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Position Description

Position: Cloud Architect
Department: Engineering
Reports to: Software Development Team Lead
Direct Reports: None

Role Purpose	As a Cloud Architect, you will be the strategic visionary and technical authority for our cloud-based IoT ecosystem. Your primary responsibility will be to provide high-level guidance, design robust and scalable architectures, and ensure that all solutions meet both current and future business requirements. This platform will enable real-time connectivity with IoT devices using MQTT protocol, provide APIs for seamless third-party integrations, and deliver advanced analytics through intuitive dashboards. The role requires a deep understanding of cloud platforms, with experience in Azure (preferred), AWS, or GCP, as well as expertise in scalable architectures, data privacy regulations, and cybersecurity. You will play a key role in ensuring the platform is built to support thousands of IoT devices and advanced analytics, maintaining reliability, security, and flexibility to meet evolving business needs.
Key Success Outcomes	• **Advise and Oversee:** Offer expert advice and evaluate the technical designs and implementation strategies proposed by partner companies to ensure alignment with organizational goals and industry best practices. Advise a cloud platform for hosting that aligns with future business growth expectations. • **Architect and Design:** Make and assess critical architectural decisions early in the development process, focusing on scalability, reliability, security, and maintainability. • **Ensure Quality:** Validate that the system is built to handle real-time connectivity with IoT devices, supports seamless third-party API integrations, and provides advanced analytics capabilities through user-friendly and impactful dashboards. • **Maintain and Evolve:** Establish the foundation for a platform that can grow and adapt, meeting the needs of an expanding IoT ecosystem with thousands of devices while adhering to data privacy regulations and cybersecurity standards. • Develop and implement effective cloud strategies, ensuring they align with the company's goals and leverage platforms like AWS, Azure, or GCP.Continuously optimise cloud performance and manage costs to ensure efficient use of resources without compromising on quality. • Ensure all cloud systems adhere to security protocols and compliance requirements, minimizing risks and maintaining regulatory standards.

	• Proactively identify and resolve potential issues in cloud environments, ensuring high availability and reliability. • Collaborate with cross-functional teams to understand their needs and provide cloud solutions that enhance productivity and innovation. • Regularly review and update cloud strategies to stay ahead of industry trends and technological advancements.
Key Internal Relationships	• Software team, including embedded and frontend software development as well as test engineers • Engineering teams including Engineering Services, Systems Solutions and Power Conversion & Storage. • Operations team including manufacturing, sourcing, logistics • Project Management • Other Enatel departments as required
Key External Relationships	• Third party development partners • Internal and potentially also external customers • Contractors

Key Requirements

Accountability Area	Desired Outcome/Achievement Indicators
Efficient Cloud Strategy Implementation	• A clear and actionable cloud strategy is developed, adopted, and aligned with business objectives, ensuring a well-integrated cloud environment. • Cloud adoption increases operational efficiency and enhances the organisation's ability to innovate and scale.
Highly Scalable and Secure Cloud Infrastructure	• Cloud services and storage are designed and deployed to support current and future scalability needs, with minimal downtime and robust security. • Continuously optimized operational costs while maintaining performance benchmarks.
Optimised Cloud Costs and Performance	• Cloud resources are utilized efficiently, resulting in optimal performance and high up-time. • A secure and compliant cloud environment that minimizes vulnerabilities and supports business continuity.
Compliance and Security Assurance	• Cloud infrastructure adheres to industry security standards and compliance regulations, reducing risks and maintaining trust with stakeholders. • Enhanced collaboration between development, operations, and cloud teams to deliver faster and more reliable solutions.
Seamless CI/CD Integration	• Collaboration with DevOps initiatives results in efficient CI/CD pipelines, enabling faster deployment cycles and consistent system performance. • Establishes a flexible cloud ecosystem capable of supporting future technologies and business needs.

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Other duties:

- Upholds the company values.
- Perform any other tasks as required by your Team Leader and/or the business.
- Contributes to the achievements of department goals and objectives.

Health & Safety:

- Ensuring all Health & Safety policies and rules are followed, with all tasks completed in a safety conscious manner.
- Maintaining a safe and clean working environment by complying with Enatel Policy and Procedures.
- Leads by example in all matters relating to Health & Safety.

Environmental:

Enatel is committed to minimising the environmental impact of our operations and products.

- Ensuring Environmental policies and processes are followed.

Person Specification:

	Essential	Desirable
Competencies	• **Functional/Technical Skills** - has the functional and technical knowledge and skills to do the job at a high level of accomplishment. • **Action orientated** - enjoys working hard and is full of energy for the things he/she sees as challenging. • **Process Management** – good at figuring out the processes necessary to get things done. Can simplify complex processes. • **Learning Agility** - the ability to learn quickly in a new environment. • **Problem Solving** – looks for opportunities to resolve issues and solve problems. Learns quickly when facing new problems. • **Integrity and Trust** – is seen as a direct, truthful individual; is widely trusted. • **Ethics & Values** - Has an appropriate and effective set of core values and beliefs and acts in line with those values at all times. • **Cloud Platforms:** Familiarity with at least on of the common cloud platforms like AWS, Azure or GCP. • **Experience**: Successfully architected and established a cloud platform from concept to deployment, including defining the architecture, selecting appropriate technologies, and ensuring scalability, security, and performance.	
Skills, Experience & Knowledge	• Solid understanding of cloud platforms, their abilities as well as shortcomings in at least in one of the following: Azure (preferred), AWS, or GCP. • Proven expertise in designing scalable and secure cloud architecture. • Basic knowledge of IoT protocols, particularly MQTT, and experience with real-time data integration.	

	- Proficiency in API development and integrationExperience with cloud-native services for storage, compute, and networking (e.g., Azure Functions, AWS Lambda, GCP Compute Engine). - Knowledge of containerisation technologies (e.g., Docker, Kubernetes) for deployment and orchestration. - Familiarity with monitoring and logging tools to ensure high availability and performance (e.g., Prometheus, Grafana, or cloud-native equivalents). - Good understanding of data privacy regulations and their application. - Ability to troubleshoot complex cloud-related issues. - Strong analytical thinking to design infrastructure capable of supporting thousands of IoT devices. - Excellent communication skills to work with cross-functional teams, including IoT engineers, software developers, and business stakeholders. - Leadership and teamwork skills to guide cloud development and architectural decisions.	
Qualification / Licenses	- Bachelor's degree in computer science, Information Technology, Engineering, or a related field. Cloud certifications, such as: - Microsoft Certified: Azure Solutions Architect Expert - AWS Certified Solutions Architect – Professional. - Google Professional Cloud Architect.	- Certifications in cybersecurity, such as CISSP (Certified Information Systems Security Professional) or CCSP (Certified Cloud Security Professional), are a plus. - IoT-specific certifications (e.g., IoT Security Foundation Certified) are an advantage.