Permutation-based DGA Generation
Explanation: This DGA generates domains by permuting the characters of a base domain.
Usefulness: This type of DGA can be useful for malware authors to create a unique set of domains for C&C communication or data exfiltration, based on a shared base domain.
Strengths: The generated domains are unpredictable without knowledge of the base domain and the permutation algorithm used.
Weaknesses: If the base domain or the permutation algorithm is compromised, the generated domains can be predicted.
Deception: This DGA can be deciphered by analyzing the pattern of generated domains and attempting to reverse-engineer the base domain and the permutation algorithm.
www.elxempa.com
www.eelxampmm.org
www.eaxmelpm.net
www.explaemee.biz
www.epaelmxee.org
www.ampelexaaa.info
www.lmaxepe.com
www.leeamxplll.com
www.plamxee.biz
www.mpaxelem.org

Regex for Permutation-based Generated DGAs: [r|w|m|e|x|a|o|b|c|p|i|l|g|n|z]+|[^t.f]{0,2}{1,3}

Yara rule:

```
 rule dga_domain_detection {
    meta:
        description = "Detects DGA-generated domain names"
    strings:
        $dga_regex = /[r|w|m|e|x|a|o|b|c|p|i|l|g|n|z]+|[^t.f]{0,2}{1,3}/ nocase
    condition:
        $dga_regex
}
```

Note: Can use https://riskmitigation.ch/yara-scan/ or MalwareBazaar https://bazaar.abuse.ch/ but will need API Key