title: Jan-Arve Nygård

Cloud Engineer and Architect

Email | LinkedIn | GitHub

Key Qualifications

Cloud Enginer who has experience with delivery and operation of IT platforms and services since 2000. I have experience both as a project participant in deliveries and as an operational manager for customer solutions in production. In the recent years, work on cloud services, both public and private, as well as containers and DevOps has been the primary focus areas.

I have experience with DevOps as a culture and working method from internal and external assignments and knowledge of CI/CD and the most common tools and technologies associated with this.

I want to highlight "AWS Certified DevOps Engineer - Professional", "AWS Certified Solutions Architect - Associate", "AWS Certified SysOps Administrator - Associate" and «Azure Fundamentals».

I believe I have a good and comprehensive technological understanding, and can quickly familiarize myself with different challenges and find possible solutions to these.

Location

Hamar, Norway

Interests

Motorcycles, Golf, Music, Concerts, Technology, Movies, Travelling.

Core Competency

Cloud
Linux
Containers
AWS

Certifications

Open Group TOGAF® 9 Certification
AWS Certified DevOps Engineer – Professional
AWS Certified SysOps Administrator – Associate
AWS Certified Solutions Architect – Associate - To be renewed
Microsoft Certified: Azure Fundamentals
Google Cloud Certified - Associate Cloud Engineer
Red Hat Certified Engineer (RHCE)

Assignments

Norsk Tipping, AWS, Cloud Architect 2022 to Current

- Project to design and establish a landing zone in AWS after the principles in the Well-Architected Framework.
- Design av develop a baseline for governance and compliance with use of services like Control Tower, CloudTrail and GuardDuty.
- Automation of the landing zone with Terraform, GitHub Actions and Terraform Cloud. Account vending with a GitOps workflow by using Account Factory for Terraform as the pipeline for creation and customization of new AWS accounts.
- Prosjekt for å designe og etablere av en landingssone i AWS etter Well-Architected

Framework. Designe og etablere en baseline for governance og compliance ved bruk av tjenester som Control Tower, CloudTrail og GuardDuty. Automatisering av oppsettet med Terraform, Github Actions og Terraform Cloud. For "account vending" så benyttes Account Factory for Terraform for opprettelse og tilpasning av nye AWS-kontoer basert på en GitOps workflow.

International Bank, AWS, Cloud Architect 2021 to 2022

Responsible for design and deployment of infrastructure for TietoEVRYs solution for virtual account management in AWS. Assist with CI/CD-tools and onboard new resources with getting started with infrastructure as code and Terraform.

Studentsamskipnaden SiO, Azure, Cloud Engineer 2020-2021

Migrate applications, services and servers from existing vendor to Azure. Advising tech lead in architecture and design.

TietoEVRY, Azure, Cloud Engineer 2019-2020

Project for the development of a new cloud-based delivery model for our customers together with Microsoft. The first part of the project had about 50 members from both TietoEVRY and Microsoft, spread over 11 different tech tracks, with a duration of about 3 months. The purpose of this project was to establish a common sales and migration methodology, as well as operating model and landing zone based on best practices for our deliveries from Azure.

Developed standards and specifications for tagging resources. Define and establish automatic patching of virtual machines based on tags. Define and establish default backup schedules and governance of these via Azure Policies. The Azure Foundation is part of the Managed Cloud Functionality squad, which is responsible for the management and continuous improvement of the service provided to our customers at Azure.

Member of Squad that works as product owner of the Azure Foundation. This squad is responsible for the management and continuous improvement of the service provided to our customers on Azure.

Vendu AS, AWS, Cloud Engineer 2020-2020

Vendu exists to make trading and handling housing easier and safer. Started as a research project in 2016. Using machine learning and large amounts of proprietary data, we are developing the world's first residential intelligence. Today, we collaborate with the public sector, banking, insurance, real estate, building materials and Norsk Takst to design the digital services of the future for private households. The project involved assisting the customer in migrating the Housing Analysis solution from the on-premise solution to Amazon Web Services.

Infrastructure design in AWS for Vendu's Housing Analysis Solution. Solutions are based on Elastic Beanstalk and ElastiCache where CI/CD with CodeBuild and CodeDeploy is used for automatic build and deploy. Other services and functions used in the solution are VPC peering against MongoDB Atlas in AWS for database, Route53 for authoritative DNS, certificates in Certification Manager and CloudWatch for monitoring.

Responsibility for establishing infrastructure in

AWS for Vendu's Housing Analysis Solution. Technical executor responsible for coordinating TietoEVRY's resources. Solutions are based on Elastic Beanstalk and ElastiCache where CI / CD with CodeBuild and CodeDeploy is used for automatic build and deploy. Other services and functions used in the solution are VPC peering against MongoDB Atlas in AWS for database, Route53 for authoritative DNS, certificates in Certification Manager and CloudWatch for monitoring.

Frivillighet Norge, GCP, Cloud Engineer 2020-2020

Frivillig.no is a bulletin board for voluntary assignments. Frivillig.no makes it easier for voluntary organizations to find people and easier for people to find voluntary assignments. Volunteering Norway is behind the website Frivillig.no which was launched in December 2015. The website connects organizations and teams with new volunteers. Voluntary organizations, volunteer centers, congregations and cultural festivals can post voluntary assignments and people can find something they want to contribute to. The old solution was made with AngularJs, a very old framework. To make the solution more robust, Frivillighet Norge decided to rebuild the site with newer technologies such as ReactJs, NodeJs, Redux, etc. The solution runs in Google Cloud Platform.

Assisted the development project in establishing a new solution in already existing infrastructure in the Google Cloud Platform. Implement CI/CD pipelines in CircleCI so that developers can automatically deploy to test and production. Assisted during migration and production of a new solution and finally mapping and cleaning up the old environment from a previous supplier.

Digitaliseringsdirektoratet, Azure, Cloud Engineer 2019-2020

Delivery of an operating platform using Docker Enterprise Edition (EE) and Kubernetes. The infrastructure that supports this software is provided using Microsoft's cloud platform Azure. The use of Microsoft Azure will in the long term give the Customer the opportunity to move applications into the container platform at a faster rate than is normally achieved in a traditional IT platform. Docker EE and Kubernetes are the container platform used. Docker EE is used to orchestrate Kubernetes (leading container platform, open source), and provides additional functionality in the form of: • Built-in Docker library for storing application packages (images) • Web-hook integration for automatic application package delivery (CI-CD) • Universal access control across projects in the same organization • Access to use Docker Swarm at a later junction • Centralized management and maintenance of underlying virtual infrastructure All infrastructure (storage, servers, networks, protection) is established in Azure in Microsoft's data center located in the Netherlands with a short distance and minimal delay to Norway. The infrastructure is established over several accessibility zones to meet the requirements for accessibility in the

solution.

- Delivery of an operating platform using Docker Enterprise Edition (EE) and Kubernetes. The infrastructure that supports this software is provided using Microsoft's cloud platform Azure.
- Responsible for solution being documented and delivered in accordance with architecture and design.

Digipost, Private Cloud, Cloud Engineer and TAM 2015-2018

- Digipost is a digital mail system developed by Posten Norge. Through Digipost, all persons over the age of 15 with a Norwegian national identity number or D-number can get their own "digital mailbox", corresponding to the physical mailbox, which can be used for secure digital communication between private individuals and private and public companies. As of 2016, Digipost has over 1.3 million registered users of the solution. The delivery an IaaS Private Cloud solution built on Citrix XenServer and Apache CloudStack that enables Digipost to automatically manage its entire infrastructure via APIs.
- Architect and project participant in the establishment of the platform and was until 2018 operationally responsible for the customer for the daily operation of the platform. __

Employment

Cloud Engineer, Norsk Tipping 2021-Current

TietoEVRY, Chief Consultant 2000-2021