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Päärni, [*Risto Anton*](#)

Espoo, Finland



Summary

Risto Anton Päärni, [M.Sc./B.Sc.](#) is passionate about helping customers and focusing on his consulting client assignments. He is the founder and owner of Lifetime Group.

He is architecting, managing, leading the project planning along with his virtual teams which is continuously building the DWS SaaS Platform MVP. The DWS MVP Development environment is based on Microsoft 365, Microsoft Dev Boxes that have customized environment with tools of Microsoft 365, Azure Open AI, Camunda Process Automation, Microsoft Power Apps 365, Microsoft Dynamics for Sales, Microsoft Visual Studio Enterprise, Lifetime Studios GitHub Enterprise, and it is running on its security and IAM, storage compute services on Microsoft Azure, Event Bridge and services on Amazon Web Services and data lake on Google Cloud.

DWS project is fundraising. DWS project focuses on improving the smart industrial technologies (lifetimestudios.eu for development, dws10.com for SaaS, lifetime.fi for sales, lifetimeconsulting.eu for consulting) that optimize ESG and GCR to prevent climate change using edge computing near AI data, near distributed energy, and builds on containerized near security. Lifetime Group's project DWS has a current valuation is ca. 6,25 million euros (12/22).

As a Professional Management Consultant, Risto Anton has two specialty hats to engage in your team.

His skills as an agile Project Manager extensive project history, successful project planning, executing, program management, project portfolio on Microsoft 365, Microsoft PowerApps Pro, Microsoft Dynamics, Open AI.

His skills as a Developer and Cloud Architect helps clients in their projects in defining project roadmap, technical stack, project scope and phases on Google Cloud, AWS, IBM Cloud.

Risto Anton has extensive experience in cloud technologies and its solutions, both for back office and front application. As a Cloud knowing developer, he can help your projects in the planning and delivering DevOps with clean code activities of the project.

Risto Anton has extensive experience in many industries including oil, gas and plastic, government, cloud SaaS IT, media industry, and working with various manufacturing companies.

Risto Anton's research interests are reducing e-waste through the cloud, creating a hydrogen economy on the edge and on the cloud with digital twins. ** The research for version 5: DWS SaaS integrates DWS Metaverse Platform with NVIDIA Omniverse Manufacturing companies.

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DWS web3 dApp optimizes data and energy analyzing data with AI on the edge with SOC solution. uses edge computing containerized solution with an IOT Hub, and on the backend data pipelines based on services on Amazon Web Services, Microsoft Azure, and Google Cloud hybrid cloud architecture.

For Machine Learning and business intelligence reporting dws uses Amazon Sage Maker and AWS QuickSight to build, train, and deploy machine learning (ML) models DWS customer's use cases with Sage Maker's managed infrastructure, tools, and workflows. Open AI is built in DWS SaaS as a knowledge on demand engine. **

As CEO of Lifetime Group, he is responsible for the solution sales, signing client assignments and delivering winning cloud ready teams with a consultative sales approach to our clients. The Business development now focuses on digital development initiatives in smart factories, manufacturing, robotics, cloud.

Risto Anton can help you to build partner-based co-creation projects with the help of his extensive network of over 20,000+ international contacts on LinkedIn, Twitter, Instagram. He can help you ideate, spark, and build new products and services. His work with major media brands on Facebook and Social 2009 onwards can help you build your brand management, Lifetime Group has 1,500+ followers on LinkedIn, Twitter, Facebook, Instagram.

As a Team leader Risto Anton believes in distributed specialization bringing proficiency. His soft skills with extensive work life experience makes it easy for him leading the teams and managing client projects and seeing over the operations of assignment. As CEO he takes part in hiring, marketing, management accounting, and nurturing client and partner relationships at the Lifetime Certified Partners Consortium3 - the leading virtual software partners program in the World.

Education

- [Industrial Intelligent solutions](#) in Metropolia University of Applied Sciences, ylempi ammattikorkeakoulututkinto, Software Engineer (MSc), 2024.
- Technology Entrepreneurship, [Industrial Engineering and Management](#) in Lappeenranta University of Technology DI (MSc), 2007.
- [Bachelor of Engineering](#) in EVTOL Software Engineer (BSc)
- ICT Project Manager Program, datanomi (BSc), Taitotalo, 2018.
- Johtamisen ja yritysjohtamisen erikoisammattitutkinto (JYET), Leadership Program, Business College, 2019.
- Matriculation examination, Myyrmäen lukio.

Certifications

- AWS Architect Associate. AWS Practitioner.
- Level C Certified Project Management Professional, IPMA (International Project Management Association).
- Microsoft Azure Academy, Microsoft Cloud Academy, Saranen.
- Microsoft BizSpark Startup Program .NET, C#, Microsoft Azure, Microsoft Visual Studio.

Risto Anton's Skills

Competence Area (as of now situation)	Experience In years / IQ Level (1-5)	Projects and available solutions
Leading the consultative solution sales Client engagement Skills	15 / 4	Lifetime Group delivers solutions and SaaS services on the XR and Metaverse Web3 Cloud edge. We offer international sourcing teams through Lifetime Certified Partners Consortium ³ . CPC3 has a monthly fee of 4,99 eur for Standard Partners, 9,99 premium.
Leading project digital sales Observing the productivity Communicating and marketing Delivering value to the clients	15 / 4	Daily solution sales; understanding the answer for the customer gaps, understanding relevant technology stacks, platforms negotiating with clients, defining solutions and the project scopes, preparing business cases and learning from cases writing sales proposals, project artifacts incl. plans Key Milestones, to do Budget tracking, budget reports and managing deviances, creating project communications. Accountable for the overall ownership for all customers assigned to the Customer Portfolio and building strong relationships with the decision-makers and influencers of the clients. Manages and organizes sales activities and leads and drives performance to ensure volume and revenue targets are met. Identify clients' business strategies and objectives, needs and buying criteria to develop and articulate value-based solutions to address their needs and wants. Accountable for identifying all relevant opportunities as per company growth strategy, through collaboration with both internal and external stakeholders. Leading Customer and vertical based tailor-made solutions in line with company strategy. Generates new opportunities and develops local differentiators and formulates a business plan to support target delivery. Ensures sales systems and reporting are up to date for management tracking, analysis and planning.

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		Collaborate with local and international colleagues to provide first-class service to further increase customer satisfaction and loyalty.
Management Accounting	Good	Accountable and ownership of all customers in the Customer Portfolio
Communication and Teamwork Skills	excellent collaboration skills	Building stronger relationships with the decision-makers and influencers of the clients on various channels.
Working in the multicultural workspace	language skills English 4 Finnish 5 Swedish 3 German 1	Relationships do matter - Risto Anton has a friendly and patient personality, result-driven teamwork attitude, flexibility on remote or office and other working conditions issues like working hours, high-level of passion about customer satisfaction, 'kaizen' on software skills and on ensuring secure solutions as a motivator.
Soft Skills		Risto has ethically strong thinking and fairly decent, international manners. Considerate, Harmony, Approachable, Trusting, Warm, Energy, Sociable.
Joy Quotient (JQ) test with 7 top empathy related attributes.		Huomaavainen, lämmin, harmonia, saavutettavissa, kyky kuunnella, ihmiseen luottava, energinen, sosiaalinen.
Risto Anton's Marco Report 15.8.2022 ORGANIZER AND INNOVATOR		An Innovator Organizer profile prefers to express their creative personalities within an effective framework, helping them best achieve their objectives. He is dynamic, and knows how to find original ideas and he shows a real entrepreneurial spirit, along with a great ability to sell the approved ideas into projects.
		Risto's leadership and good head for business are invaluable in turning their calculated risks into opportunities and further into client value. He thrives in careers related to creative or even artistic project management.
Business development	12+ / 3,9	1. Which Customers and Regions are we targeting? EU, Finland, Sweden, and Norway.
Consulting		2. Which Industries do you focus on? Solutions Engineering for the Edge is an emerging practice to increase business value in many industries including automotive, energy, telecom, manufacturing.
		The trend is ongoing data transformation into Hybrid Cloud environments and improving security and business value.
		3. Which are the target Clients Titles/Job Designations for the sales engagements?

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		We focus on decision makers that see added business value that we have to offer in our solution sales; CEOs/CIOs/POs/Architects/PMs in Scandinavian companies.
Innovation project management	12+ / 3,9	agile Projects DWS Senior Project Manager kts.esite. building company cap table & Fundraising Roadmap solution selling Project CIMS PM Fundraising Roadmap
Process development	12 / 4,4	Lifetime Group builds value with continuous integration and delivery to deploy solutions for the hybrid cloud. We are your go-to Copilots on AWS, IBM Cloud, Google Cloud, Microsoft Power Apps and Microsoft Azure, and with GitOps Business Development. We digitally copilot, move and transform your business to the next value level.
Agile organization development SAFe / kokonaisketterä.fi Bisnesteknologiamalli BT-Standardi (pdf) Capability Maturity Model Integration (CMMI) is a process level improvement training and appraisal program. Katakri is the authorities’ auditing tool, which an authority can use in assessing the target organization’s ability to protect an authority’s classified information. ISO/IEC 27001 specifies the requirements for establishing, implementing, maintaining and continually improving an information security management system within the context of the organization. ISO 21500 specifies the organizational context and underlying concepts for undertaking project, programme and portfolio management. ISO 38500 provides guiding principles for members of governing bodies of organizations (which can comprise owners, directors, partners, executive managers, or similar) on the effective, efficient, and acceptable use of information technology (IT) within their organizations. ISO 13485 specifies requirements for a quality management system where an organization needs to demonstrate its ability to provide medical devices and related services that consistently meet customer and applicable regulatory requirements. COBIT is the globally accepted framework for optimizing enterprise IT governance. The IT4IT™ Reference Architecture, a standard of The Open Group, is a powerful tool for aligning the strategy and digital product delivery of a Digital Enterprise.	12 / 4,2	An agile organization is a human-centric organization that responds and adapts quickly to changes in the marketplace or environment. The agile organization focuses on satisfying its customer's needs through continuous delivery of increasingly valuable solutions (not only products) to its customers. An agile organization delivers solutions to customer gaps that are identified but not yet solved. Konsultin käsikirja on Lifetime Groupin sisäinen opas konsulteille. Kirjassa käsitellään konsultin arkisia toimia, sekä kaikkea sitä tietoa joka hänen tulee hallita asiakastyössä. Kirjan voitte tilata tästä. ssh.com (PrivX business cases)

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ITIL PMBOK PRINCE2 SFIA ja TOGAF Github Projects, Atlassian JIRA; BitBucket, Confluence Security Operation Center (SOC) Sentinel zero-trust access management (PAM)		
Business Intelligence and Reporting	5+ / 3,8	(POC Product) Amazon QuickSight - Business Intelligence from AWS . Amazon QuickSight allows everyone in your organization to understand your data by asking questions in natural language, exploring through interactive dashboards, or automatically looking for patterns and outliers powered by machine learning. Microsoft Power BI / Jupyter Notebooks SAP Crystal Reports
Design thinking and Service Design	12 / 3,8	Pretotyping is a set of tools, techniques, and tactics designed to help you validate any idea for a new product quickly, objectively, and accurately. The goal of pretotyping is to help you make sure that you are building The Right It before you build It right. The design thinking process can be articulated in five steps or phases: empathize, define, ideate, prototype and test. IBM Design Thinking
CRUD Applications / APIs design	7 / 3,0	CRUD Based Application development including REST API design and test (CREATE, PUT,GET, DELETE) Automation with Postman APIs Test Automation platform
Moving into Serverless Containerised software Architecture (based on SOA)		Scalable serverless architecture application: <i>Blue Note</i> IaaS with VMs PaaS with containers APIs, workflows, queues, and databases FaaS Functions as a Service (parts of SaaS) OpenFaaS Library GitHub (PLONK) kandi Workshop AWS Serverless AWS Lambda for .NET developers amazon.lambda.tools 5.4.4 The AWS Cost Explorer for DWS project Visual Studio 2022 Developer Command Prompt 17.4.1 an event-driven, push-based pipeline Gen2 Vm on Azure DevBox Microsoft Azure Functions Execute event-driven serverless code functions with an end-to-end development experience. IBM Cloud Functions Google Cloud Functions Serverless Containers Services Analytics Services, Notification Services, Payment Services, Search Service,

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		<p>Observability Cache Services</p>
<p>Messaging Services</p> <p>Monitoring serverless Amazon CloudWatch Logs Insights serverless snippets</p>		<p>DWS MVP Project: Amazon MQ, Amazon EventBridge, Amazon Kinesis Data Streams, Amazon Kinesis Data Analysis, Amazon Sagemaker, Lambda, DynamoDb.</p> <p>NATS is a simple, secure and performant communications / monitoring system for digital systems, services(request/reply), streams(events/data) and devices, run on Docker with Prometheus Exporters, Fluentd Plugin, OpenTracing/Jaeger support, Dapr.io Component Integration, Spring Boot Starter, NATS/</p> <p>DIDComm Messaging is a powerful way for people, institutions, and IoT things to interact via machine-readable messages, using features of decentralized identifiers (DIDs) as the basis of security and privacy. It works over any transport: HTTP, Bluetooth, SMTP, raw sockets, and snekernet.</p>
<p>Continuous Delivery on Customer Projects and Software development</p>	<p>Your Go-To Copilots of Innovations and Solutions made of Hybrid Cloud/AI/ML/GitOps/Data-Driven/Automation / Containers</p>	<p>Azure DevOps for dws4 project responsibilities include</p> <ol style="list-style-type: none"> 1. Managing project backlog w. Azure Boards (Agile Kanban and Scrum teamwork). 2. building Deployment automation workflows 3. Testing with 3 operations: Unit tests "solitary tests" for code logic. Testing code modules in isolation with mocks and stubs. integration tests "sociable tests". Testing code against Azure and AWS Services like AWS EventBridge. Payload-based filtering is one of the key reasons why choose EventBridge over SNS. 4. end-to-end tests "production ready tests", Test the deployed application through its API.

		<ol style="list-style-type: none"> 5. Develop release strategy with relevant stakeholders and communicate on the release schedule. 6. Review the current team, processes and tooling, and make improvement suggestions. 7. Identify the risks that can delay the release and manage them, such that the scope scheduled, and quality of the release is not affected 8. Communicate with release managers from different stakeholders. 9. Coordinate defect backlogs, planned releases on github projects, and plan security and infrastructure services updates if needed. 10. Schedule release readiness reviews before deployment and milestone reviews after each release. 11. Organize regular agile meetings to update the runbook for each major release. 12. Team up with relevant development teams responsible for building the automation tools used to develop and deploy the software. 13. Make improvements in the methodologies used for configuration management and development of software that helps to find ways to use IaC tool. 14. work with cloud partners and providers operations/support 15. Maintenance Services work (VMs, Images, Shell Scripting, etc.) 16. Solution: Teamwork Cross-teams. <p>CI/CD on AWS AWS Security Reference Architecture (SRA) AWS Well Architected data pipelines open source SCA, SAST and DAST tools AWS CI/CD Services:</p> <p>AWS CodeBuild – A managed continuous integration service that compiles source code, runs tests, and produces software packages that are ready to deploy. AWS CodeCommit – A managed source control service that hosts secure Git-based repositories. AWS CodeDeploy – A managed deployment service that automates software deployments to a variety of compute services such as Amazon EC2, AWS Fargate, AWS Lambda, and on-premises servers. AWS CodePipeline – A managed continuous delivery service that helps you automate your release pipelines for fast and reliable application and infrastructure updates. AWS Lambda – A service that lets you run code without provisioning or managing servers. You pay only for the compute time consumed. Amazon Simple Notification Service – Amazon SNS is a managed messaging service for both application-to-application (A2A) and application-to-person (A2P) communications. Amazon S3 is storage used to store and retrieve any amount of data at any time, from anywhere on the web. AWS Systems Manager Parameter Store – Parameter Store gives you visibility and control of your infrastructure on AWS. It can be set in AWS CloudFormation.</p>
Enterprise architectures	15	SOA / Microservices architecture, 3- tier architecture, Server based architecture. in the cloud; Monolith architecture

		<p>SaaS Serverless (with Containerised Functions / Lambdas) architectures CI/CD technical stacks Project portfolio management thinking portfolio fe.</p>
<p>Software architectures Patterns Software architecture Design</p>	7 / 3,8	<p>Seven layers of defense.</p> <ol style="list-style-type: none"> 1. Policies, procedures, and employee awareness & soft skills, demographic security. 2. Physical security 3. Perimeter defense 4. Internal network security 5. Host security 6. Application security 7. Data security <p>Technical architecture design for solution using Serverless approach.</p> <p>Solution architecture design: Serverless solution architecture vs. traditional EC2 based Compute architecture model.</p>
<p>Manage Cloud and On-Prem workloads and developer workstations and workloads on containers</p> <p>AWS Route53 AWS Organizations AWS Control Tower EDR / NDR Amazon Mail Wordpress Bitnami hardened image</p>	7 / 4,1	<p>Risto Anton is the Owner of Lifetime Group, CEO is managing the AWS Security, Compliance and Governance at Scale and doing technical work hands-on successfully.</p> <p>https://dws10.com risto.anton@dws10.com</p> <p>Project: Lifetime Group's Admin Project Domain Management Planning Strategic Roadmap for Cloud Services Undertaking strategic reviews, identifying gaps and opportunities within the client organizations.</p> <p>enquiries about the Admin Project risto.anton@dws10.com</p> <p>Lessons Learned a ton of new while setup of the dws project site at https://dws10.com. The site is managed with Amazon Route 53, which is a reliable, cost-effective way to route end users to Internet applications along with deployment of the Amazon Work mail with multiple user accounts on AWS IAM and their mailboxes.</p> <p>Administrating Dws10.com & multiple sites WordPress Automattic/6.0.1-6-r04 on Debian 11 by visiting https://aws.amazon.com/marketplace/pp/prodview-bzstv3wbn5wkq</p> <ol style="list-style-type: none"> 1. 2MFA solution as service on WordPress 2. Amazon mail is as an email service dws10.com (Microsoft exchange) 3. Managing AWS Organizations, which enables to centrally manage, govern and consolidate

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		<p>all of a client's AWS accounts in the AWS Cloud Tower using (SRA) principles.</p> <p>4. NDR/EDR on AWS Control Tower.</p>
<p>Multi-Platform Application UI Development with Dart language</p> <p>Microsoft Visual Studio Code with on Windows 11 Pro 22000.795</p> <p>Visual Studio Code 1.73</p> <p>Ubuntu 20.04.5 LTS (GNU/Linux 5.15.68.1-microsoft-standard-WSL2 x86_64))</p> <p>WSL version: 0.70.0.0 (Windows Subsystem for Linux)</p> <p>Kernel version: 5.15.68.1</p> <p>WSLg version: 1.0.45</p> <p>MSRDC version: 1.2.3575</p> <p>Direct3D version: 1.606.4</p> <p>DXCore version: 10.0.25131.1002-220531-1700.rs-onecore-base2-hyp</p> <p>Windows version: 10.0.22621.675</p> <p>Docker version 20.10.17,</p> <p>git version 2.25.1.</p> <p>Flutter 3</p> <p>FireBase</p>	4y / 4,0 IQ	<p>developer tasks</p> <ul style="list-style-type: none"> • Coding .NET MAUI • Debugging Code • Building • Testing functionality • Continuous delivery workflow • AWS Toolkit 1.45.0 • SAM CLI, version 1.53.0 • Azure Functions • AWS Step Functions, a low-code visual workflow service to build distributed applications, automate IT and business processes, and orchestrate AWS services with minimal serverless code. AWS intrinsic functions reduce costs of workflows ca. 50%. • Serverless workflows • Azure Logic Apps • Docker Dev Environment 4.11.x • npm 8.11.0 • aws CDK JSON/TypeScript
<p>.NET Multi-platform App UI development</p> <p>.NET</p> <p>C# 10</p> <p>XAML</p> <p>MAUI with a cross-platform framework for creating mobile and desktop apps with C# 10 and XAML.</p> <p>Building native apps that run on Android, iOS, iPadOS, macOS, Tizen, Windows from a single shared codebase on GitHub Codespaces.</p> <p>NET MAUI is the .NET Multi-platform App UI, a framework for building native device applications spanning mobile, tablet, and desktop.</p>	3 / 3,5	<p>https://github.com/bitfighter/bitfighter</p> <ul style="list-style-type: none"> • Visual Studio 2022 Community • Ubuntu on WSL2 Windows Subsystem for Linux, Visual Code, azure-cli 2.39.0-1, • aws-cli/2.7.20 Python/3.9.11 Linux/5.10.102.1-microsoft-standard-WSL2 • Docker 4.11 • Git • GitLab Community Edition/GitLab CE 15.2.2 Release • Shell Scripting zsh / bash • Xamarin Forms • declarative IaC tooling for Azure including ARM Templates, Bicep and Terraform.
<p>Database design</p> <p>NoSQL Workbench for Amazon DynamoDB</p> <p>ORM architecture</p> <p>Microsoft Storage Explorer</p> <p>Azure SQL Database</p>	7 / 3,5	<p>Design Schema</p> <p>Design a testing strategy</p> <p>Create detailed designs for a solution</p> <p>SQL Database is a cloud database service built for application developers that lets you scale on-the-fly without downtime and efficiently deliver your applications.</p>
<p>Administering on Microsoft 365 Admin Center</p> <p>Azure Sentinel</p> <p>Administering business apps on Microsoft 365</p>	7 / 3,0	<p>Hands-on practitioner to manage lifetimeconsulting.eu domain since 2018 on Microsoft 365 and Microsoft Azure.</p> <p>Certification: Microsoft Cloud Solutions Architect (Microsoft Academy 2017-2018 6 kk hands-on training Saranen/ Roine Antti, Bergius, Roine Jussi).</p> <p>Azure Sentinel is Microsoft's cloud-native SIEM that provides intelligent security analytics for your entire enterprise at cloud scale.</p> <p>This SIEM as a Service (SIEMaaS) solution is designed as a cloud-based security-monitoring platform that leverages the power of the cloud for analytics and detections.</p> <p>Administering domain lifetimeconsulting.eu on Microsoft 365 Business since 2018. (E3 trial).</p>

Microsoft Power Apps Platform Wave 2 solutions includes Customer Query Buy consultancy with calendar etc.		Microsoft Power Platform enables users and organizations to analyze, act on, and automate the data to digitally transform their businesses. Microsoft Power Platform today comprises four products: Power BI, Power Apps, Power Automate, and Power Virtual Agents
Build and version management GitHub Azure DevOps	3 / 3,2	2022 Design a testing strategy Create detailed designs for a solution
Configuration management IaC Terraform Cloud Managed Kubernetes AWS CDK		Kubernetes API and Kong Ingress Controller. Kubernetes Ingress is one of the most widely used resources across Kubernetes
CICD Agile cicd for github actions -> Azure		serverless.com AWS CloudFormation
API Design API Gateway management		Serverless HTTP/3 & QUIC The HTTP/3 support for end user connections is built on top of s2n-quic, an open-source QUIC protocol implementation in Rust and designed to improve performance and end-viewer experience by reducing connection times and removing head of line blocking. Amazon CloudFront
Managing Hybrid Cloud CI/CD Kubernetes Production-Grade Container Orchestration Kong Ingress TerraForm Cloud IaC SIEM evaluation project; Microsoft Sentinel Workspace on domain lifetimeconsulting.eu ServiceNow Ticketing (SOAR) evaluation	3	<ul style="list-style-type: none"> • 90 days DevOps Journey and CI/CD • k8s / Docker • TerraForm Cloud / Registry • Log management • Monitoring and incident response • Ticketing system integration • Policy violations and enforcement validation • Compliance obligations (for example, HIPAA, PII, COBIT 5) • Certifications (ISO 27001)
Building Serverless on AWS Amazon Web Services Partnerships: Amazon Marketplace Consulting ISPs, ISVs. Frameworks AWS Serverless Application Model (SAM) AWS CloudFormation Serverless framework is All-in-one development & monitoring of auto-scaling apps on AWS Lambda. Serverless open source frameworks on cncf	7	<ul style="list-style-type: none"> • Compute: Various workloads that deliver business value to Lifetime Group. • WordPress IaaS Bitnami with Virtual Machines Debian Linux managing machines. • PaaS managed machines. • Azure App Services, provisioning pre-built SaaS images • Storage, SQS Messaging, Data, Networking • Serverless with Azure Functions and Azure Logic Apps • Containers Docker / k8s Registry • Production Kubernetes Services • Azure Pipelines CI/CD
Building on Microsoft Azure Power Apps Platform Developer	7 / 3,5	<ul style="list-style-type: none"> • Compute: Azure IaaS with Virtual Machines Linux/Windows Docker managing machines. PaaS managed machines. • Running on Azure App Service, provisioning pre-built SaaS images and websites (web app architecture / API app) • Storage, Messaging, Data, Networking • Serverless with Azure Functions and Azure Logic Apps • Container Docker images on k8s • Azure Kubernetes Service • Azure Pipelines CI/CD.

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		<ul style="list-style-type: none"> ● Azure Active Directory IAM: Authentication Framework Microsoft Entra Verified ID GA
Building on Google Cloud Cloud Run APIs GCE Cloud Storage cims1909 Cloud Shell Editor - built using Eclipse Theia Cloud Spanner Fully managed relational database managed serverless containers Flutter 3 Developer Google Analytics for FireBase cims1909 Google Cloud Managed Service for Prometheus monitoring Integrations: cims1909 metrics, logs, dashboards and alerts to the application stack. observability and monitoring integrations: Grafana, Microsoft AD, .. PostgreSQL Cloud Run Jobs GA (serverless containers) AWS Fargate	12 / 3,1	Cloud Console Project number: 597105056970 CIMS 1909 . Serverless containers; leveraging containers instead of functions to implement the custom logic and using the container as a utility service and incurring costs only when the container runs. Build and deploy scalable containerized apps using your favorite language (Go, Python, Node.js, .NET) on a managed serverless platform. Monitoring
Amazon Cloudfront		AWS Fargate Project: a serverless, pay-as-you-go compute engine that lets you focus on building applications without managing servers. Building on AWS Fargate Serverless. My project deploys and secures workloads on Fargate. the tools and techniques the firm uses for real-time threat detection and response. HTTP/3 Support for Amazon CloudFront 🙌 HTTP/3 uses QUIC to overcome many of TCP's limitations post by @channyun https://aws.amazon.com/blogs/aws/new-http-3-support-for-amazon-cloudfront/ #AWS #CDN #Networking See Business Case: Amazon Cloud PoPs and AWS Lambda on Reunalaskennan menetelmät valmiudet (whitepaper: Order here). Project: DWS 4 uses CDN and serverless technologies.
Test automation Snyk Developer Security GitHub Codespaces & Copilot	3 / 3,0	Security operations center (SOC) teams rely heavily on security information and event management (SIEM) solutions for data management, deep intelligence, and incident response—but traditional SIEMs don't emphasize cloud-specific events and unauthorized scenarios. To improve AWS deployments, SOC teams need new and cloud-centric capabilities.
Artificial Intelligence	4 / 3,5	Certifications: IBM Data Science, IBM AI . Services include Computer vision Natural Language Processing (NLP) Speech Recognition Machine Learning Intelligent Search Optimization Engines Deep Learning Explainable AI Time series forecasting Reinforcement learning IBM Watson Amazon SageMaker Azure AI
Machine Learning		

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		Open-source frameworks and languages including MLflow, Kubeflow, ONNX, PyTorch, TensorFlow, Python, and R.
Testing and Debugging Docker Test Environments Build / Shared Containers Dapr 1.8.0 Linux CLI / Runtime is a portable, event-driven runtime that makes it easy for any developer to build resilient, stateless and stateful applications that run on the cloud and edge and embraces the diversity of languages and developer frameworks. Leveraging the benefits of a sidecar architecture, Dapr helps you tackle the challenges that come with building microservices and keeps your code platform agnostic. linux Dev environment Docker Dev Environments GitHub Workspaces	7 / 3,5	Performance testing Docker Desktop 4.14.1 Mac
Cybersecurity Skills	12 / 4,0	<ul style="list-style-type: none"> • Can lead and/or coordinate and participate in the development of cyber security projects. • Can Lead and/or participate in the planning, design, and implementation of cyber security controls, and evaluate and lead the implementation of SIEM. • Can Develop cyber security policies, procedures and recommendations. • Can work to ensure Cyber Security services are deployed, configured and managed as required. • Is able to develop service related KPI's to support the reporting of the clients Cyber Security posture. • Can work with the SOC team as team member open, work, close in daily tickets (ServiceNow). • Can work as analyst on Microsoft Defender Threat Intelligence (Defender T1) platform to streamline triage, create and manage incident response, carry out threat hunting and vulnerability management duties, etc. • Can deploy an Azure Active Directory into domain, deploy Premium license for Defender 1, Azure Sentinel. • Can deploy and analyze output of The Microsoft 365 Defender solution for Microsoft Sentinel enables you to ingest Security Alerts/Incidents and raw logs from the products within Microsoft 365 Defender suite into Microsoft Sentinel. • Based on RiskIQ can do operations on client domains to reduce attack surface when needed.
Blockchain	5	<ul style="list-style-type: none"> • Decentralized Identity Foundation • Microsoft Entra Verified ID (GA) • HyperLedger Aries 4 •

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IT Infra Skills		
IT Operations management Backend observability Linkerd adds critical security, observability, and reliability features to your Kubernetes stack with no code change required.	3 / 3,2	is familiar with multiple cncf.io Cloud Native Computing Foundation Projects Prometheus is a systems and service monitoring system. Linkerd is an ultralight, security-first service mesh for Kubernetes.
Data Science; excel use of data Reporting	5	Organizations that excel use data to deliver value to their customers, deriving at least 20% of revenue from data and analytics (DataStax).Data leaders improve the customer experience with better personalization, deliver deeper insights for strategy and tactical work, and increase client revenue streams. Jupyter Notebook / Jupyter Server Microsoft / AWS / IBM Microsoft Power BI
Ict security, continuous serverless delivery	15	2022
NoSQL Databases Azure Cosmos DB Amazon DynamoDB Amazon Aurora SQL Databases MySQL MariaDb DB SQL / NOSQL Amazon OpenSearch	12 / 3,2	NoSQL Workbench for Amazon DynamoDB Microsoft StorageExplorer OpenSearch enables you to easily ingest, secure, search, aggregate, view, and analyze data for a number of use cases such as log analytics, application search, enterprise search, and more.
Coding and DevOps Skills		
TypeScript AWS Lambda Power Tools for TypeScript is an open-source developer library to incorporate Well-Architected Serverless best practices into AWS Lambda function code.	7	TypeScript is safer than JavaScript and is supported by AWS and Microsoft so it's a safer choice for many needs.
Svelte Native Mobile Development React Native Mobile Development	5	Svelte Native Mobile development framework 1987 "Svelte Native is a new approach to building mobile applications using NativeScript. Where other JS-Native frameworks like React-Native and Nativescript-Vue do the bulk of their work on the mobile device, Svelte Native shifts that work into a compile step that happens when you build your app. Instead of using techniques like virtual DOM diffing, Svelte writes code that surgically updates the native view widgets when the state of your app changes." React Native combines the best parts of native development with React, a best-in-class JavaScript library for building user interfaces, supports JSX.
Node.js v16.16.0-x64.msi npm package manager	8	Node.js is a JavaScript runtime built on Chrome's V8 JavaScript engine.
C, C++, C#, Go, HTML5, JavaScript,CSS	12 / 3,6	Coding with the The Internet Web2 tools Microsoft Visual Studio Code 1.73 Microsoft Windows Shell Scripting Terminal 1.14.1963.0 PowerShell ARM Scripting 7.2.7
Designing Applications on Google Cloud		Project: Lifetimestudios.eu

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Flutter 3 multiplatform UI development Firebase Google Developer Network	7	MAUI platform from Google powered with Dart language is an excellent choice. Android Studio
AWS Deployment AWS Toolkit AWS Cloud Development Kit (AWS CDK) cdk8s CDK for Kubernetes (TS constructs) AWS CloudFormation Designer on project dws41 YAML, JSON	7	The AWS Cloud Development Kit (AWS CDK) is an open-source software development framework to define your cloud application resources (patterns , libraries) using TypeScript, Python, C#, the CDK patterns . Libraries for AWS Cloud Development Kit (AWS CDK), which generates AWS CloudFormation (managing with CF designer) for templates, and CDK for Kubernetes (CDK8s), which generates Kubernetes manifests. <ol style="list-style-type: none">1. use preconfigured application components2. model my application3. provision my application with AWS CloudFormation templates.
Administering application ecosystem Google Workspace Enterprise	15	Administering lifetime.fi domain on Google Workspace. Administer the service environment (SIEM) Know how to deploy applications to multiple sites Monitor the central infrastructure Design and customize the search queries using a proprietary language Develop dashboards, data models, reports, and optimize their performance
Maintaining DevOps environments on Linux, Windows, MacOSes Python scripting Jupyter Notebook Shell Scripting	7 / 4,0	Python 3.10.5 on Mac JAVA JDK 17 on Mac Java 1.84 Runtime on Mac Developer Terminal
Modeling & Business Model Development Gliffy Atlassian JIRA, Atlassian Confluence, wikis	15 / 4,0	Metropolia.fi (wikin teko kurssille älykkäät teolliset ratkaisut Google Sites palvelussa).
Product platforms		
Apache Spark 3.x Apache Whisk	2	2021
IBM Watson (as of Business Partner)	2	Managed Detection and Response (MDR) solutions
Amazon Web Services (as of Consulting Partner)	5	
Role: Ms Azure Architect	7	
Azure DevOps	5	
VMWare Tanzu Community edition	3	
Bitnami virtual machines		
Software development project and lifecycle mgmt		
Git on Ubuntu & Mac GitHub as Development Platform GitHub Projects	3	
GitLab CE 15.2.0	2	GitLab Community Edition platform covers 100% of software development lifecycle with issues, code review, CI, CD, and release cycle analytics wrapped into an elegant UI so you can improve your team's software development and to accelerate software delivery.
Atlassian JIRA Confluence	4 / 4,0	managing backlog and projects on JIRA platform. Plan, track, and manage your agile and software development projects in Jira. Customize your workflow, collaborate, and release great software. Issue management.
Mobile platforms		
Apple iOS	7	

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XCode		
Google Android Android Studio	7	
OS platforms, VMs, Containers		
Google Anthos	2 / 3,0	Perhaps the Best Multicloud management platform. container orchestration and management service for edge and hybrid cloud.
Apple OS X	6 / 4,0	As daily tool.
Linux Server Images on the cloud Various AMIs and images VMs on AWS Various VMs on Microsoft Azure Microsoft Windows Server IIS	15 / 4,5	Directly build on VMs -The physical deployment of each service requires you to have a set of instances with additional tasks to address required activities such as load balancing transactions clustering caching messaging data redundancy
microservices architecture	5 / 3,5	an important approach for distributed mission-critical applications. In a microservice-based architecture, the application is built on a collection of services that can be developed, tested, deployed, and versioned independently.
Testing and QA		
software development lifecycle	4	Role: DevOps Engineer GitLab is one platform that covers 100% of software development lifecycle with issues, code review, CI, CD, and release cycle analytics wrapped into an elegant UI so you can improve your team's software development AND accelerate your software delivery. AWS CI/CD with Open Source Tools
Azure DevOps Services DWS41 Project Montreux	5 / 4,0	Role: DevOps Engineer Hands-on various projects: dws41 GitHub Enterprise Owner: Lifetime Studios dws41 on GE GitHub Enterprise Member: Winlang
Unit Testing : Microsoft Visual Studio Enterprise	5 / 3	Developer Teams are Available from LCP3 Partners
Continuous delivery with Clean Code: Sonarqube with GitLab		Project: DWS41 Montreux Role: QA Engineer
JMeter	0,2	Clean Code QA Teams are Available from LCP3 Partners
Continuous Inspection and Testing Katalon Studio, Selenium, Appium, Testsigma	5 / 2	Continuous Testing Teams are Available from LCP3 Partners
Business Software products		
SAP	6 / 3,0	Role: SAP Project Manager Membership: SAP Developer Network since 2001
MSOffice 365 Power Apps	6 / 3,2	Role: PowerApps Consultant Membership: Microsoft Developer Network since 1996
Microsoft 365 Dynamics for Sales	1 / 3,0	
Container technologies		Containers are usable on Cloud Computing. Managing container fleet needs professional that has administrative skills for multiple years.
Docker	6 / 4,2	Enterprises are increasingly realizing cost savings, solving deployment problems, and improving DevOps and production operations by using containers. Docker has become de facto standard. Docker Desktop 4.11.0 (83626). Project: eShop

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Kubernetes Management Platforms Tanzu Community Edition	4 / 4,0	
Event Driven Architecture		
Amazon EventBridge	6	Amazon EventBridge is a serverless event bus that makes it easier to build event-driven applications at scale using events generated from your applications, integrated software as a service (SaaS) applications, and AWS services. EventBridge partner event source integrations enable customers to receive events from over 30 SaaS applications and ingest them into their AWS applications.
AWS API gateway	2	Amazon API Gateway is a fully managed service that makes it easy for developers to create, publish, maintain, monitor, and secure APIs at any scale.
scalable serverless GraphQL APIs	2	
AWS AppSync	2	AWS AppSync is a serverless GraphQL API service that simplifies application development by providing a single endpoint to securely query or update data from multiple data sources, like Amazon DynamoDB and Amazon Aurora RDS.
IBM API gateway	2	
Google API gateway	2	
Cloud services		
Terraform cloud Terraform Registry	4 / 3,0	2022
Role: MS Azure Solutions Architect	6 / 4,0	2022
Role: MS Office 365 Administrator	7 / 4,0	2022
Google Workspace Admin	15	application management user management security policy
Role: Amazon Web Services (AWS) Architect	6 / 4,0	2022
Business Sector Knowledge	Experience in years	Last Used in Project / Program
Insurance		
Finance	4	years of company finance process experience. Project CIMS.
Retail	12	
Healthcare	4	
Government	6	
Telecom	4	
Media	12	
Energy	4	
Building Construction		
Process Knowledge		Skills
Finance	5+	
Role: Business Owner (BO): Human Resources Management (Consulting team, developer team)		
BO: IT Security and Administration		My Cyber Soft Skills are good situational awareness, threat recognition, verbal judo, weak signal analysis, person analysis, AI co-piloting when working on the 'field'. Azure Key Vault ASP.NET Core Secret Manager AWS Key Management Service (AWS KMS) makes it easy for you to create and manage cryptographic keys and control their use across a wide range of AWS services and in your applications. AWS Secrets Manager helps you protect secrets needed to access your applications, services, and IT resources. The service enables you to easily rotate, manage, and retrieve database credentials, API keys, and other secrets throughout their lifecycle.
BO: Software Engineering Skills		Maintaining hands-on all software engineering disciplines.

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BO: Solution Sales Skills	15+	sales process experience CRM, Salesforce
BO: Marketing Skills	15+	years of marketing process experience Google Analytics Google AdSense Google AdWords
BO: Teamwork Skills Remote Work	7	Team leader influencer; 15k LinkedIn followers, 2k twitter followers

Project experience

Lifetime Digital Workspace for Intelligent Industries is an award winning project approved by the European Commission and was first time funded in 2021 for a version 3 from EBAN Business Angel Network. We are building version 4 at the moment and Participating fundraising events on 10th of October for DWS 4 in various countries and events.

Project business name: Lifetime Digital Workspace for Intelligent Industries European Investment Portal name: Lifetime Digital Workspace Platform (dws) Customer: Lifetime Group Certified Partners Consortium Time involved: 05/2019 - present	Description of project: What is the goal of the project Montreux (version 4)? What has been achieved so far? Project version 3 has attracted EBAN to offer their support for the build phase on AWS. Project has a workable own site https://dws10.com and media services in place. What is the desired outcome? Platform: AWS, Microsoft Azure AD, Linux AMIs Backend Services: Amazon DynamoDB, S3 datalake, AWS Services Frontend Application: Android, iOS MAUIs role: Product Owner responsible for building MVP and fundraising roadmap along with the deck and pitch preparation. Risto Anton has extensive knowledge on European fundraising markets, Business Angels Networks, VCs, Crypto Funding space. Lifetime Group is a member of Metaverse Standards Foundation which is creating momentum and technical capabilities for AR/VR on Metaverse. role: Agile Project Manager responsible as start-up project manager to build everything from product idea into product launch including cost management under Technology Business Management (TBM) is a value-management framework . The TBM taxonomy provides the ability to compare technologies, towers, and solutions to peers and third-party options (e.g., public cloud). Secondly apm delivers a product roadmap for the fundraising initiatives. role: Solution Architect responsible as SRE to deliver everything as promised in-time on-budget. role: Developer responsible for creating mobile application mock-up, demo, fundraising demo, alpha, beta etc. versions, MVP, coding,
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	<p>backoffice, tools stack including cybersecurity and secrets management.</p> <p>Responsibilities:</p> <ul style="list-style-type: none">▪ solution architecture for development, testing, production. database design, data lakehouse design▪ UI design, mobile application, VR/AR.9 design and implementation of DevOps and its Security▪ continuous integration and deployment serverless framework AWS Lambda, CDK
<p>Project name: CIMS</p> <p>Customer: SaaS</p> <p>Time involved: 01/2019 - 07/2019</p>	<p>Description of project: Crypto Investment Management Studio (CIMS)</p> <p>Platform: Microsoft Azure</p> <p>Support: Microsoft BizSpark Program</p> <p>Finance: Finnvera loan</p> <p>Software: HTML5, C# MS SQL Server, IIS, HyperLedger Aries.</p> <p>Own role: Project Manager</p> <p>Responsibilities:</p> <ul style="list-style-type: none">▪ managing project team of 5 specialists▪ requirements specifications▪ test planning▪ testing▪ building

Career history

Lifetime Consulting 04/2018 - present	Job Title: Agile Project Manager Main responsibilities: <ul style="list-style-type: none"> Gantt charts ; Ganttter App, Microsoft Project. Project Planning, Project Costs, Project Resourcing. Project Portfolio Sprint Audit with agile, kanban, GitHub Actions, JIRA backlog owner Budgeting, Reporting. Ollut vastaavassa roolissa Verolla palkka.fi hankkeessa jossa toimin suunnittelupäällikkönä vastaten * hankkeen kilpailutusvaiheen suorittamisesta. Tarjouspyynnöt ja tarjousvaiheen viestintä. Sopimukseen ja palvelun järjestämiseen liittyvät hallinnolliset tehtävät, Projektipäällikkö valmistelee ja johtaa palvelukokonaisuuden seurantar ryhmän kokoukset yhteistyössä ohjausryhmän pj.n kanssa. Toimiminen ensimmäisenä kontaktina tilaajan suuntaan sekä vastuiden jako tiimin kesken (sopimusasiat, tekniset asiat, kehittämisen asiat, kumppaniyhteistyö). Palvelun organisointi ja kehittäminen ; roadmapin luominen Dokumentaation ajantasaisuudesta huolehtiminen yhteistyössä toimittajan ja SOCin kanssa. Yhteydenpito ja raportointi tilaajalle; johtoryhmä, ohjausryhmä, muut tilaajatahot? Monitoimittajaympäristön yhteistyön johtaminen ja koordinointi, palavereiden veto projektin osalta. Erillistehtävien koordinointi ja vastuutus sekä resursointi ml. erillisprojektit. Kehitystehtävien kehitysjonon (backlog) ylläpito ja priorisointi yhdessä tilaajan kanssa. Poikkeamien raportointi, tarvittaessa reklamointi, sopimusten tarkastelu, aikataulukysymykset, jne.projektin aikana ilmenevät nopeatkin tilanteet esim. sovellusarkkitehtuurista, palveluarkkitehtuurista, järjestelmäarkkitehtuurista, yksittäisistä komponeista johtuvat vikatilanteet sekä niistä toipuminen ja tai uudelleenmäärittelyn veto.
Lifetime Studios 04/2018 – present	Job Title: Cloud Developer Main responsibilities: <ul style="list-style-type: none"> Writing error-free code, Sprints work design and implementation of client solutions administering all testing and environments blue/green testing DevSecOps tooling the client solution/ software
Lifetime Studios	Job Title: Cloud Solutions Architect Main responsibilities: <ul style="list-style-type: none"> Writing error-free IaC code for Solutions Security of AWS Services Architectural design and implementation of client solutions administration of all testing and environments blue/green Strategy and Roadmap of DevSecOps, AMIs, Subscriptions tooling the client solution/ software. AWS Control Tower Management for Accounts Account Manager for client accounts. Containerization Team Leader for Projects.
Lifetime Group (Oy)	Job Title: CEO

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04/2018 –	Main responsibilities: <ul style="list-style-type: none"> ▪ solution sales ▪ workflow with the client consulting assignments, ▪ partnerships and agreements and cooperation with AWS, Microsoft, Google, WithSecure, SSH, Hashicorp GitHub, SaaS vendors (many partnerships).
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Language skills

Finnish	Native speaker
English	Fluent in project work and remote environments
Swedish	Good Tjänstemans Språkprov
German	Basics

Smart Factory Program in Metropolia University of Applied Sciences YAMK (M.S.)

Year	Course	Grade	Specifications
2022	Älykkäät teolliset ratkaisut	4 out of 5	
2022	Tutkimusmenetelmät ja valmiudet	4 out of 5	Metropolia University of Applied Sciences YAMK (M.Sc)
08/2022	Projektien johtaminen	certification	Metropolia University of Applied Sciences YAMK (M.Sc)
06/2022-10/2022	Reunalaskennan valmiudet ja menetelmät Sovellettu seminaari I	ongoing work Whitepaper Presentation	Applied extensive, deep knowledge of areas of building IoT / MQTT ecosystem, fast 5/6G private network, using containerisation on the edge, edge container orchestration, DIDs, use of Artificial Intelligence services on the cloud fe. Computer Vision, , Reinforced learning /Machine learning, and serverless framework logic apps. Please ask for a copy of the paper.
08/2022-04/2023	Kyberturvallisuuden valmiudet ja menetelmät, SOC työskentely Sovellettu seminaari II	ongoing work Whitepaper Presentation	Microsoft Defender, Microsoft PowerApps 2, Microsoft Sentinel, Microsoft Security Center, Microsoft Admin Center, ISO27001, SOC 2 type 2, please ask for a copy of the paper.
08/2022-	Master Theseis	ongoing work Whitepaper Presentation	I am open to discussing this with the client organization. Also very deep subject work to finalize as PhD is possible.
2020-	CISSP Certified Information Security Professional		8 ECTS
2020-	AWS Architect Certification(s) AWS Cloud Practitioner AWS Cloud Architect AWS Security Specialty		Risto Anton has extensive knowledge of Amazon Web Services, AWS Data Lake and related services, S3, AWS Athena, AWS Lambda, AWS Event Bridge, AWS API Gateway, AWS Architectures, Serverless Containerisation

2022	Certified Project Manager		IPMA Level C Certification

My AI Voice Interview

(Answers updated 08/2022, transcript)

Google has released a new tool for practicing job interviews with an AI coach called [Interview Warmup](#). The website is part of the company's Grow With Google program and uses speech-to-text and natural language processing to mimic a job interview for five different technical roles or a non-specific position.

What are you looking for in your next job?

As a Data Architect I want to analyze data sources and analyze data to find solutions to the customer issues raised that are in their business. To show customers data in appealing form is important, whether we use Power BI Pro, Microsoft 365, Power Apps Pro, BigQuery.

Companies use data to drive innovation and create a competitive advantage in their respective marketplaces. In this virtual event, four fast-growing startups share their experiences using BigQuery.

BigQuery is a robust cloud-based analytics platform that allows companies to analyze large datasets quickly and cost-effectively. By utilizing BigQuery, organizations can gain insights into their customer bases to create new products, understand their data, and make better decisions.

As a Cloud Architect the building of new services for customer needs is important. Securing business continuity, low RiskIQ Identity Access Management, Observability, Monitoring, Containerization, SaaSes. Then there is security, Disaster Recovery Planning (DR), for example Business Continuity and Disaster Recovery and their toolsets.

As Cloud Developer Building solid DevOps pipelines and teams associated with the right tooling and effective builds that follow secure policies like Snyk tooling, Git, Among others. IaC Scripts. I may lead a team or be a team member. I also think PowerApps like no code/low code workflows and automation will play a major role in many work duties in the near future.

Tell me about a time you had to deliver on multiple competing priorities. What did you do, and what were the results?

When there are multiple competing priorities, first, me and my team must prioritize and sort out which top three solutions and answers we need to solve urgently for the client. We need to analyze the gathered information and then make informed decisions in daily meetings.

At a strategic level, we want to make a critical road map for the following priorities for the company to prioritize the project portfolio and to then make it easy to meet the goals that our customer has set for us.

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You're putting together a presentation for a client using several data visualizations. What steps would you take in your final review of the presentation to make sure the information is clearly communicated?

In the presentation my team would state the problem first. then we would state the solution if available. Third, we would pinpoint the steps needed from the customer and from our side to reach a Go/No Go decision to deliver the solution to the customer problem.

When do you try to push through and solve a problem on your own, and when do you involve others on your team?

We need to make informed decisions after reviewing our team members' strengths and weaknesses, skills and capabilities to see which combination gives the best answer to solving the problem, and who will carry out delivering the solution.

Liite 1: Syventävän seminaarin erityiskysymyksiä**Yhteenveto ; Reunalaskennan menetelmät ja valmiudet**

Reunalaskenta (eng. edge computing) perustuu älykkäisiin päätelaitteisiin, joissa toteutetaan tietojenkäsittelyä. Näitä ovat älypuhelimet sekä erilaiset IoT laitteet, kuten kodinkoneet jotka keräävät tietoa ja jalostavat sitä "paikan päällä".

Useimmiten syötteenä tuotettua (eri päätelaitteista, konenäöstä) dataa analysoidaan ja tallennetaan lähellä sen keräyspistettä. Päätelaitteen hallintaa ollaan siirtämässä kontitettuihin käyttöjärjestelmäympäristöihin näiden laitteiden sekä reunalaskentapalvelujen hallittavuuden lisäämiseksi. Esimerkiksi tällaisesta kontitetusta reunalaskentaan soveltuvasta käyttöjärjestelmätoteutuksesta on [Red Hat Enterprise Linux CoreOS \(RHCOS\)](#).

Tällöin konttien orkestrointi suoritetaan pilvipalveluna Red Hat OpenShift alustalla. Palveluja voidaan toteuttaa OpenShift Serverless tekniikalla, joka perustuu open source Knative project -projektiin.

Järjestelmäarkkitehtuurina reunalaskennan toteuttaminen serverless containerisation tekniikoin on kasvava trendi useastakin syystä.

Ensiksikin, serverless mahdollistaa palvelujen toteuttamisen ilman virtuaalikonetta pilvipalvelussa. Näin kyetään välttämään viivettä, joka aiheutuu cold start tilanteesta Function as a Service -palvelun käynnistyessä esimerkiksi Amazon Lambda palveluna. Samalla saavutetaan tiedon siirrosta johtuvan viiveen eliminointia. Kontti voi olla warm standby-tilassa, jolloin palveluvaste on nopea silloin kun heräte saapuu.

Toiseksikin, kun tarvittava palvelu viedään konttitekniikalla laitteeseen, saadaan laitteen ylläpito ja vikatilanteet paremmin hallituiksi. Hajautetun identiteetinhallinnan kautta voidaan rakentaa PoP verkkoja, jossa funktio toteutetaan lähimmässä laitteessa josta funktio on saatavilla.

Reunalaitteiden serverless konttiratkaisun teknologipinoa valittaessa huomioidaan mm. yrityksen aiemmat arkkitehtuuritavoitteet ja –linjaukset esimerkiksi pilvipalveluiden osalta, sekä onko jo valittu jokin tietty pilvipalvelutoimittaja ja siihen perustuva kehityspolku, vai onko yrityksellä pilviagnostinen monitoimittaja pilvistrategia, erilaisten laitteiden, tiedonsiirron (5G, wirepas, jne), sekä konttien orkestroinnin sekä laitekontituksen järjestelmien kyvykkyydet, ylläpito ja sekä jatkuvan kehittämisen roolit, uusien teknologioiden kypsyys, liiketoimintamahdollisuudet sekä

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toteutusten ROE ja ROI kustannustehokkuus laitteiden elinkaaren sekä konntiteknologioiden sekä tiedonsiirron osalta.

Toiseksi on huomioitava ohjelmistoarkkitehtuurit sekä näiden toteutuksen valittu monitoimittajamalli; kuka toteuttaa palveluja, millä teknologiapinolla, sekä miten ja kenen toimesta toteutetaan jatkuva integrointi ja tuotantoonvienti mahdollistaen tuotekehityksen joustavuuden palvelutuotannossa mm. ohjelmoijien ulkoistamisen tai sisäistämisen osalta. Tällöin on asetettava erityistä huomiota esimiesten soft skills taitoihin , henkilöstön kielitaitoon sekä kulttuurisiin taitoihin monikulttuurisissa toimittaja,- kumppani,- ja asiakasympäristöissä.

johdanto on osa Reunalaskennan menetelmät ja valmiudet seminaarityötäni.

Liite 2: Syventävän seminaarin erityiskysymyksiä**Yhteenveto ; Kyberturvallisuuden menetelmät ja valmiudet**

pyydä lisätiedot Ristolta +358400319010

SOC is a team of IT security professionals that protects the organization by monitoring, detecting, analyzing, and investigating cyber threats. including helpdesk ticketing, back office support outsourcing services ie. Microsoft Sentinel , special operations teams lead.

Microsoft Sentinel is a scalable, cloud-native solution that provides:

Security information and event management (SIEM)

Security orchestration, automation, and response (SOAR)

Microsoft Sentinel delivers intelligent security analytics and threat intelligence across the enterprise.

With Microsoft Sentinel, you get a single solution for attack detection, threat visibility, proactive hunting, and threat response.

Microsoft Sentinel is your bird's-eye view across the enterprise alleviating the stress of increasingly sophisticated attacks, increasing volumes of alerts, and long resolution time frames.

Collect data at cloud scale across all users, devices, applications, and infrastructure, both on-premises and in multiple clouds.

Detect previously undetected threats, and minimize false positives using Microsoft's analytics and unparalleled threat intelligence.

Investigate threats with artificial intelligence, and hunt for suspicious activities at scale, tapping into years of cyber security work at Microsoft.

Respond to incidents rapidly with built-in orchestration and automation of common tasks.

Services from Lifetime Group

Information Security awareness

Information Security Management

Information Security Risk Management

Security Leadership

Security Strategy

Security Policies and Audits

Security Programs

Technical Security questions

ICS/ Operations Technology Security

Security Compliance Management and Auditing

ISO/IEC 27001

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Continuity Management
ITIL

Hybrid Cloud Security including On-Premises Workstation Management, Server Management, Network Management, Container Security Management.

Tämä johdanto on osa Kyberturvallisuuden menetelmät ja valmiudet seminaarityötäni, Copyright Risto Anton Päärni. Luvaton käyttö ja julkaiseminen kielletty.

Assessment - Risto Anton

This you can build upon:

You like to see your work in the context of a bigger strategic picture, though at times you may lose sight of this during your everyday work. You try to pursue ambitious plans and goals for your area of responsibility and you usually take into consideration a broad range of factors when forming these plans and goals.

You tend to be well informed about market trends and the activities of customers and competitors. You are oriented to business goals and considerations. You have an eye for new commercial possibilities and are likely to have a positive influence on the growth and profitability of a business.

You consider yourself to be very experienced in your professional area, and try to constantly be up-to-date. With your work, you can use your professional knowledge very effectively for solving problems and reaching goals.

Compared to other participants, it is **much easier** for you to handle the tasks in this test successfully.

Your result in the English Language subareas are as follows:

Your performance in the area 'fluency' can be described as follows: Compared to other participants, it is **much easier** for you to handle the tasks in this area successfully.

Your performance in the area 'vocabulary' can be described as follows: Compared to other participants, it is **easier** for you to handle the tasks in this area successfully.

Your performance in the area 'spelling' can be described as follows: Compared to other participants, it is **much easier** for you to handle the tasks in this area successfully.

Numeracy

Your completion of the test was **rather slow**, this means that you completed fewer tasks than most other people in the default time. At the same time you were **extremely accurate** which means that compared to other participants, you answered more tasks correctly.

Multitask Management

Compared to other participants, it is **easier** for you to handle the tasks in this test successfully.

This you need to be aware of:

You strive to find a middle ground between a pragmatic approach and the best-quality solution. You thoroughly consider financial factors and keep in-mind possible risks. You could **put more energy** into maintaining **a consistent focus on the end-result**.

You approach tasks in a relatively well planned out and systematic manner. You have certain priorities in mind and are also conscious of the necessary resources that you need to handle a project. You take possible difficulties and hindrances into consideration as far as possible even if you do not always realistically estimate the time required for the planned activities.

You can work effectively both alone and in a team but prefer to concentrate on your own tasks. In familiar groups, you contribute positively to the mood; however, when working with new teams, you may initially be somewhat guarded and reserved. You are happy to contribute to the overall success of the team but also like it when ideas and solutions you have contributed are recognised as such.