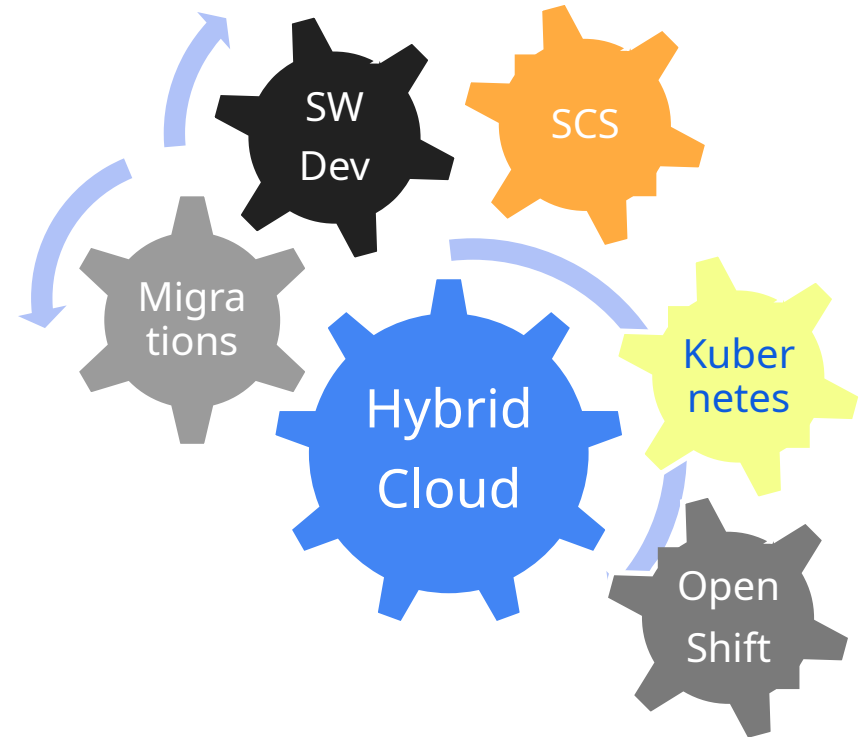




## Presentation for



# About Martin

1994 Started programming professionally

2001 BSc. Software Engineering

2002 MSc. Security of Information Technology

2003 Co-founder of dNation

2009 Software developer of Etihad Web Check-in



2010-now Software Architect, CEO





## Challenge

- T-mobile bought tele.ring and later 2 other operators
- How to offer T-Mobile's phone plans to tele.ring customers?

## Solution

- Add some of the tele.ring functionality to T-Mobile systems so customers get what they are used to
- Migration of tele.ring customers to T-mobile software systems
- Iterate: Continue with migration of following acquired operators, develop and maintain software



## Benefits

- tele.ring customers got wider option of phone plans and better signal coverage

# dNation: d = Development | DevOps

- d = Development: Custom SW Development
- We are software developers
- Java, Python, C++ and others



**kubernetes**



**OPENSIFT**

- d = DevOps: Cloud Services
- We are DevOps/Cloud engineers

# dNation is Red Hat Advanced Partner



**Advanced**

**Business Partner**

Solution provider

Container platform specialist



# Experience relevant to Red Hat OpenStack

- Active software developers of OpenStack
- Running all our production systems on OpenStack
- This presentation is served from  
Nextcloud running on OpenStack installed on bare metal
- Being software developers gives us the ability to solve  
almost any problem encountered during an upgrade



# References

## Telecom Industry

..T..Mobile..



## Pharmacy Industry



**ThermoFisher**  
SCIENTIFIC

## Bank Industry

Cognizant



Nordea



## Ticket Sale Industry

fiserv.

amadeus



MICRON



# General Questions

- 1) Is there a diagram showing current high level architecture, including NFVs, what services they provide and what are their consumers?
- 2) "400 compute/control nodes, 10 VNFs, and 350 VMs." - It sounds like there are 400 physical servers running 350 VMs? That doesn't sound right, number of VMs is usually much higher than number of physical servers.
- 3) "Explain network changes after removing Contrail along with considering" - I am assuming current solution is running **Contrail Networking from Juniper**, providing BGPaaS and that is going to be replaced by something else. Is that correct?
- 4) "The RFP has multiple portions, including hardware refresh and building a container platform" - this is also our specialization, can we apply for that as well?



# Reh Hat OpenStack Specific Questions

- 1) Does upgraded Red Hat OpenStack Platform (RHOSP) instance run mission critical applications?
- 2) Is downtime allowed? If so, for how long?
- 3) What version is currently used for: RHOSP (16.2.\*), Red Hat Enterprise Linux (RHEL, probably 8.4), Red Hat Ceph Storage (probably 5)
- 4) Does upgrade also include: RHEL (8.4 can be preserved or replaced by 9.2), Ceph Storage (5 can be preserved or replaced by 6, 7)
- 5) Is Open Virtual Network (OVN) or Open vSwitch (OVS) currently used?
- 6) Is internal or external Red Hat Ceph Storage currently used?
- 7) Are currently (at least) 3 controller nodes used?
- 8) Is Red Hat Satellite Server (hosting RPMs and images) currently used?

# Thank you for your attention



Questions? Comments?

Do not hesitate to contact me!

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