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# Irwin Affendy b. Mohamad

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## Personal Particulars

Nationality : Malaysian

Date of Birth : 15<sup>th</sup> June 1975

Place of Birth : Sarawak, Malaysia

Marital Status : Married

## Experience & Skills Summary

Extensive experiences in multiple areas within Information Technology in industries such as Banking, Public Sectors, IT Services and Oil & Gas.

These experiences include IT solutioning, pre-sales, technical support, system development & maintenance, infrastructure architecture, implementation and management, strategic planning, tender preparation as well as project management and implementation.

Been heavily involved in multiple transformation projects across different industry. These includes a Land Office System and Business Process Redesign Project and two Digital Transformation Programme in financial industry. The role includes providing System & Infrastructure Design Architecture & Solutions, Business Process Changes & Strategy, Implementation and Operation Planning and other required activities. Are familiar and have used methodologies such as design thinking and agile during these projects.

Also experienced in developing reference architecture for the Infrastructure Domain (on premise & cloud) as well as the overall Enterprise Architecture. Certified as a TOGAF architect. Are also familiar in developing and designing environment for DevOps and Microservices

Possessed a strong academic background as well as practical experiences. Able to converse and communicate ideas and instructions effectively in English and Bahasa Melayu.

Professional experience

**[ Dec 2022 - Current ]**

**Kuala Lumpur**

Ernst & Young, Malaysia

***Technology Consultant (Enterprise Architect)  
Technology Transformation team***

Part of the Technology Transformation Consulting Team for EY Malaysia, Technology Consulting Division. Responsibilities includes:

- Subject matter expert for enterprise architecture and IT infrastructure related domain in a engagement or projects with EY clients
- Develops proposals or solutions based on the understanding of clients' requirements and utilizing EY's methodology and frameworks
- Work with other teams to perform the following (not exhaustive):
  - develop suitable project approach,
  - estimate the project duration, staffing, and cost,
  - analyze project delivery risks and mitigations,
  - craft the right commercial model and Pricing

**[ Nov 2021 - Aug 2022 ]**

**Selangor**

Digi Telecommunications

***Principal, Infrastructure Architect,  
Strategy & Architecture Team***

Part of the Strategy & Architecture Team. Responsibilities includes:

- Architecture, design, modelling and development of IT infrastructure landscape inclusive of infrastructure applications and security
- Developing, driving, maintaining & governing blueprints, roadmap and long-term strategy with respect to IT infrastructure
- Supporting concepts & projects in understanding requirements, doing assessments, plan and implement infrastructure services
- Participate in Architecture Review committees and other architecture governance role as required
- Provide technical guidance and leadership with partners during project implementations. Among the project involves include:
  - Development of Digi Cloud landing zones in AWS
  - Replacement of the Business Support system (BSS)

**[ Oct 2018 - Nov 2021 ]**

**Kuala Lumpur**

Kumpulan Wang Simpanan Pekerja (KWSP), Malaysia

***Infrastructure Architect,  
Enterprise Architecture Team***

Part of the Enterprise Architecture Team for KWSP Technology Division. Responsibilities includes:

- Responsible for all architecture and design decisions involving infrastructure for all technology solutions
- Ensuring the fitness for purpose of all architecture solutions and decisions in meeting the stakeholders expectation and architectural requirements
- Proposing improvements and / or alternatives to current technology, methodology or process in order to enhance the current environment
- To manage and support the Enterprise Architecture Framework and its governance processes
- To participate in the Enterprise Architecture Solution Forum and Enterprise Architecture Council according to the Enterprise Architecture Governance Framework
- To provide technology consultancy services to other departments and divisions

Participated extensively in KWSP Digital Transformation Programme as part of the core project team. Responsibilities includes:

- Provide technology consultancy services to the project team
- Involved in the creation and improvement of business operating models, processes and organisation structure in line with technology adoption
- Evaluate technology solutions required to implement the initiatives under the Digital Transformation Programme

**[ Sept 2017 - Sept 2018 ]**

**Cyberjaya**

Prestariang Technical Services, Malaysia

***Core Infrastructure Architect,  
SKIN Project Infrastructure Team***

Part of the Project Team for Sistem Kawalan Imigresen Nasional (SKIN) project for Malaysian Immigration Department. Responsibilities of the Core Infrastructure Architect includes:

- Analyzing the Business, Technical, Functional, Deployment and Operational requirements,
- Translating the requirements to technology solutions,
- Plan and architect the Infrastructure Solution by analyzing and

evaluating various technology that fit the project requirements,

- Provide technical leadership and strategies for solutioning, architecture, implementation and support,
- Partner architects from other pillars to design the infrastructure architecture,
- Formulate infrastructure architecture and detailed design,
- Aligning implementations with industry best practices.
- Document infrastructure architecture, detailed designs, build, security, and other required documents.
- Work with project managers to understand and meet process requirements, deliverables and deadlines.
- Develop and own infrastructure solution for major projects under Enterprise Service accounts

Technology domain area of core Infrastructure under my direct responsibilities include:

- Compute and virtualisation
- Storage and Backup
- Enterprise Monitoring
- Endpoint Management

**[ May 2016 - August 2017 ]**

**Cyberjaya**

Hewlett Packard Enterprise, Malaysia

***Solution Architect,***

***Malaysia Global Account Technology Consultant***

Responsibilities includes:

- Develop and own infrastructure solution for major projects under Enterprise Service accounts
  - Have worked on projects with Nokia, Rolls Royce and Deutsche Bank accounts.
- Work with the engineering teams to implement proposed infrastructure solution
- Develop and review technical documentations for infrastructure projects
- Works with internal teams to provide costing and resource requirements for infrastructure projects
- Develop, review and implement standards for infrastructure domains within the account

**[ March 2015 - Dec 2015 ]**

**Kuala Lumpur**

Petronas ICT Sdn. Bhd.

***Enterprise Architect (Infrastructure),  
Digital Innovation, Strategy & Architecture,***

Responsible for the design and architecture of Petronas Group IT Infrastructure. Major responsibilities includes:

- Own, develop and maintain the overall Petronas IT Architecture framework and documentations as part of the Enterprise Architecture Group
- Develop, maintain and implement the IT Infrastructure Masterplan for Petronas Group according to the Enterprise Architecture
- Identify and owned projects required to deliver the IT Masterplan
- Ensure individual projects solution is in compliance with the IT Enterprise Architecture and the IT Masterplan
- Research and identify new technologies and solutions to incorporate and improve the IT Architecture Landscape in Petronas
- Liaise with business units to understand their IT requirements and needs. Develop and propose solutions based on these requirements
- Consult with business units to develop and update their own IT Architecture & Planning framework and documentations.
- Projects involved were:
  - Redesign of Group Backup & Recovery Infrastructure Architecture
  - Development Petronas Cloud Infrastructure Strategy & Architecture
  - Design and implementation of Storage As A Service (SAAS) Architecture
  - Design and implementation of Remote Broadband Connectivity
  - Research in new technologies such as Software Defined Infrastructure (Compute, Network, Storage, DC), Big Data Infrastructure, Cloud Computing and Augmented Reality.

**[ May 2010 - Feb 2015 ]**

**Kuala Lumpur**

Malayan Banking Bhd.

***Infrastructure Architect,  
Integration, Technology & Infrastructure,  
IT Transformation Programme***

Assigned as Solution Architect for strategic and enterprise infrastructure projects under the IT Transformation Programme. Main responsibilities include:

- To develop the technology plan for enterprise wide infrastructure upgrade roadmap as part of the Transformation Programme
- To ensure individual projects solution is in line with the technology

plan and also adhere to the Infrastructure Domain Architecture as specified by the Enterprise Architecture Team

- Involved in individual projects to ensure the solutions are implemented as per the design. Will need to work with the project manager to ensure the proper implementation by the vendor. Major projects previously and currently involved are:
  - Unix Solaris Consolidation and Virtualisation Project
  - Unix AIX Consolidation and Virtualisation Project
  - Data Centre LAN & WAN Network Upgrade Project
  - Maybank Backsourcing Initiative
  - Maybank Regional WAN Enhancement Project
- To develop new processes as well as review and amend existing processes to ensure smooth operation of the infrastructure services after the technology changes caused by the Transformation Programme
- Tasked as the Infrastructure Domain Subject Matter Expert (SME) for the development of Enterprise Architecture Framework as well as the Reference Architecture for Infrastructure Domain
- Involved in the evaluation and assessment for all IT initiatives as part of Enterprise Architecture Governance processes.

***Manager, Network Planning & Performance,  
Network Engineering,  
Network Services Department  
(Also attached to  
Enterprise Architecture(EA) Team,  
IT Transformation Programme )***

Main responsibilities includes :

- Network Enterprise Architecture (as part of EA Team)
  - Responsible for evaluating and developing overall strategy in the planning and implementation of network technologies for the bank.
  - Responsible for developing and maintaining the Enterprise Network Architecture blueprint.
  - Responsible for the translation of strategic business requirements into identifiable network deliverables and document a strategy to achieve business objectives.
  - Evaluate and recommend the design, development and maintenance of network strategy roadmap to guide investments in network infrastructure, operations and people.
- Network Planning & Solutioning
  - Research, review and recommend new strategies or technologies to improve current network architecture
  - Develop and propose solutions (technology/ process) for new requirements or challenges brought up by network users within the

network domain

- Implement and manage network infrastructure projects to improve network design architecture and standards as well as to ensure a reliable network service and the smooth running of network operations
- Plan and strategize the actual implementation of network projects in collaboration with business users, application team and vendors for all network projects
  
- Capacity, Performance & Process Management
  - Review and validate network capacity and performance reports to ensure network operation stability
  - Propose and implement recommendations based on reports and trending analysis on network capacity & performance for network infrastructure
  - Review and validate the availability and performance of network services and propose action plans to ensure better management of network services to ensure their availability and performance meets or exceeds the agreed service level
  - Develop new or revise current processes and procedures for network services to streamline and ensure efficiency
  
- Budget & Cost Management
  - Prepare and justify the draft annual network budget together with proposed network initiatives for budget approval.
  - Track network projects expenditure to ensure they are delivered within budget
  - Review and validate the billing for the network services
  - Propose and justify cost reduction, avoidance and optimization strategy & plan based on the assessment on the current network.

**[ January 2009 - May 2010 ]**

**Selangor**

HeiTech Managed Services Sdn. Bhd.

**Senior Solution Architect (Network),  
Presales & Proposal Management**

- Responsible for designing network solution for HeiTech's customer. This includes analyzing the customer's current and future needs, recommending strategies and technologies and finally coming up with a complete proposal inclusive of equipment, services and other resources to fulfill the customer's requirements and expectations. Major tenders / proposals includes:
  - LAN & WAN upgrade for Suruhanjaya Sekuriti Malaysia
  - Data Centre & Network Relocation for POS Malaysia

- LAN & WAN migration & upgrade for Jab. Hal Ehwal Veteran, MINDEF
  - LAN & WAN installation for Jab. Latihan Khidmat Negara, MINDEF
  - Wireless LAN & WAN installation at RapidKL bus depots & HQ for Syarikat Prasarana Negara Berhad
  - LAN & WAN installation for Jab. Perhilitan, NRE
  - LAN & WAN installation for Perbadanan Pengurusan Sisa Pepejal, KPKT
  - Network Security Upgrade for Jab. Pendaftaran Negara, KDN
- Responsible for providing the technical solution, cost pricing and other documentations for submission in response to a tender.
  - Providing technical support to the sales team in term of presentations, proof of concept and technical demonstration to the customers.
  - Liaising with equipment vendors (principal manufacturers, distributors, etc) in order to provide the best and correct equipment at reasonable price.
  - Lead and support implementation, management and maintenance of delivered solution to the customer
  - Provides technical support for the sales team during sales process in order to help close sales opportunity with clients
  - Facilitate workshops, seminars and other engagements with clients in order to develop understanding of their environment for the purpose of solution development
  - Provide technical training for both internal and external parties on the solution developed.

**[ May 2005 – Dec 2008 ]**

**Kuala Lumpur**

Malayan Banking Berhad

***Executive,***

***Network Strategy, Project, Security & Performance Management,***

***Network Service Management***

***(previously known as IT Outsourcing Governance, Network)***

- Responsible for the governing the Outsourcing Vendor to ensure the operation and management of the network infrastructure is efficient and effective. This includes task such as network performance monitoring, SLA validations, contract, billing & asset management.
- Part of the escalation team within Maybank for problems and issues encountered by Maybank with the Outsourcing Vendor within the network space
- Tasked to research, formulate and implement strategic initiatives with



regard to the Network Infrastructure to improve the performance and management of the current infrastructure. This also includes planning for budgets and other resources required to implement those initiatives.

- Review standards, process and procedures within the network space to improve and update the ones currently in use.
- Provide consultation services to Business Driven Projects & Initiatives with regard to the Network Infrastructure. This includes ensuring network related issues & standards are addressed and complied with. Among the major projects that I have been involved with are:
  - STAR Project (Lotus Notes centralisation)
  - BSS CARE Rollout (Banking Front End System)
  - Enterprise CITRIX Architecture
  - M2U Refresh
- Responsible for reviewing and approving any changes or upgrades to the Network Infrastructure via approval of design documentations and network diagrams.
- Act as Maybank Project Manager for any Network Projects or Initiatives. Responsible for ensuring that the Outsourcing Vendor successfully completes the project within the allocated resources and achieve the desired objectives. The initiatives / projects that I have acted in this capacity are:
  - Branch Network Refresh Project.
  - Offbank IPVPN Project
  - Firewall Migration Project
  - Circuit Migration Project
  - Internet Consolidation
- Responsible for the managing and resolving operational issues related to any network security device (firewalls, ips, ids) as reported by Outsourcing Vendor. This includes reviewing the root cause analyses, resolutions (short & long term) and also prevention strategy. Also review & monitor the equipment performance using the reports provided.

**[ Feb 2003 - May 2005 ]**

Ministry of Natural Resources and Environment, Malaysia  
(previously known as Ministry of Land & Co-operative Development)

***Pegawai Sistem Maklumat, Pasukan Projek E-tanah  
(Information System Officer, E-Tanah Project Team)***

- Part of the core Project Team entrusted to design & propose a

complete and integrated IT solution for all land offices throughout Semenanjung Malaysia

- This includes collecting and compiling the requirement from the public, users, managements, Land Acts and other related regulations and incorporating all these inputs into the design of the solution
- Responsible for preparing a complete technical requirement (hardware and software) based on the proposed solution for the E-Tanah Project
- Heavily involved in preparing the tender and contract document required for the E-tanah Project
- Also responsible for the design, implementation and maintenance of the network and security infrastructure of the E-tanah Project

***Pegawai Sistem Maklumat, Bahagian Teknologi Maklumat Kementerian  
(Information System Officer, Ministry's Information Technology Division)***

- Manage and coordinate the preparation, documentation and compilation of the Information Strategic Plans (ISPs) of the Ministry and all Departments & Divisions under the Ministry
- Responsible for the management, enhancement and development of the Ministry's Intranet Portal and related applications
- Coordinate and liaise with Department of Accountant General for the implementation and maintenance of the E-Perolehan Project within the Ministry and all Departments within the Ministry
- Part of the E-tanah Project committee which coordinates and manages the E-tanah Project before the creation of the E-tanah Project Team. Responsibilities include the preliminary studies and planning required for the initial E-tanah proposal. Task also includes the setting up of the E-Tanah Project Team.

Education

***[ 1999 - 2002 ] Uni. Malaysia Sarawak (UNIMAS)***

Bachelor of Information Technology with Honors (Network Computing)

- Achieve a CGPA of 3.45 / 4.00
- Awarded Anugerah Pelajar Cemerlang Fakulti Teknologi Maklumat 2001 / 2002"
- Awarded Dean's List for:
  - Semester 1 & 2 for Year 1999 / 2000
  - Semester 1 for Year 2000 / 2001
  - Semester 1 for Year 2001 / 2002

**[ 1993 - 1994 ] UNSW Foundation Studies Centre**

UNSW Foundation Studies Certificate

**[ 1992] St. Joseph Secondary School**

Sijil Pelajaran Malaysia (SPM)

- Achieved Aggregate : 9 unit

**[ 1990] St. Joseph Secondary School**

Sijil Rendah Pelajaran Malaysia (SRP)

- Achieved Aggregate : 5 unit

References

***Abdul Patas bin Kamaludin***

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Network, Field Services, Helpdesk Management Division,  
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