

Principal Engineer



Key purpose of the role

Develop and govern enterprise continuous delivery platform capabilities aligned with approved Target Architectures



Your responsibilities

- You are a practitioner/team member of the Solution Engineering Capability Community of Practice (CoP).
- Help design and roll out the Operating Model for Cloud across all four of ASX Business units. This will include realignment of existing engineering processes for Design, Build and Deploy.
- Lead delivery of technical documentation, adherence to best practices, and standard application of processes and controls.
- Understand and apply our cloud strategy and vision to ASX's Cloud Foundations program.
- Provide expert technical service and advice for the design and delivery of the Continuous Integration Platform product and service offerings in a hybrid cloud environment.
- Identify, engage and influence stakeholders, including architecture disciplines, asset owners, delivery owners, business stakeholders and SMEs to ensure architecture is optimal, and has the greatest chance of success
- Effectively challenge business leaders to obtain the best technology solutions and fit with our Technology strategy
- Ensure CI/CD design and engineering processes adhere to existing engineering standards, have well defined process controls, and deliver an overall compliance reporting model.
- Provide expert services on contemporary engineering practices including micro service architectures, continuous delivery, continuous integration, multi-cloud usage, and DevSecOps
- Design to Run by ensuring solutions support the operational reliability requirements of critical systems infrastructure.
- Be part of a cross-functional team planning, designing, creating, enhancing, and documenting new and existing system features to deliver agreed value to stakeholders.
- Own your career development path, guide junior team members along their corporate journey
- Be an active member of the Solution Engineering Community of Practice (CoP).



Your experience and qualifications

Must have

- Experience in delivering major programs of work in a complex, agile environment.
- Worked with, and delivered on, enterprise CI/CD capabilities and tools, providing guidance on best practices and helping enable major programs to deliver business value.
- Demonstrated experience working in a Senior Cloud Engineering role in public, private and hybrid cloud environments.
- Experience with running multi cloud environments and a strong understanding of multitenancy and security implications
- Experience in working with cloud deployment and orchestration technologies at scale with strong knowledge of the fundamentals to include service discovery, deployment, monitoring, scheduling, and load balancing.
- A strong understanding of software/cloud engineering principles underpinned by design and development experience with one or more cloud environments such GCP, AWS and VMware
- Knowledge and experience with cloud concepts such as Infrastructure as a Service (IaaS), Platform as a Service (PaaS), and Software as a Service (SaaS)
- Experience of cloud infrastructure automation
- Knowledge of containerisation concepts and implementation considerations
- Experience with complex data structures and semi structured data (JSON, XML)
- Experience with Design Governance, taking responsibility for the end-to-end software design process across a large program of work, collaborating with Architecture, Engineering, Developers, and Suppliers.

Nice to have

- Cloud Engineering, DevOps, or Architecture certifications on AWS or GCP
- Work experience in highly regulated environments with significant compliance and audit activities
- Working in a cross-functional, agile delivery team
- Experience working with Java8+
- Experience with CI/CD tools such as GoCD, GitLab, Cloud Build, or CodeBuild
- Experience in developing Data APIs (REST, GraphQL, gRPC)

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- Experience in building and working with Docker container-based services
- Understand challenges and trade-offs building, deploying, and running solutions in different environments.
- Comfortable presenting at Architecture and Design governance forums.

Skills required for the role

Skill	Skill Indicators & Behaviours
Programming and software development - Developing software components to deliver value to stakeholders.	<ul style="list-style-type: none"> • Designs, codes, verifies, tests, documents, amends and refactors complex programs/scripts and integration software services. • Contributes to the selection of the software development methods, tools and techniques. • Applies agreed standards and tools to achieve well-engineered outcomes. • Participates in reviews of own work and leads reviews of colleagues' work.
Systems Integration and build - Planning, implementing and controlling activities to synthesise system components to create operational systems, products or services.	<ul style="list-style-type: none"> • Provides technical expertise to enable the configuration of system components and equipment for systems testing. • Collaborates with technical teams to develop and agree system integration plans and report on progress. Defines complex/new integration builds. Ensures that integration test environments are correctly configured. • Designs, performs and reports results of tests of the integration build. Identifies and documents system integration components for recording in the configuration management system. • Recommends and implements improvements to processes and tools.
Systems and software lifecycle deployment - Establishing and deploying an environment for developing, continually improving, and securely operating software and systems products and services.	<ul style="list-style-type: none"> • Elicits requirements for systems and software life cycle working practices and automation. • Prepares design options for the working environment of methods, procedures, techniques, tools, and people. • Selects systems and software life cycle working practices for software components and micro-services. • Deploys automation to achieve well-engineered and secure outcomes.
Configuration management - Planning, identifying, controlling, accounting for and auditing of configuration items (CIs) and their interrelationships.	<ul style="list-style-type: none"> • Proposes and agrees the configuration items (CIs) to be uniquely identified with naming conventions. • Puts in place operational processes for secure configuration, classification and management of CIs, and for verifying and auditing configuration records. • Develops, configures and maintains tools (including automation) to identify, track, log and maintain accurate, complete and current information. • Reports on the status of configuration management. Identifies problems and issues and recommend corrective actions.
Requirements Definition and Management - Managing requirements through the entire delivery and operational life cycle.	<ul style="list-style-type: none"> • Defines and manages scoping, requirements definition and prioritisation activities for initiatives of medium size and complexity. • Contributes to selecting the requirements approach. • Facilitates input from stakeholders, provides constructive challenge and enables effective prioritisation of requirements. • Establishes requirements base-lines, obtains formal agreement to requirements, and ensures traceability to source.
Resourcing - Acquiring, deploying and onboarding resources.	<ul style="list-style-type: none"> • Facilitates and supports the execution of resourcing activities in collaboration with managers and teams. • Analyses resource requests to determine tasks, skills and effort required. Creates and communicates open positions internally and externally. Conducts interviews and assessments using a planned format and structure. • Implements internal resource allocation matching skills to tasks. Contributes to transitioning of resources, complying with relevant statutory or external regulations and codes of practice.
Performance Management - Improving organisational	<ul style="list-style-type: none"> • Forms, maintains and leads workgroups and individuals to achieve organisational objectives. • Determines and delegates objectives and task responsibilities to individuals or teams – including people management responsibilities as appropriate. Sets the quality, performance

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performance by developing the performance of individuals and workgroups to meet agreed objectives with measurable results.

and capability targets in line with organisational goals. Monitors performance and working relationships and provides effective feedback to address individual issues.

- Encourages individual development of skills and capabilities in line with team and personal goals. Facilitates the development of individuals by adjusting workload, targets, and team capacity.
- Plays an active role in formal organisational processes such recruitment, reward, promotion and disciplinary procedures.

Methods and tools - Ensuring methods and tools are adopted and used effectively throughout the organisation.

- Provides advice, guidance and expertise to promote adoption of methods and tools and adherence to policies and standards.
- Evaluates and selects appropriate methods and tools in line with agreed policies and standards. Contributes to organisational policies, standards, and guidelines for methods and tools.
- Implements methods and tools at programme, project and team levels including selection and tailoring in line with agreed standards.
- Manages reviews of the benefits and value of methods and tools. Identifies and recommends improvements.

Relationship management - Influencing stakeholder attitudes, decisions, and actions for mutual benefit.

- Identifies the communications and relationship needs of stakeholder groups. Translates communications/stakeholder engagement strategies into specific activities and deliverables.
 - Facilitates open communication and discussion between stakeholders.
 - Acts as a single point of contact by developing, maintaining and working to stakeholder engagement strategies and plans. Provides informed feedback to assess and promote understanding.
 - Facilitates business decision-making processes. Captures and disseminates technical and business information.
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