



DNS-SEC FJ ccTLD 2024



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Fiji Economic Status

Government

Formed by 3 Political Parties

Coalition Government

2nd year with National Elections
2026

GDP

Service Sector by GDP

- a) {Tourism – 40%, Finance, Telecommunication, Professional Services} – 70%
- b) Manufacturing, textiles, Wholesale Construction, Mineral Bottle Water, Mining- 21%, Agriculture - 8.2%

Opportunities

Current

- a) Tabua Google Landing – 200 Million 3600 jobs
- b) StarLink License Remote Island Connectivity
- c) Review 2015 National Cybersecurity Strategic
- d) CyberCrime Act 2021 align Budapest
- e) Digital Connectivity and Cybersecurity Partnership USAID
- f) Cisco, USP, TFL partnership for Cybersecurity Hub

Challenges

Current

- a) Reducing our 10 Billion FJD Debt, 80% of GDP
- b) High Inflation of Goods and Services
- c) Local Skills Shortages due to migration



The University of the South Pacific

12 countries - Cook Islands, Fiji, Kiribati, Marshall Islands, Nauru, Niue, Samoa, Solomon Islands, Tokelau, Tonga, Tuvalu and Vanuatu.

FJ Domain Services

- a) FJ Domain Services – Registry and a Registrar
- b) 1990 - Internet Assigned Numbers Authority Organization delegated the FJ TLD
- c) Customer Registrations started in 1991 and is slowly progressing 32 years later. fj – USP, school.fj –TFL, gov.fj and govnet.fj – ITC
- d) The First Organization to use the Internet in Fiji; satellite radio.
- e) Initial Platform
 - Red Hat Linux
 - Perl & PHP
 - Development In-House

Professional ICT Services

- a) Cisco Academy Certification Training
- b) Professional Labs – Training
- c) Cisco, USP, TFL – Cybersecurity Hub

FJ TLD Challenges & Journey

Challenges

Updating Linux OS
Application Patching
Knowledge Transfer
Documentation
Replication
No customer portal
No payment gateway services
TLD Standards
Policies
Technology Trends
Training
Technical Training
Technical Debates

Planning

- Windows 2012 AD Upgrade 2017
- Windows 2016 PKI 2020
- Windows 2019 AD Upgrade 2020

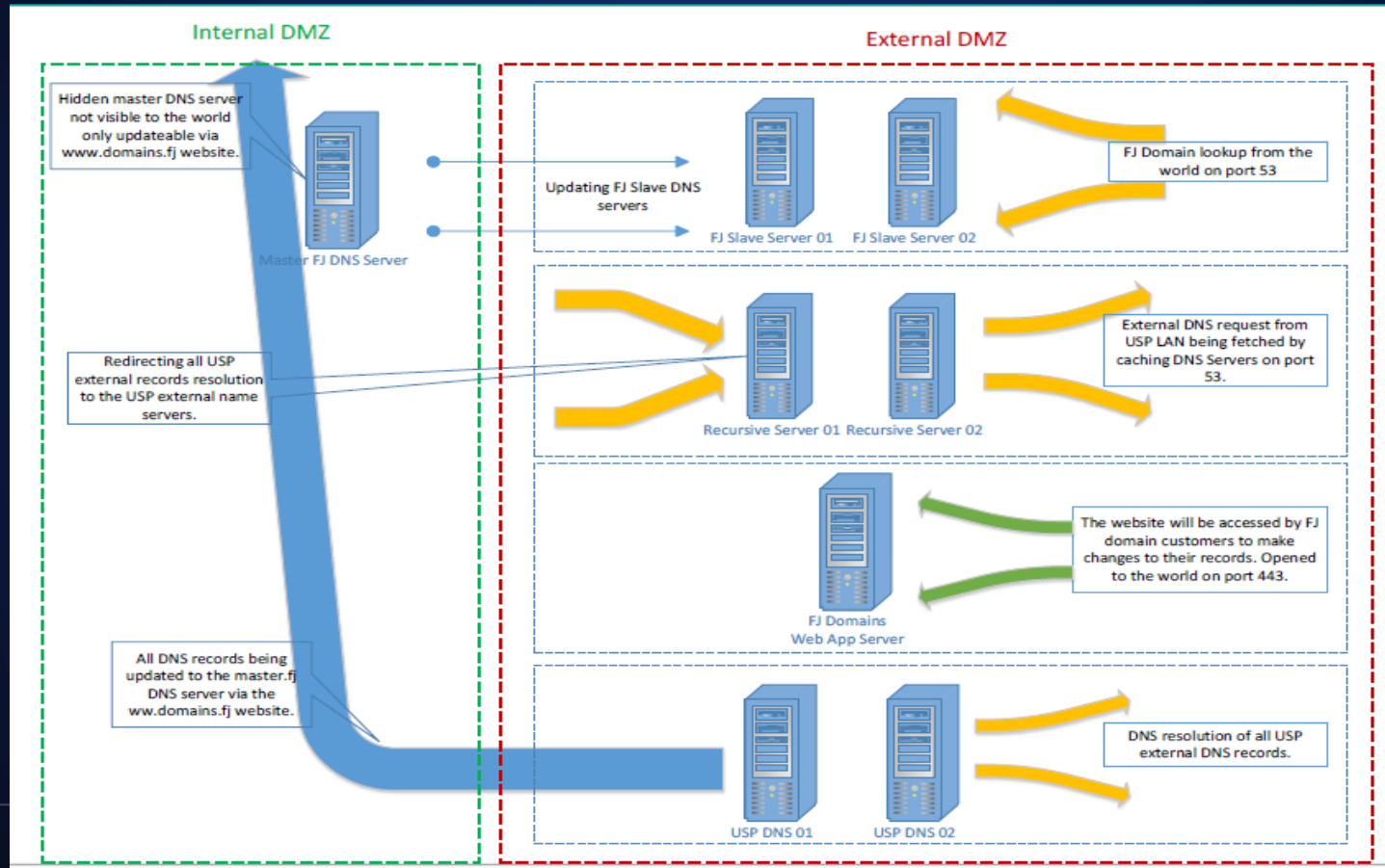
PKI Features – Completed May 2020

- Website Certificates
- AD User & Computer Certificates
- End to End Encryption
- Document Signing

DNS Security – Completed Feb 2021

- Deploy DNS Sec Internally
- As we sign internally, we also need to sign FJ.
- 1 Outage due to IANA record updates.

FJ Domain Architecture



FJ DNS SEC Automation Roadmap 2025

- a) Currently Root to FJ Zone are DNSSEC
- b) KSK and ZSK are fully automated using OpenDNSSEC
- c) KSK is updated once a year with the Root via Portal Key Upload
- d) Using Domain .FJ we plan to automate process of onboarding gov.fj onto using DNSSEC

Thank you for taking the Time to listen to my DNSSEC
Presentation on FJ ccTLD

