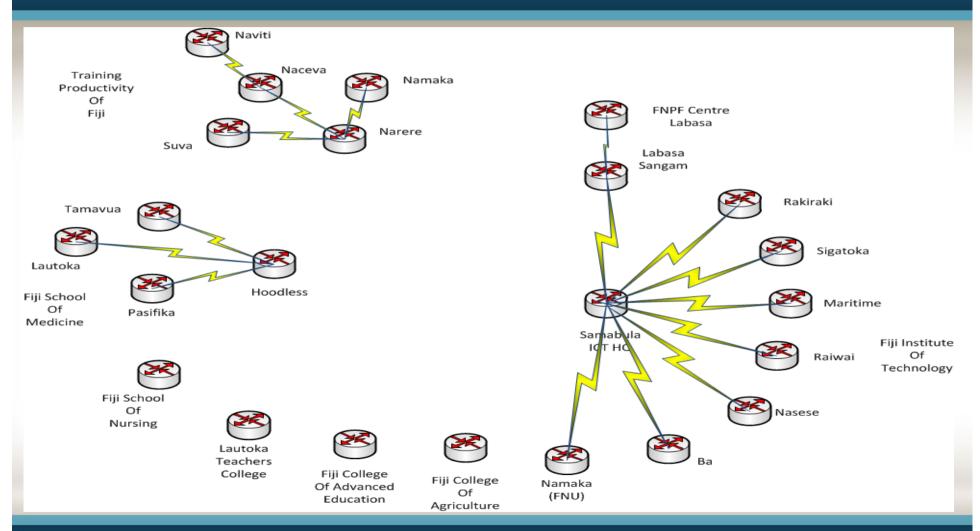
Challenges with Campus Network (FNU)

PacNOG 11th Educational Workshop & Training for IP/ISP Network Operators

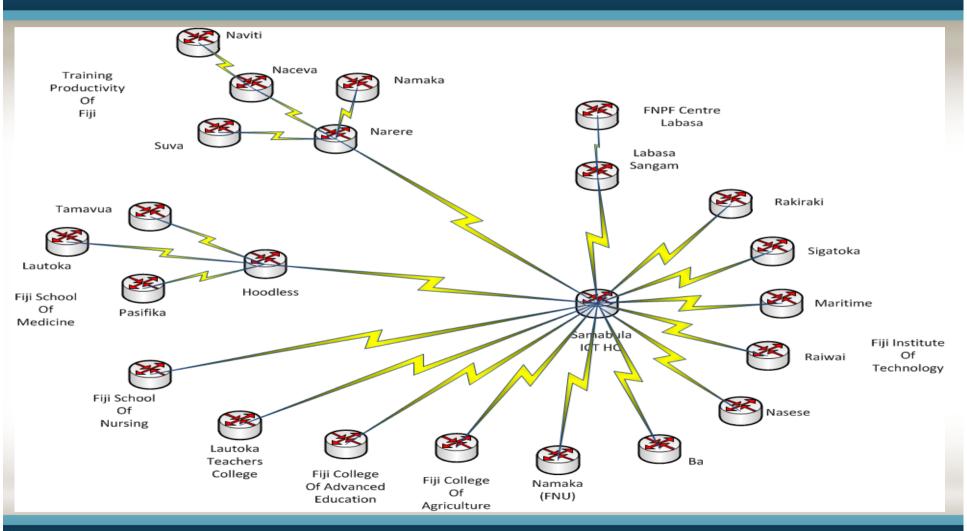
A little background on FNU

- FNU Fiji National University is the largest university in the South Pacific, formed in 2010 with the merger of Fiji's 7 Major institutions.
- The University comprises of 5 colleges namely College of Engineering Science & Technology, College of Agriculture Forestry & Fisheries, College of Business, Hospitality & Tourism, College of Humanities & Education and College of Medicine, Nursing & Health Science.
- We have a total of around 30,000 students with approximately 2,500 staffs that are the users of FNU network.
- Campuses are located all over Viti Levu and Vanua Levu therefore a total of 24 sites (Campuses).

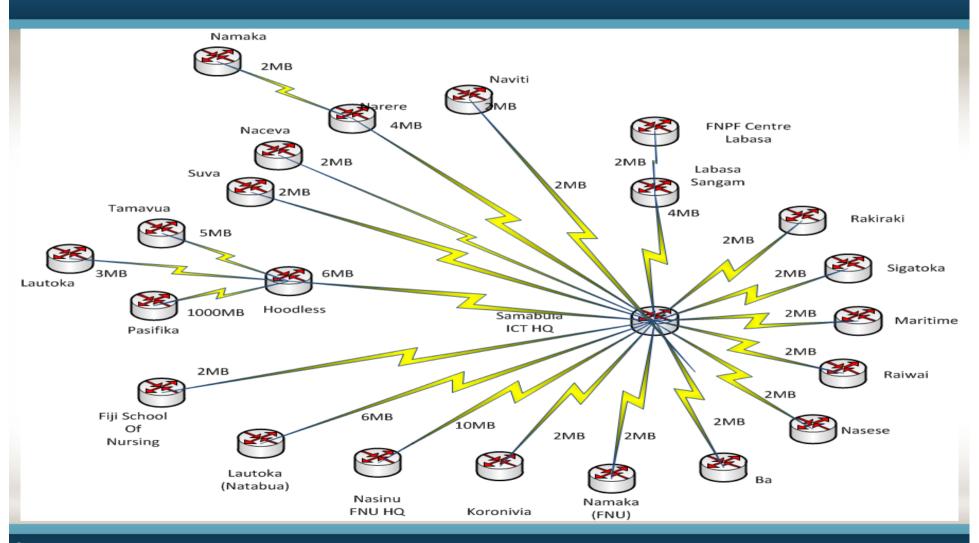
Various Institute Networks



FNU's Network after Merger



FNU's Current Network



How to Manage?





Challenges with Current Network



Managing and Maintaining

Monitoring

- Banwidth Usage
- Link contention
- Quality of Service
- Application performance

Trouble Shooting Network Issues

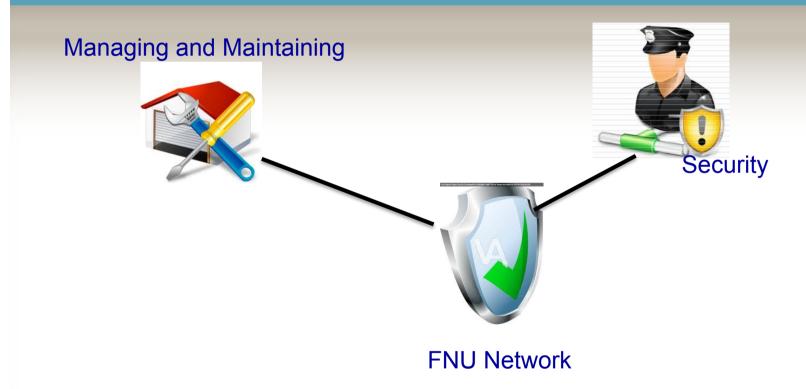
- Cable Loop
- Limited Connectivity

Implementation & Maintenance

- Implement / Upgrade Hardware
- Firmware upgrade
- Bandwidth Upgrade

Challenges with Current Network

Cont'd



Security

Firewall Upgrade (Policy and Software)

- New patches and fixes
- New features
- Stability
- ACL

Filtering (Web & Email for spam)

Avoiding Bandwidth Flooding

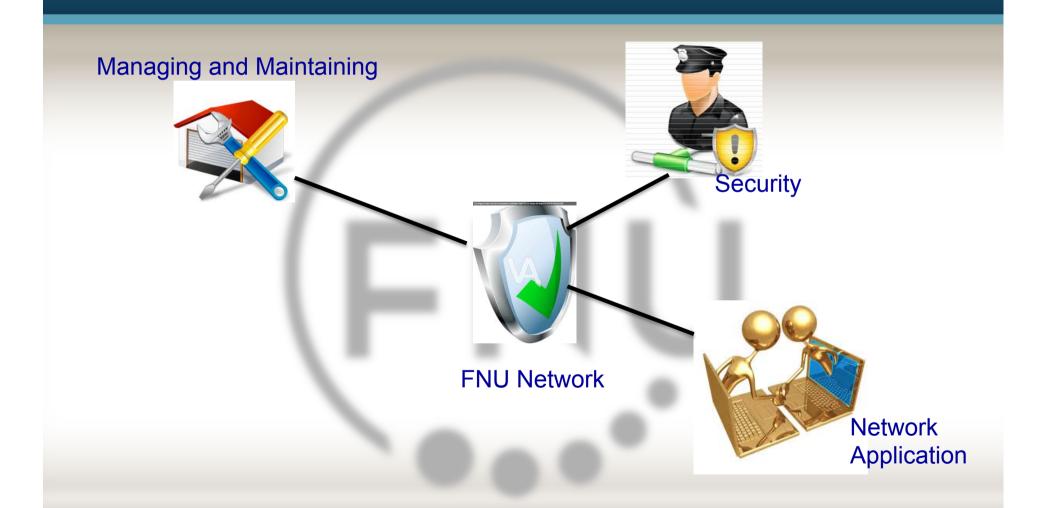
Update Domain Policy

- Flash drives
- User rights

Proxy Anonymizers

- TOR Browser
- UltraSurf

Challenges with Current Network



Network Based Applications

Performance

- Requests from different sites
- Resource Contention
- Multiple Application
- Demand for growth





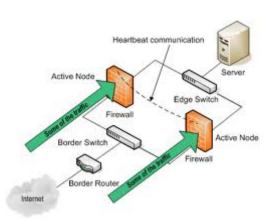


Future Upgrades

Firewall Redundancy

DR Setup





A little about ME

- I am Amit Krishneel Prasad and I am the Principal Network Administrator for FNU.
- My work experience in the IT field ranges from being a cable guy to PABX Guy, Network Support Technician to Network Administrator and now Principal Network Admin for FNU.
- I have gained wide range of expertise in IT field (Bits & Pieces). I have hands on knowledge in windows platforms (Windows 2003, 2008), Email Platform (Exchange 2003, 2010), Security (ISA 2006, TMG (Forefront), LDAP (MS-AD), DNS, Networking Routing, Switching & Cabling)
- My Academic Qualification aren't that colorful but I have the following: MCP, MCSA, MCTS, VCP, CCNA and a Diploma in Electronics

Thank You for Being Patient!!!

