**Legitimate URL Patterns**

| **Category** | **Example** | **Why It's Safe** |
| --- | --- | --- |
| **Exact Whitelist Match** | https://www.gov.rw | Exact domain in whitelist |
| **Trusted Subdomain** | https://mail.gov.rw | Uses allowed prefix (mail.) |
| **Normal Path** | https://reb.rw/services | No impersonation in path |
| **Clean Query** | https://ur.ac.rw?page=1 | No hidden domains in params |
| **Proper Encoding** | https://rra.gov.rw/doc%20.pdf | Valid URL-encoded space |
| **Standard Port** | https://bnr.rw:443 | Default HTTPS port |
| **Known Shortener** | https://bit.ly/trusted | Verified short link |

🚨 **Phishing URL Patterns**

| **Detection Method** | **Example** | **Why It's Phishing** |
| --- | --- | --- |
| **Domain Typosquatting** | https://g0v.rw | Numeric substitution (0 for o) |
| **Homograph Attack** | https://ɡоɡle.com | Unicode characters (Cyrillic о) |
| **Fake Subdomain** | https://wwmw.gov.rw | Typo in subdomain (wwmw vs www) |
| **Path Impersonation** | https://example.com/login.gov.rw | Fake domain in path |
| **Query Trick** | https://phish.com?redirect=gov.rw | Hidden whitelisted domain in param |
| **Obfuscation** | https://paypal%2Ecom | URL-encoded dot (%2E) |
| **@ Symbol Abuse** | https://gov.rw:@evil.com | Hidden redirect after @ |
| **Invalid Protocol** | gov.rw/path | Missing http(s):// |
| **Suspicious TLD** | http://secure-paypal.tk | Risky TLD (.tk) with brand name |
| **Excessive Subdomains** | http://a.b.c.d.gov.rw | Too many subdomains (4+) |
| **IP Address** | http://192.168.1.1/login | Uses IP instead of domain |
| **Numeric Typos** | https://paypa1.com | 1 instead of l |
| **Double Slash** | http://example.com//evil | Multiple slashes |
| **Recent Domain** | https://new-service-rw.com | Registered <30 days ago |

http://123.123.123.123/