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|  | **Kristian Nygaard Jensen** **Senior DevOps Consultant** | |
| **AWS certified Senior DevOps consultant with 15+ years of experience with a background as developer, tech-lead and DevOps engineer. The consultant has extensive experience in building robust, scalable solutions using containerization and various cloud technologies and scripting languages, through testing, monitoring and automatic response. The consultant has experience with frontend testing, backend and infrastructure code. as well as securing a site via network isolation, identity-based authorization and encryption in transit and at rest.**  **The consultant has worked with Kubernetes On-Prem(OpenShift, Ansible and Rancher, Terraform) and on AWS(EKS).**  **The consultant has many years of practices with Agile and Scrum methods like test driven development (TDD), behviour driven development (BDD), Infrastructure as code (IaC), Kanban, SAFe and has held a wide variety of roles which has given a deep insight into different perspectives of IT.**  **Key competences:**  **- On-prem cloud**  **- CI/CD in JenkinsCI an GoCD**  **- Infrastructure as code (IaC) in Ansible and Terraform**  Highlighted Work Experience  **SRE**  COOP | 2021  The project focus is migrating to Rancher 2.5.  The consultant had the responsibility of:  Implementing logging infrastructure, specifically:  Forwarding data from fluentd to elasticsearch indexes and define ILM policies for these indexes. | | ****Tools****   * Rancher 2.5 * Amazon EKS * Ansible (Playbooks) * OpenShift * Terraform * Terratest * SonarQube * Terragrunt * Elasticsearch / Kibana * Splunk * Apache Mesos * Apache Cassandra * draw.io * fluentd * Kubernetes * Linux * kubectl * CI/CD   **Methods & Processes**   * Negotiating |

Work Experience

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| Mar 2021 - Jul 2021 Albertslund | **SRE** COOP The project focus is migrating to Rancher 2.5.  The consultant had the responsibility of:  Implementing logging infrastructure, specifically:  Forwarding data from fluentd to elasticsearch indexes and define ILM policies for these indexes.  *cerebro, Elasticsearch / Kibana, ElasticSearch 7.x, fluentd, Rancher 2.5, Terraform (Hashicorp)* |
| Jan 2020 - Sep 2020 | **DevOps engineer/Chief Consultant** Udviklings- og Forenklingsstyrelsen The project migrated shared services including CD/CD pipelines from AWS EC2 to Kubernetes (EKS). As part of the project we we often made use of the pair programming method with both driver and observer being remote. A requirement was to keep downtime to a minimum, when performing the switch. The consultant was responsible for:  - Implemented Terraform module for deploying Jenkins via helm provider using official Jenkins helm chart. Injected ActiveDirectory aws secrets, keystore k8s secrets.  - Implemented Terraform module for deploying SonarQube via Helm provider using official helm chart. Implemented backup and restore of SonarQube database in PostgreSQL.  - Migrated jenkins\-job\-builder(OpenStack) from EC2 based Jenkins to containerized Jenkins on EKS.  - Used kubectl to troubleshoot via logs and examining the running images  - Implemented test services co-existing with existing services durring migration, resembling a canary deployment.  - The consultant was part of the DevOps team who had the responsibility of maintaining the shared services as well as the Kubernetes cluster.  *Amazon EKS, AWS EKS Cloud Native solution, gnu screen, Helm, Jenkins CI, Kubernetes, Pair programming, Remote deployment, SonarQube, Terraform (Hashicorp), Tmux* |
| Nov 2019 - Dec 2019 | **DevOps engineer/Chief Consultant** Udviklings- og Forenklingsstyrelsen Backup restore cassandra(datastax)  The official datastax backup/restore tool resulted in the stables being restored in the wrong order from backup. The consultant was responsible for:  - implementing Backup/Restore in Bash for Cassandra, which got called from Datastax enterprise ensuring correct order in restore of binary snapshots  *Cassandra, Datastax* |
| Aug 2019 - Oct 2019 Frederiksberg | **DevOps engineer/Chief Consultant** Udviklings- og Forenklingsstyrelsen As part of the Architect-form the consultant became aware of a common pattern being implemented across the organization for ingesting documents of varies kinds(JSON,PDF etc.), but in different silos and in unique ways. This would lead to 5 individual DevOps engineers having their own feature to implement. The solution was to implement a common document-queue which could be used instead, and thereby freeing up resources.  We implemented a micro-service-architecture where incoming documents was processed by workers lambda, ECS or EC2.  The consultant was responsible for:  - Designed a common document-queue architecture which would unify the queue pattern.  - Implemented the deployment IaC Terraform module for document-queue.  - Implemented test cases in Terratest  *draw.io, Terraform, Terratest* |
| Jan 2019 - Oct 2019 Frederiksberg | **DevOps engineer/Chief Consultant** Udviklings- og Forenklingsstyrelsen The purpose off the project was to replace the existing platform with a more, coherent and common way of deploying the infrastructure.  The terraform/terragrunt code base suffered from a lot of copy/pasting \- synthesizing variables by hand ensuring consistency between modules.  The code was refactored to be stack-based and used input/out variables to ensure consistency, this was achieved by calling Terraform stacks from TerraGrunt as opposed to previously where TerraGrunt was calling individual Resource-modules.  The consultant was responsible for:  - Defining the new architecture  - Implemented tagging, naming and context modules  *Terraform, Terragrunt* |
| Oct 2018 - Dec 2018 | **DevOps engineer/Chief Consultant** Udviklings- og Forenklingsstyrelsen Unify Jenkins pipelines. Two Jenkins servers was chained together where one would call the other. They need to be merged.  The consultant was responsible for:  - Merging the two servers, by migrating jenkins-job-builder(From OpenStack) jobs  - Merging 20 pipelines into one parallelized pipeline, this cut the build time of the entire system down to a third.  *CI/CD, Groovy, Jenkins CI* |
| Jul 2018 - Sep 2018 Frederiksberg | **DevOps engineer/Chief Consultant** Udviklings- og Forenklingsstyrelsen Dockerize GIS solution. The consultant was responsible for:  - Create Dockerfile for GeoServer and configure it to use remote DB server (AWS RDS, PostgreSQL)  - Create Dockerfile for GIS application frontent  - Create Docker file for GIS application backend  - Create Jenkins CI/CD pipelines  - Setup git repo  *CI/CD, Docker, GeoServer, Git, GitHub, RDS, Scrum, TypeScript* |
| Apr 2017 - Jun 2018 Frederiksberg | **DevOps engineer/Chief Consultant** Udviklings- og Forenklingsstyrelsen Migrate services to AWS from On-Prem mesos/Marathon, the application teams converted the application logic. As part of the DevOps team the consultant was responsible for:  - Implementing IaC terraform modules  *Apache Cassandra, Atlassian Confluence, AWS RDS, AWS VPC, Bash, Centos 7, Cloud Technology (AWS), Docker, Docker Registry, Git, GitHub, Jenkins CI, JFrog Artifactory, Public Sector, S3, Scaled Agile Framework (SAFe), Terraform (Hashicorp), Terratest, Ubuntu 18.04* |
| Jan 2017 - Mar 2017 København | **DevOps engineer/Chief Consultant** Ministry of Taxation The project consisted of building a UI for the case-worker sub-system of new Danish property evaluation system  The project was implemented as a SPA using ClojureScript and Reagent, which was transpiled to js using react as component library.  The consultant was responsible for implementing:  - visualizing dynamic property variables in the UI  - CICD pipelines in Jenkins  - Unit tests.  *ClojureScript, lambda, Reagent* |
| Oct 2016 - Dec 2016 København | **DevOps engineer/Chief Consultant** Ministry of Taxation On-Prem Kubernetes solution  - Deployed OpenShift via Ansible on KVM  *Ansible (Playbooks), Graphana, Kubernetes, OpenShift, Prometheus* |
| Aug 2015 - Dec 2016 København | **DevOps engineer/Chief Consultant** SKM \* injected self-signed certificates into nodes, using Ansible, to enable the instances to fetch dependencies via a proxy(blue coat).  \* created CI/CD pipelines in Jenkins/GoCD  \* worked with geospatial on Datastax Enterprise  *Cassandra, Datastax, GoCD, Groovy, Jenkins CI, Solr* |
| Aug 2015 - Sep 2016 København | **DevOps engineer/Chief Consultant** Ministry of Taxation Migrate from an IaaS/Docker solution to a On-Prem cloud solution.  \* configured mesos master and agents on ubuntu nodes(VMware and KVM)  \* configured Marathon masters, zookeeper, marathon-lb(haproxy) dynamic routing  \* configured tag based environment creation  *Ansible (Playbooks), Apache, Apache Mesos, Cassandra, Datastax, Docker, Docker Registry, Dockerhub, Geospatial, GoCD, Jenkins CI, jitterbit, KVM, Linux, Marathon, nginx, on-premise (cloud), Solr, Splunk, VMware, Zookeeper* |
| Jun 2015 - Aug 2015 | **Developer, agile team member** TDC group \* implemented WSDL -> Java ->clojure tool, Integration to sales system via SOAP  *Apache CXF, Clojure language, Java 8, Scrum* |
| Aug 2014 - Aug 2015 København | **developer, agile team member** Yousee \* Contributed to middleware software for selling TV channel subscriptions written in Clojure  *Behavior Driven Development (BDD), Clojure language, Cucumber/Gherkin, Java development, JVM, nginx, Scrum, WSDL* |
| Aug 2014 - Dec 2014 København | **DevOps engineer** TV2 Deployment of messaging system implemented with redis and nodejs onto production servers.  *JavaScript, NodeJS, Redis* |
| Jan 2012 - Dec 2014 København | **Web developer** TV2 Implement news portal in drupal, The consultant had the responsibility of:  \* Integrated with teletext  \* made the breaking bar  \* coordinated with Ops on deployment  *Atlassian Jira, Git, Git-Flow, lambda, Release Management, teletext* |
| Jan 2008 - Nov 2012 | **Web-developer** MOC Systems  portals implemented on TYPO3  *PHP-programmering, Typo3 CMS* |
| Jan 2007 - Dec 2009 | **Web developer** TopDanmark Develop middle-ware component connecting Insurance information system and CMS through IBM RACF.  *Insurance industri, MVC design pattern, RACF, Typo3 CMS* |
| Aug 2006 - Dec 2006 København | **Web developer** WebmindIT Developed a call-center solution for newspaper subscriptions (avissalg.dk).  Mozilla XULRunner frontend(desktop app) connected to TAPICOM/Avaya PBX Office phoner via plugin written in c#(mono) and a product/lead catalog PHP/MySQL(symfony).  *Avaya PBX, CSS, MonoDevelop, PHP-programmering, Symfony, TDD - Test driven development* |
| Mar 2003 - Dec 2006 København | **Owner/Developer** Aider I/S Sites in PHP  *cashcow, CSS, Kortbetalning via DIBS, PHP-programmering, SAMBA, webEdition CMS* |
| Jan 2006 - Aug 2006 København | **Offshore project manager,Systems Engineer** WebmindIT Coordinated with a offshore team in India from Siddhatech on developing www.sunddialog.com  *Offshore Management* |
| Jan 2005 - Dec 2005 Brøndby | **Developer** AK Techotel A/S Delphi 2006 / MSSQL statistical modul for Picasso hotel CRM system.  Integration to Eniro.  SOAP interface til hospital patient hotel.  *Delphi, Pascal, SOAP, WSDL* |
| Jan 2004 - Dec 2004 | **Developer** CBB mobil Worked on:  Multi browser kompatibilitet, CSS, Javascript  Consumption overview, JAVA, javascript, css  Shopping basket concept koncept, J2EE/struts  Roaming blocking, J2EE/struts  Issue tracking (CRM / internt problemstyringssystem), ASP  Intranet, PHP4 (typo3)  *Apache Struts, ASP Classic, CSS, Gentoo Linux, J2EE, JavaScript, Jetty, JSP, Telephony, Toad, Typo3 CMS* |
| Dec 2001 - Dec 2001 København | **Student job** Ambition Site traffic analysis  How long did it take from entry to sale  1X1 transparent gif  Logfile analysis  *Business 2 Business, SQL Plus* |

Courses and Certifications

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| **AWS Certified Solutions Architect - Associate** Amazon Web Services Training and Certification | 2021 |

**Education**

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| **Computer science (Bachelor's degree)** Roskilde University | 2002 - 2008 |
| **Computer science (AP)** Niels Brock | 2000 - 2002 |

**Skills**

Level 5 - Expert  
*Ansible (Playbooks), CI/CD, Git, GoCD, Infrastructure as Code, Jenkins CI, lambda, MVC design pattern, Refaktorisering, Symfony, TDD - Test driven development, Terraform, Terraform (Hashicorp)*

Level 4 - Advanced  
*Apache, Apache Mesos, AWS RDS, AWS VPC, cashcow, Cassandra, Cloud Technology (AWS), CSS, Delphi, Docker, Docker Registry, fluentd, Git-Flow, Groovy, Groovy, JavaScript, Jetty, kubectl, Kubernetes, Linux, Marathon, Negotiating, on-premise (cloud), PHP-programmering, Rancher 2.5, Release Management, S3, Scrum, teletext, Terragrunt, Ubuntu 18.04, webEdition CMS, WSDL, Zookeeper*

Level 3 - High Competence  
*Amazon EKS, Apache Cassandra, Apache CXF, ASP Classic, Atlassian Jira, Avaya PBX, Behavior Driven Development (BDD), Centos 7, Clojure language, ClojureScript, Cloud solutions, Cucumber/Gherkin, Datastax, Dockerhub, Elasticsearch / Kibana, ElasticSearch 7.x, Gentoo Linux, GeoServer, Geospatial, GitHub, Graphana, Helm, J2EE, Java 8, Java development, Javascript (ESS/ES6), JFrog Artifactory, JSP, JVM, KVM, LISP-programmering, MonoDevelop, nginx, NodeJS, Offshore Management, OpenShift, Python, RDS, Reagent, Redis, Remote deployment, SAMBA, Scaled Agile Framework (SAFe), SOAP, Solr, SonarQube, Splunk, Terratest, Toad, Training and Coaching, TypeScript, Typo3 CMS*

Level 2 - Intermediate  
*Apache Struts, Atlassian Confluence, Business 2 Business, C# programmering, Data fitting, draw.io, Guile, IPFS, jitterbit, Kortbetalning via DIBS, Pascal, Prometheus, RACF, Racket, SQL Plus, Titan, VMware*

Languages

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| Danish | Native or bilingual proficiency |
| English | Professional working proficiency |
| German | Elementary proficiency |