



# 90-Day Certificate Issuance Preparedness Plan



# Preparedness Steps

- Certificate Discovery
- Compile Vendor Technology List
- Automation Mapping
- Deployment Planning



# Certificate Discovery

- Gather an inventory of public SSL certificates whether it is used externally or internally. Tools that can be used:
  - SCM – scan externally for public SSL
  - SCM – scan internally for public SSL certificate (Network Agent) (OPTIONAL)
  - CT log scanner/utility:
    - URL: <https://nick.lol>
  - Netcraft:
    - URL: <https://searchdns.netcraft.com/?restriction=site+contains&host=sectigo.com&position=limited>
  - Qualys, Censys and/or Tenable



# Compile Vendor Technology List

- Compile a list of vendor technology that requires an SSL certificate. The list “may” be exhaustive, and/or only most critical/urgent.
  - EXAMPLE:

| Technology | Application | Version | IP              | Certificate           | Notes                          |
|------------|-------------|---------|-----------------|-----------------------|--------------------------------|
| Amazon     | ACM         | N/A     | XXX.XXX.XXX.XXX | slideshow.contoso.com | ???                            |
| Apache     | Apache      | 2.4.xx  | XXX.XXX.XXX.XXX | promo.contoso.com     | Promotion website              |
| Kubernetes | Kubernetes  | v1.26   | XXX.XXX.XXX.XXX | payments.contoso.com  | Kubernetes for payments        |
| F5         | BIG-IP      | v16.1   | XXX.XXX.XXX.XXX | germany.contoso.com   | Load Balancer for Germany      |
| Cisco      | ASA         | ?       | XXX.XXX.XXX.XXX | vpn.contoso.com       | SSL VPN access                 |
| F5         | Nginx       | 1.23.4  | XXX.XXX.XXX.XXX |                       | Load balancer for various apps |



# Automation Mapping

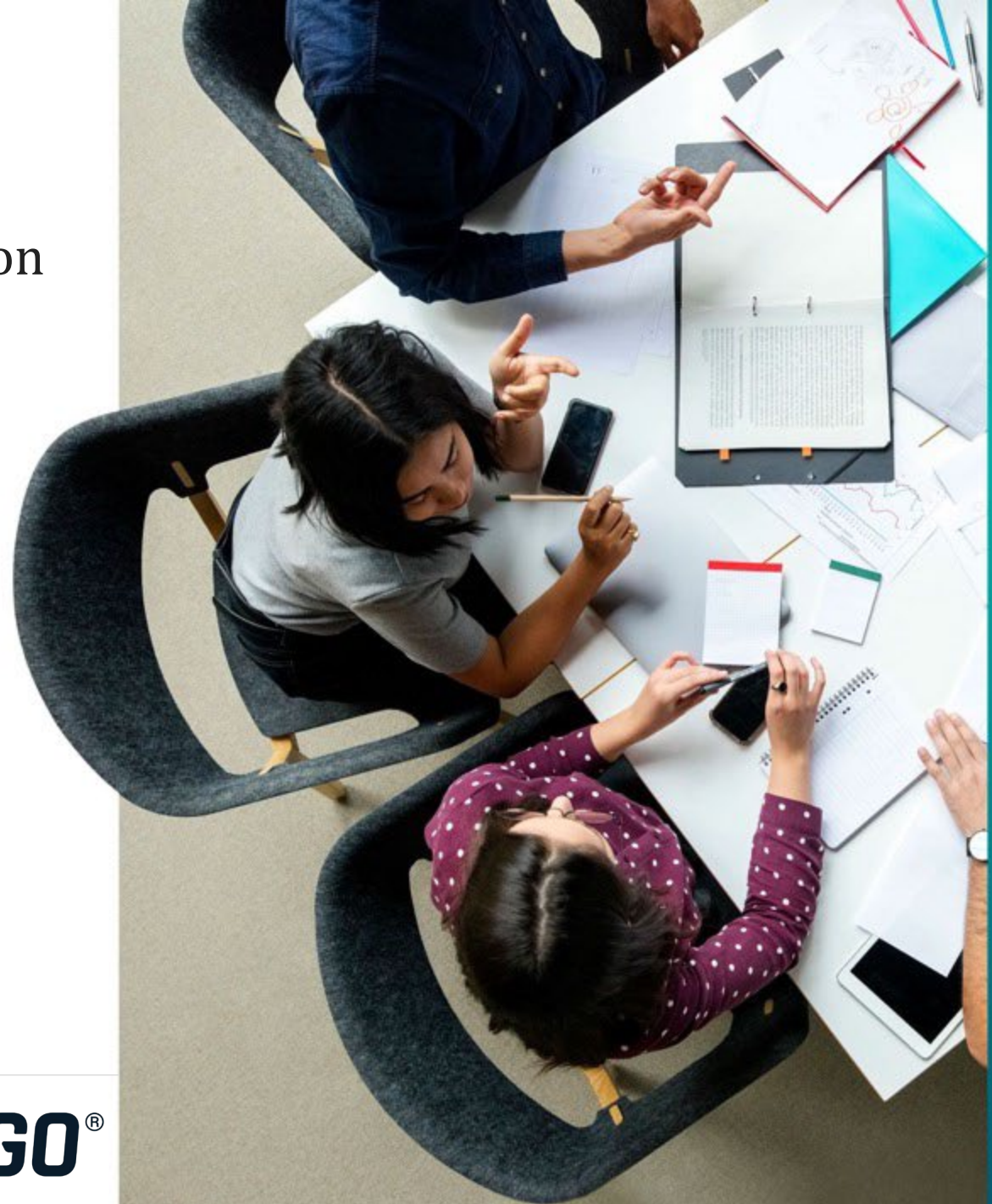
- Provide a known list of ACME clients for SSL certificate automation
- Create a mapping of the available automation to technology list
  - NOTE: There will ALWAYS be some technology that cannot be fully automated
  - EXAMPLE:

| Technology | Application | Version | IP              | Certificate           | Notes                          | ACME Client(s)  |
|------------|-------------|---------|-----------------|-----------------------|--------------------------------|---|
| Amazon     | ACM         | N/A     | XXX.XXX.XXX.XXX | slideshow.contoso.com | ???                            | Sectigo Connector for AWS ACME  |
| Apache     | Apache      | 2.4.xx  | XXX.XXX.XXX.XXX | promo.contoso.com     | Promotion website              | certbot<br>Apache mod_md  |
| Kubernetes | Kubernetes  | v1.26   | XXX.XXX.XXX.XXX | payments.contoso.com  | Kubernetes for payments        | Jetstack  |
| F5         | BIG-IP      | v16.1   | XXX.XXX.XXX.XXX | germany.contoso.com   | Load Balancer for Germany      | Sectigo Connector for F5 BIG-IP (ACME)<br>Ansible & Ansible ACME (if applicable)<br>Terraform & Vancluever ACME (if applicable) |
| Cisco      | ASA         | ?       | XXX.XXX.XXX.XXX | vpn.contoso.com       | SSL VPN access                 | <a href="#">Custom Cisco ASA Integration (using ACME.sh)</a>  |
| F5         | Nginx       | 1.23.4  | XXX.XXX.XXX.XXX |                       | Load balancer for various apps | certbot   |



# Deployment Planning

- Build a plan on how to implement automation to handle 90-day certificate issuance:
  - Create Implementation Plan to set priority for automation rollout:
  - EXAMPLE Sections:
    - Requirements:
      - Customer Requirements
      - Sectigo Proposed Solution
      - Resource/Participant Requirements
      - Software/System Requirements
        - » ACME Client(s)
    - Proposal:
      - Level of Effort
      - Objectives
      - Phase 1 – Discovery and Validation
      - Phase 2 – ACME Client Automation
      - Phase 3 – Sectigo ACME Based Integrations
      - Phase 4 – 3rd Party ACME Integrations



## Learn More

- For more information, or to request a free consultation, click to visit [cscdbs.com/en/domain-security/ssl-certificate-management/](https://cscdbs.com/en/domain-security/ssl-certificate-management/).

