

DAFTAR ISI

HALAMAN PENGESAHAN.....	Error! Bookmark not defined.
HALAMAN PENGESAHAN.....	Error! Bookmark not defined.
PERNYATAAN BEBAS PLAGIARISME	Error! Bookmark not defined.
HALAMAN PERNYATAAN PERSETUJUAN PUBLIKASI PROYEK AKHIR UNTUK KEPENTINGAN AKADEMIS.....	Error! Bookmark not defined.
ABSTRAK.....	Error! Bookmark not defined.
ABSTRACK	Error! Bookmark not defined.
KATA PENGANTAR	Error! Bookmark not defined.
DAFTAR ISI	x
DAFTAR GAMBAR	Error! Bookmark not defined.
DAFTAR TABEL	Error! Bookmark not defined.
DAFTAR SINGKATAN.....	Error! Bookmark not defined.
DAFTAR ISTILAH	Error! Bookmark not defined.
BAB Error! Bookmark not defined. PENDAHULUAN	Error! Bookmark not defined.
1.1 Latar Belakang.....	Error! Bookmark not defined.
1.2 Tujuan Penelitian	Error! Bookmark not defined.
1.3 Rumusan Masalah	Error! Bookmark not defined.
1.4 Pembatasan Masalah	Error! Bookmark not defined.
1.5 Metodologi Penelitian.....	Error! Bookmark not defined.
1. Studi Literatur	Error! Bookmark not defined.
2. Riset dan Aplikasi.....	Error! Bookmark not defined.
1.6 Sitematika Penulisan.....	Error! Bookmark not defined.
1.7 Jadwal Pengerjaan Proyek Akhir.....	Error! Bookmark not defined.

BAB II MEMBUAT VoIP DENGAN MEMANFAATKAN LAYANAN VPN AS A

SERVICE PADA OPENSTACK..... Error! Bookmark not defined.

2.1 VoIP..... **Error! Bookmark not defined.**

2.1.1 IP Telephone..... **Error! Bookmark not defined.**

2.1.2 TCP/IP Model dalam VoIP..... **Error! Bookmark not defined.**

2.1.3 TCP/ IP Layer..... **Error! Bookmark not defined.**

2.1.4 Perbedaan TCP/IP **Error! Bookmark not defined.**

2.2 Asterisk **Error! Bookmark not defined.**

2.3 Cloud Computing **Error! Bookmark not defined.**

2.4 OpenStack Juno **Error! Bookmark not defined.**

2.5 Virtual Privat Network as a Service (VPNaaS) **Error! Bookmark not defined.**

BAB III PERANCANGAN DAN IMPLEMENTASI..... Error! Bookmark not defined.

3.1 Block Diagram OpenStack **Error! Bookmark not defined.**

3.2 Topologi Fisik..... **Error! Bookmark not defined.**

3.3 Topologi Logic..... **Error! Bookmark not defined.**

3.4 Diagram Flowchart..... **Error! Bookmark not defined.**

3.5 Spesifikasi Perangkat Implementasi..... **Error! Bookmark not defined.**

3.5 Persiapan Instalasi..... **Error! Bookmark not defined.**

3.6.1 Instalasi di Controller Node..... **Error! Bookmark not defined.**

3.6.2 Instalasi di Compute Node..... **Error! Bookmark not defined.**

3.6.3 Instalasi di Network Node **Error! Bookmark not defined.**

3.7 Instalasi Dan Konfigurasi Komponen OpenStack Dimasing-Masing Node

Error! Bookmark not defined.

3.8 Instalasi Platform Dan Software Pendukung VoIP..... **Error! Bookmark not defined.**

3.9 Instalasi Dan Konfigurasi Free PBX Di Ubuntu Server **Error! Bookmark not defined.**

BAB V KESIMPULAN DAN SARAN..... Error! Bookmark not defined.

DAFTAR PUSTAKA..... Error! Bookmark not defined.

LAMPIRAN A Konfigurasi di Controller Node

LAMPIRAN B Konfigurasi di Compute Node

LAMPIRAN C Konfigurasi di Network Node

LAMPIRAN E Daftar Riwayat Hidup