

UNIVERSITAS BINA NUSANTARA

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ANALISIS DAN IMPLEMENTASI TEKNIK FAILOVER DAN FILTERING CONTENT PADA PT. BUDIMAN SEJAHTERA DEVELOPMENT

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ABSTRAK

Tujuan penelitian ialah menganalisis dan mengimplementasikan teknik *failover* dan *filtering content* pada jaringan PT. Budiman Sejahtera Development menggunakan *router* mikrotik, sehingga jaringan pada PT. Budiman Sejahtera Development dapat bekerja lebih baik. Metode penelitian meliputi analisis berupa survei dan observasi terhadap sistem yang sedang berjalan, studi literatur serta melakukan *interview* kepada IT Engineer PT. Budiman Sejahtera Development. Hasil yang dicapai dari penelitian ini adalah rancangan topologi jaringan baru, penerapan teknik *failover* untuk memberikan *backup link* terhadap ISP utama, jika terjadi putus koneksi dan *filtering content* untuk membatasi akses terhadap situs tertentu. Simpulan dari penelitian ini adalah dengan menggunakan teknik *failover* terhadap dua jaringan internet, akan memberikan *backup* pada jalur koneksi internet utama. Sehingga saat jalur koneksi utama terputus, jalur cadangan akan langsung mem-*backup* secara otomatis, serta penerapan *filtering content* terhadap situs tertentu akan memberikan kinerja yang baik terhadap pegawai PT. Budiman Sejahtera Development.

Kata Kunci : Mikrotik, Failover, Filtering Content

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**ANALYSIS AND IMPLEMENTATION OF FAILOVER TECHNIQUES
AND FILTERING CONTENT AT PT. BUDIMAN SEJAHTERA
DEVELOPMENT**

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ABSTRACT

The research objective is to analyze and implement the failover techniques and filtering content on the network of PT. Budiman Sejahtera Development using mikrotik router. So the network at PT. Budiman Sejahtera Development can work better. Research methods include the analysis in the form of surveys and observations of the current system, the study of literature and conduct interviews to IT Engineer PT. Budiman Sejahtera Development. The result of this research is to design a new network topology, apply the failover techniques to provide a backup link to the main ISP in case of breaking up the connection and content filtering to restrict access to certain sites. The conclusions of this study is to use failover techniques against two internet networks, will provide backup to the main internet connection point. So that when the main connection point is lost, the second link will instantly backup automatically. And the implementation of content filtering to specific sites will give a good performance against the employees of PT. Budiman Sejahtera Development.

Key Word : Mikrotik, Failover, Filtering Content