

Perancangan infrastruktur teknologi informasi yang adaptif studi kasus perusahaan jasa dan produk ti p t xyz = The design of adaptive information technology infrastructure a case study it product and solution p t xyz

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Abstrak

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Suatu organisasi memerlukan infrastruktur teknologi informasi (TI) untuk mendukung kebijakan sistem informasi di atasnya sebagai bagian dari peningkatan keunggulan kompetitif organisasi tersebut. Dalam pemenuhan keunggulan kompetitif organisasi, TI dituntut sejalan dan mampu mendukung (support) bahkan diharapkan menjadi pendorong (key enabler) bisnis. Kebutuhan bisnis sendiri bergerak lebih dinamis dan selayaknya mampu diikuti oleh infrastruktur TI. Perusahaan PT XYZ adalah salah satu korporasi terkemuka tingkat nasional bidang jasa dan produk TI yang telah mengimplementasikan infrastruktur teknologi informasi untuk mendukung proses bisnis.

Penelitian ini bertujuan untuk membangun rancangan infrastruktur TI yang bersifat adaptif sebagai sebuah enterprise architecture berdasarkan kerangka kerja The Open Group Architecture Framework (TOGAF) Architecture Development Method (ADM) pada organisasi dimana penelitian dilakukan. Konsep penelitian yang dilakukan adalah kualitatif melalui studi literatur dan pengumpulan data melalui wawancara serta observasi.

Enterprise architecture yang dibangun pada penelitian adalah representasi arsitektur bisnis, arsitektur data, arsitektur aplikasi dan arsitektur teknologi dipandu oleh prinsip-prinsip yang diinginkan oleh organisasi. Pada arsitektur bisnis disimpulkan perlu penerapan tata kelola TI. Arsitektur data mengusulkan pemanfaatan tingkat lanjut terhadap aset data yang dimiliki perusahaan untuk menunjang pencapaian bisnis dan pada bagian arsitektur aplikasi menghasilkan beberapa usulan peningkatan atau implementasi aplikasi baru berdasar identifikasi masalah yang ditemukan. Di bagian arsitektur teknologi, untuk mendukung konsep infrastruktur yang adaptif, penelitian merekomendasikan penerapan infrastruktur berbasis layanan dengan virtualisasi, penggunaan layanan cloud computing dan unified communication.

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ABSTRACT

An organization needs infrastructure of information technology (IT) to support information systems policies thereon as part of improving the organization's competitive advantage. In fulfillment of the organization's competitive advantage, IT prosecuted in line and able to support (support) even expected to be the driving force (a key enabler of) business. Own business needs and should move more dynamically capable followed by IT infrastructure. PT XYZ is one of the leading national IT services and products that have implemented the information technology infrastructure to support business processes.

This study aims to establish design adaptive IT infrastructure as an enterprise architecture framework based

on The Open Group Architecture Framework (TOGAF) Architecture Development method (ADM) in the organization where the study was conducted. The concept is a qualitative research conducted through the study of literature and data collection through interviews and observation.

Enterprise architecture is built on research is a representation of the business architecture, data architecture, application architecture and technology architecture guided by the principles desired by the organization. In business architecture inferred need IT governance implementation. Data architecture proposes the use of advanced data assets owned perusahaan to support the achievement of business and on the application architecture produces some of the proposed improvement or implementation of new applications based on the identification of problems found. In the technology architecture, to support the concept of adaptive infrastructure, the study recommends the implementation of service-based infrastructure with virtualization, the use of cloud computing services and unified communication.;An organization needs infrastructure of information technology (IT) to support information systems policies thereon as part of improving the organization's competitive advantage. In fulfillment of the organization's competitive advantage, IT prosecuted in line and able to support (support) even expected to be the driving force (a key enabler of) business. Own business needs and should move more dynamically capable followed by IT infrastructure. PT XYZ is one of the leading national IT services and products that have implemented the information technology infrastructure to support business processes.

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