

## Day - 1

- **Getting Started with Cloudflare**

- Overview of Cloudflare platform & global edge network
- How Cloudflare differs from traditional CDNs and firewalls
- Signing up and connecting a domain to Cloudflare
- Cloudflare Dashboard tour

- **Core Network Services**

- DNS: Authoritative DNS, DNSSEC, security, and speed
- CDN: Content caching and delivery acceleration
- Argo Smart Routing: Optimized routing overview
- **Hands-On Lab:**
  - Add DNS records to Cloudflare
  - Enable proxy mode (orange cloud)
  - Validate traffic through Cloudflare's CDN

- **Performance & Optimization**

- Caching Rules: Edge cache control
- Polish & Mirage: Image optimization
- Rocket Loader: Faster JavaScript delivery
- Automatic Platform Optimization (APO): WordPress and dynamic sites
- **Hands-On Lab:**
  - Configure a page rule for caching
  - Enable image optimization

- **Security Foundations**

- DDoS Protection: Multi-layer defense (network, protocol, application)
- WAF Basics: Protecting against OWASP Top 10
- SSL/TLS: Automatic certificate management, HTTPS rewrites, HSTS
- Rate Limiting Rules: Preventing abuse of APIs/web apps
- **Hands-On Lab:**
  - Enable SSL/TLS in full (strict) mode
  - Configure WAF managed rules
  - Add a basic rate limiting rule

- **Introduction to Zero Trust**

- Why Zero Trust matters
- Overview of Cloudflare One (ZTNA, SWG, CASB, DLP)
- Example: Replacing VPN with ZTNA
- Demo Walkthrough: Securing a private app with Zero Trust policies

- **Analytics & Monitoring**

- Real-time dashboards (traffic, security, performance)
- Logpush overview (SIEM integration)
- Basic bot analytics