Neutronica IT Services Corp.
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Mikrotik Case Study

Royal Cargo

Industry	World Wide Shipping Company
Location	RCA Building, Sta. Agueda Avenue, Pascor Drive Parañaque City, Metro Manila 1704 - Philippines
No. of user in the network	800 to 1,000
Website reference	https://www.royalcargo.com/philippines/

Problem:

- Un-Maximized bandwidth caused by lack of ISP load balancing.

- Cargo wise, emails and office 365 separated on different ISPs which makes ISP fail-over impossible.

- Un secured firewall- ports vulnerable to possible network attacks.

- Email and cargo wise application separation is done by tracing its server public IP's one by one which makes it ineffective whenever cloud server updates public IP.

- Out-dated core router needs to upgrade.

- Trial and error rules had been tested by prior network Engineer.

- Company wants to avoid downtime.

- Company wants to have email updates on which ISP is down or up.

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Solution:

- Configure advanced bandwidth

  With the advanced feature like dual limitation, parent & child queue with priority, we manage the client bandwidth and allot Committed and Maximum bandwidth per each important applications that they use over the internet. Traffic prioritization also is activated.

- We configure bandwidth management with priority bandwidth for cargo wise, emails and office 365.

- Firewall security

  To avoid network attacks on DNS and Web proxy. DDNS attack, port scan and other network attacks.

- Layer 7 Traffic tracing.
  As most of Server's/Website

- Upgrade Core Router.
  The client's router is deployed for more than 4 years, technology is fast upgrading and client wants to be sure that they will not experience down time caused by hardware breakdown.

- Train personnel's to handle the post-deployment initial support.

- We configure VRRP to avoid downtime problem, automatic switch when one device

- WAN down time Auto Email notification

  We configure email alerts to notify technical personnel's when one of their ISP's is down or up.

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MikroTik
PHILIPPINES

RB1100AHx4 (DUDE Edition) (Core Router and Back Up Router)

MikroTik
PHILIPPINES

Current Network Structure

GLOBE

PT&T

PLDT

Main Router

Back Up

LAN

Local Server

GLOBE		Local Server	
PT&T		LAN	
PLDT		VRRP	