

Perancangan infrastruktur yang adaptif pada sistem integrated trading : Studi kasus PT XYZ = The design of adaptive infrastructure of integrated trading system : A case study at PT XYZ

Deskripsi Lengkap: <https://lib.ui.ac.id/detail?id=20423893&lokasi=lokal>

Abstrak

Kesempatan bertransaksi saham secara remote membuka business channel baru bagi brokerage atau anggota bursa. Regulasi pun tidak hanya membatasi kemungkinan penggunaan hanya untuk kalangan internal perusahaan yang tersertifikasi, namun juga dimungkinkan tiap individu yang memiliki akun di perusahaan anggota bursa (online trading). Oleh karena itu, infrastruktur TI memegang peranan penting dalam menunjang operasional bisnis. Infrastruktur TI yang terintegrasi, yang mendukung operasional baik untuk internal maupun publik, menjadi pokok penelitian. Dari beberapa insiden yang pernah terjadi dan akibat yang dihasilkan, penelitian mulai dikembangkan. Sementara di sisi lain, perbandingan terhadap perusahaan sejenis yang sudah memiliki produk online trading memperlihatkan keunggulan yang bisa didapatkan dari kesiapan implementasi infrastruktur yang terintegrasi.

Berdasarkan pokok penelitian tersebut di atas, penelitian ini bertujuan untuk merancang infrastruktur teknologi informasi yang terintegrasi dan adaptif berdasarkan The Open Group Architecture Framework (TOGAF) Architecture Development Method (ADM) dengan studi kasus PT. XYZ. Metode penelitian menggunakan konsep penelitian kualitatif melalui studi literatur, melakukan wawancara dan observasi.

Hasil dari penelitian adalah 5 usulan aplikasi baru berdasarkan 15 prinsip arsitektur yang disimpulkan. Dari prinsip-prinsip arsitektur yang sama pula, infrastruktur diusulkan mengalami konversi dari physical ke private cloud yang berbasiskan virtual machine. Konversi dilakukan agar infrastruktur memiliki sifat failover dan redundancy agar mendukung adaptifitas arsitektur yang diharapkan.

The opportunities of equity trading remotely, known as Remote Trading, open a new business channel for brokerage members. Not only limited by certified internal employee access to exchange system, regulation also accomodate each individual who has account in organization have a same right to access exchange directly to have trading activities on behalf of themselves, later on called Online Trading. Therefore, IT infrastructure plays an important role in supporting business operations. Integrated IT infrastructure, which supports operational both for internal and public, the subject of research. Based on several incidents that have occurred and its result, the research was developed. While on the other hand, comparison to similar companies that already have demonstrated the advantages of online trading products that can be obtained from the readiness of implementing integrated infrastructure.

Based on the mentioned basic research, this research aims to design an integrated information technology infrastructure and adaptive by The Open Group Architecture Framework (TOGAF) Architecture Development Method (ADM) with a case study of PT. XYZ. The research method uses the concept of qualitative research through the study of literature, conducting interviews and observations.

Results of the study was 5 proposed new application is based on 15 principles of architecture concluded. Of the principles of the same architecture as well, the proposed infrastructure experienced a conversion from physical to a private cloud based virtual machine. Main idea of conversion are architecture have characteristics of failover and redundancy, so that adaptivity infrastructure achieved.</i>