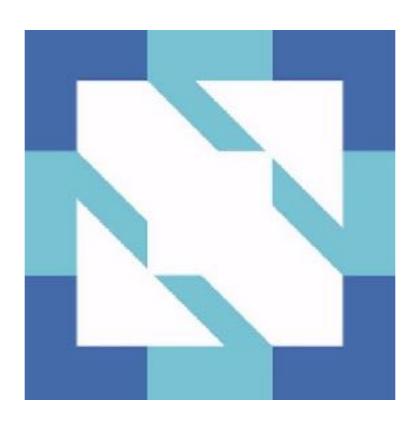








What is CNCF?







What is CNCF?

- Initially Home for Kubernetes
- Non-Profit Organisation
- Founded 2015
- Part of Linux Foundation
- Help Open Source projects drive
- Provide Certification
- https://landscape.cncf.io/

1. CONTAINERIZATION

- Commanly done with Docker containers
- Any size application and dependencies (even PDP-11. code running on an emulator) can be containerized
- Over time, you should aspire towards so itting suitable. applications and writing future functionality as microservices



3. ORCHESTRATION & APPLICATION DEFINITION

- Kubernetes is the market-leading orchestration solution
- You should select a Certified Kubernates Distribution. Hosted Platform, or Installer cool is/ok
- Helm Charts help you define, install, and upgrade even the most complex Kubernetes application







5. SERVICE MESH AND DISCOVERY

- · CoreUNS is a fast and flexible tool that is useful for pervice dispayery
- Envoy and Linkerd each enable service meeh architectures
- They offer health checking, routing, and load balancing













LINKERD CHCF Incideting CHCF incideting CNCF incideting

7. DISTRIBUTED DATABASE

When you need more resiliency and scalability than you can get from a single database, Vitess is a good option for running MySQ_ at socie through sharding.



envoy



9. CONTAINER RUNTIME

You can use alternative container runtimes. The most common, all of which are OCIcompliant, are containerd, rkt and CRI-O.







2. CI/CD

- Setup Continuous Integration/Continuous Delivery (CI/CO) so that changes to your source code automatically result in a new container being built, restect, and deployed to staging and eventually, perhaps, to production
- Setup automated rollouts, roll backs and testing

4. OBSERVABILITY & ANALYSIS

- Pick solutions for monitoring, logging and tracing
- . Consider CNCF projects Frometheus for monitoring Fluentd for logging and Jaeger for Tracing
- For tracing, look for an OpenTracing-compatible. implementation like Jaccer











6. NETWORKING

To enable more flexible networking, use a CNI-compliant network project. like Calico, Flannel, or Weave Net.





8. MESSAGING

When you need higher performance | than JSDN-FEST, consider using gRPC. NATS is publish/subscribe message-oriented middleware





10. SOFTWARE DISTRIBUTION

If you need to do secure software distribution. evaluate Notary, an implementation of The Update Framework.









So Cloud Native App/ Infrastructure/ Architecture



Projects

- Kubernetes
- Prometheus
- OpenTracing
- Fluentd
- gRPC
- Containerd
- rkt
- CNI
- Envoy

- Jaeger
- Notary
- TUF
- Vitess
- CoreDNS
- NATS
- Linkerd
- Helm



Our Next Meetup



Thanks for your time



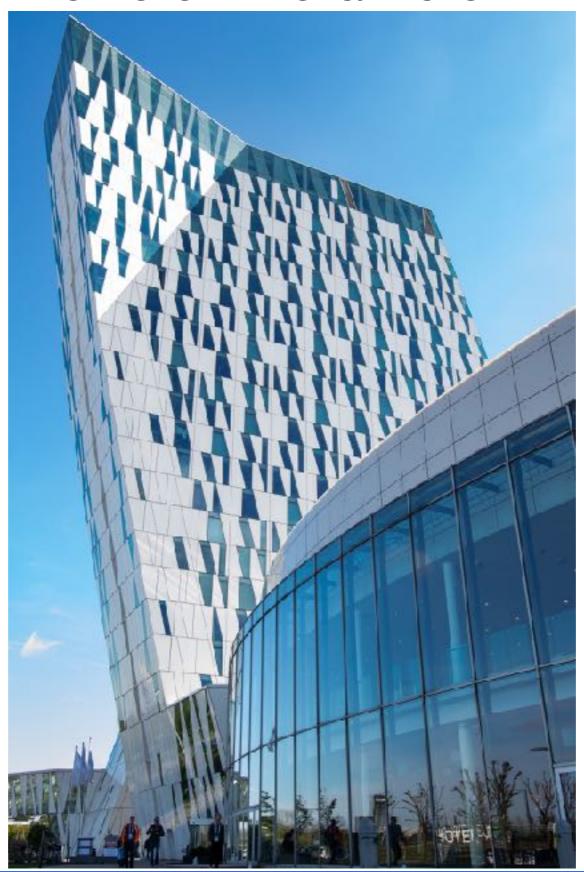


CNCF KubeCon 2018 Copenhagen





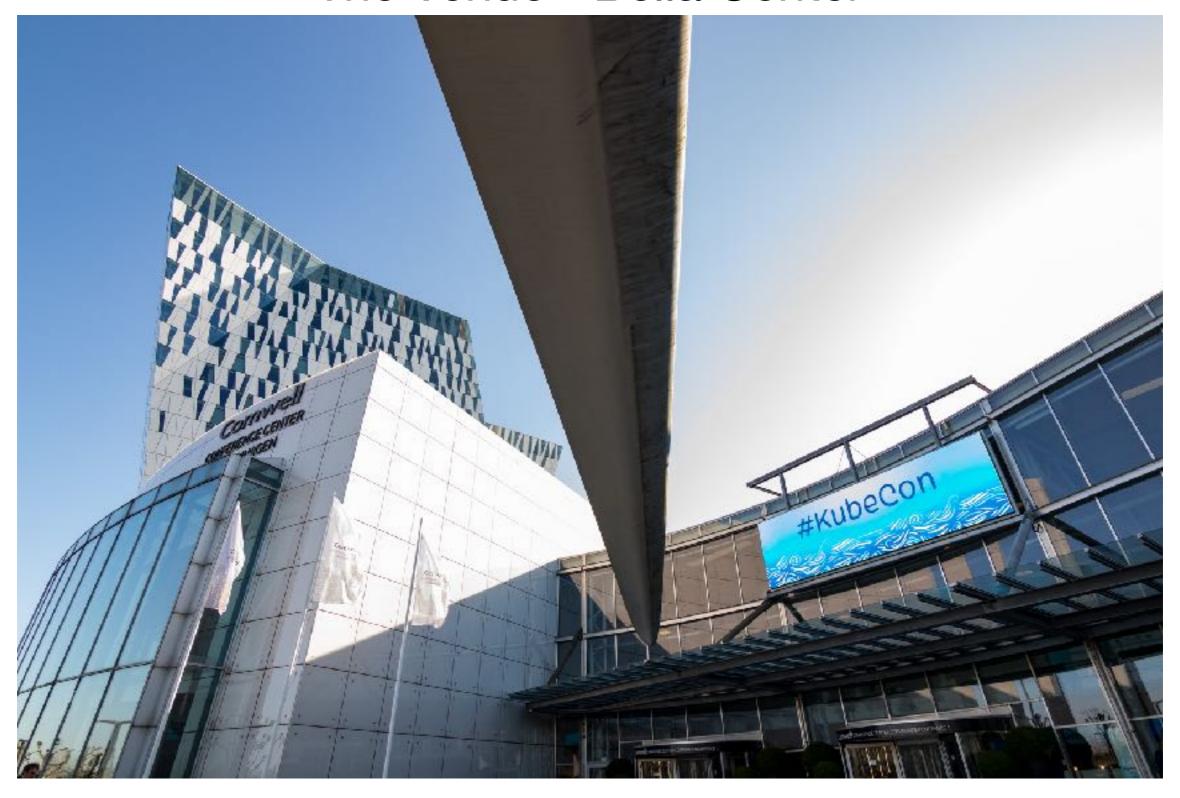
the hotel - Bella Hotel







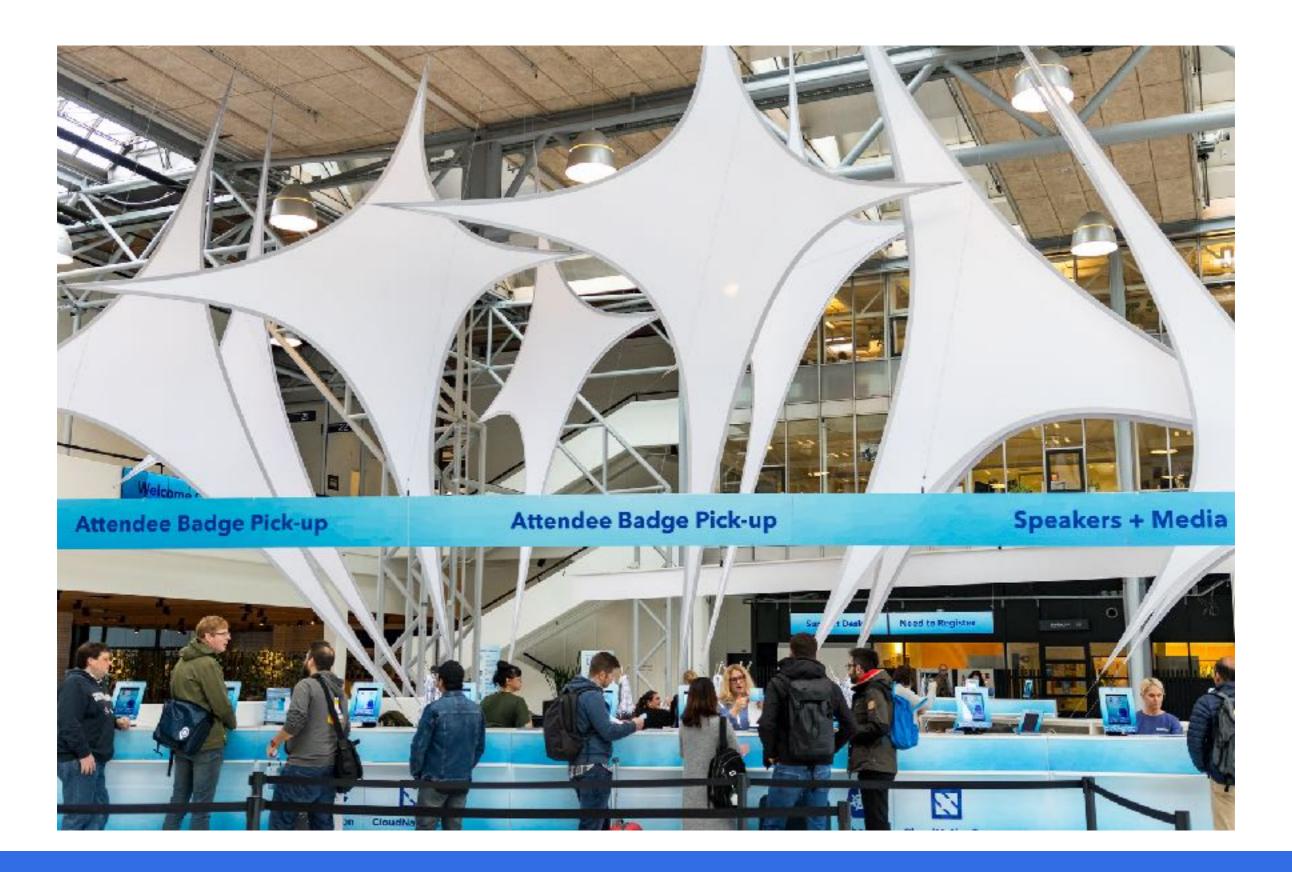
The Venue - Bella Center







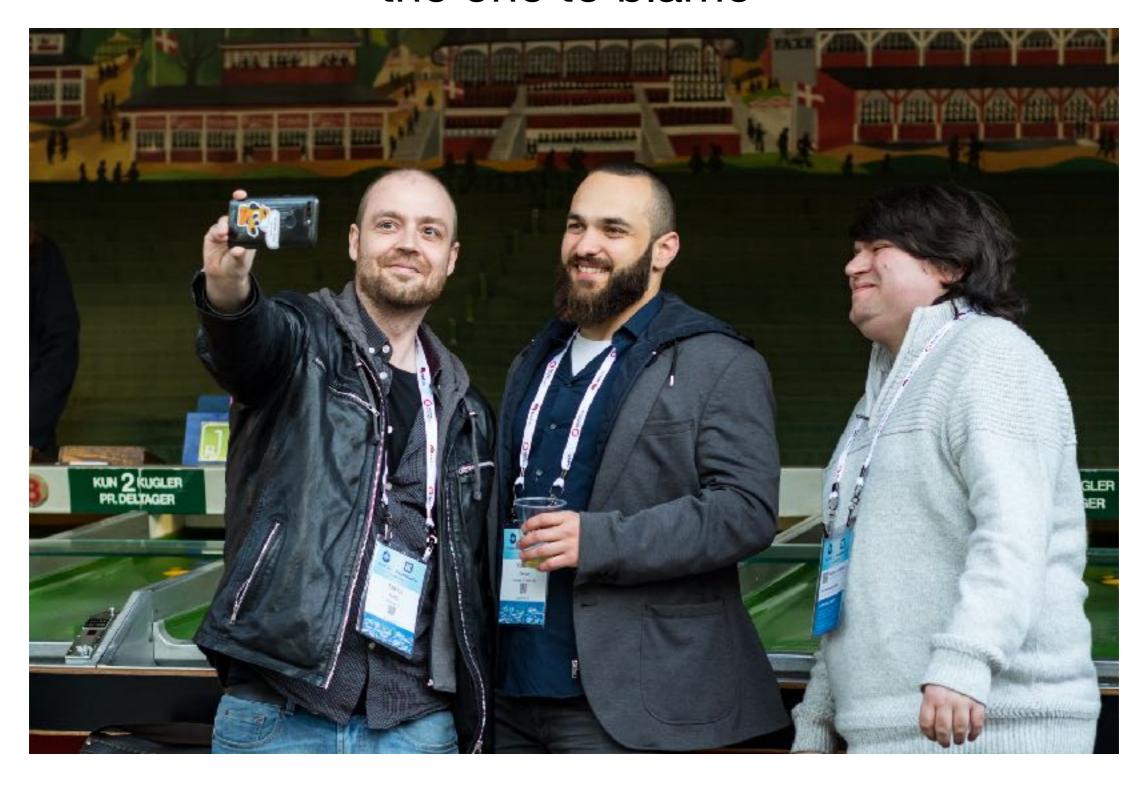
Welcome helmsmans'!







the one to blame







people behind KubeCon







almost empty







almost empty p2







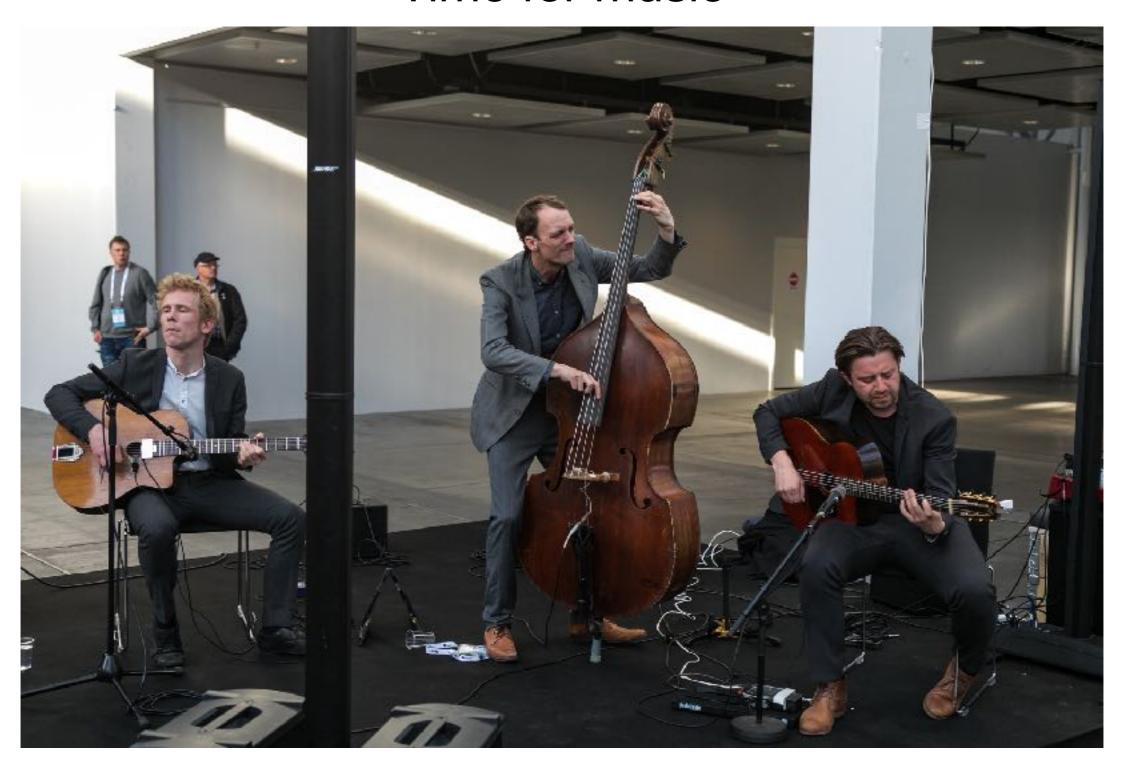
The best







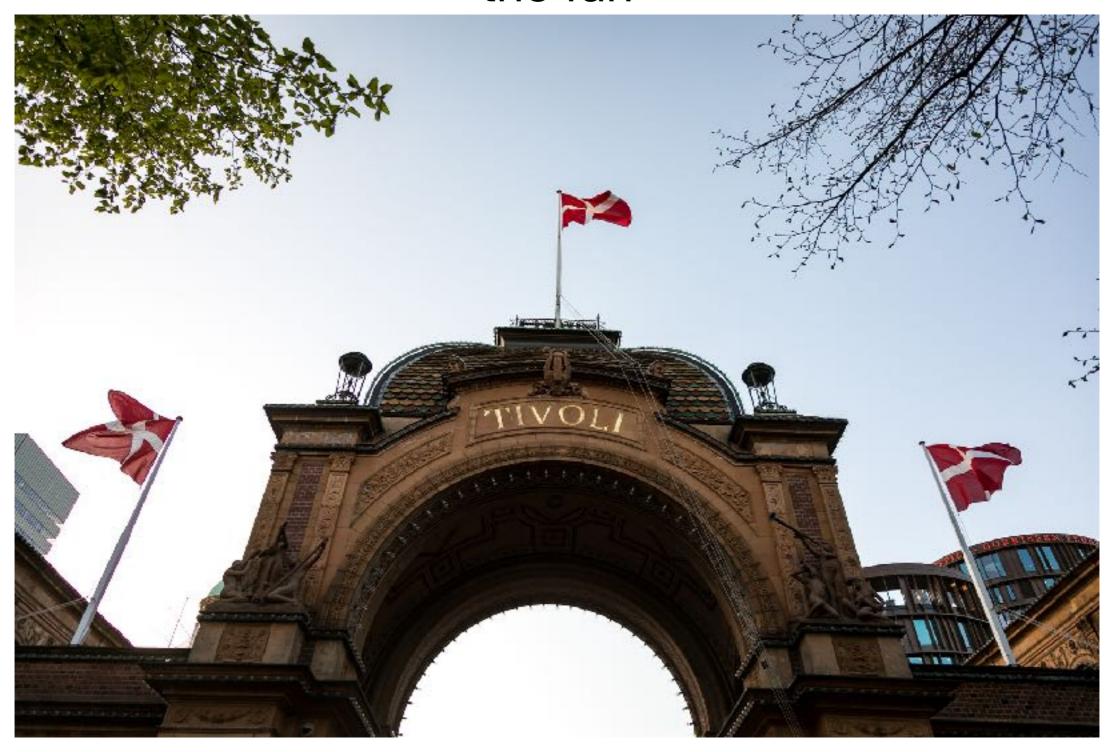
Time for music







the fun







the fun 2







the fun 3

