INFOSOFT IT SOLUTIONS

Training | Projects | Placements

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Cloudflare

Introduction to Cloudflare

- Overview of Cloudflare services and products
- Benefits of using Cloudflare (CDN, DNS, DDoS protection, etc.)
- Cloudflare architecture and global network

Getting Started with Cloudflare

- Signing up for Cloudflare account
- Adding a website/domain to Cloudflare
- Overview of Cloudflare dashboard and features

Cloudflare DNS Management

- Understanding DNS fundamentals
- Configuring DNS settings in Cloudflare
- DNSSEC (Domain Name System Security Extensions) in Cloudflare

Content Delivery Network (CDN) with Cloudflare

- Introduction to CDN and its benefits
- Configuring Cloudflare CDN (Caching, Edge Cache TTL, etc.)
- Cache Purging and Cache Bypass

MCloudflare Security Features

- Overview of Cloudflare security offerings
- Firewall rules and configurations
- DDoS protection and mitigation strategies

Cloudflare SSL/TLS Setup

- SSL/TLS encryption options (Flexible, Full, Full (Strict), etc.)
- SSL/TLS certificate management in Cloudflare
- HTTP to HTTPS redirection

Module 7: Load Balancing with Cloudflare

- Introduction to load balancing
- Setting up load balancers in Cloudflare
- Traffic steering and health checks

Cloudflare Page Rules

- Using Page Rules for advanced configurations
- URL forwarding and redirection
- Cache settings and customizations

Cloudflare Workers

- Introduction to Cloudflare Workers
- Writing and deploying serverless functions with Workers
- Use cases and practical applications

Analytics and Reporting

- Monitoring website performance with Cloudflare analytics
- Understanding traffic patterns and data insights
- Custom reports and dashboards

Cloudflare API and Integrations

- Overview of Cloudflare API
- Integrating Cloudflare with other services (e.g., CMS platforms, monitoring tools)
- Automating tasks with Cloudflare API

Cloudflare for Teams (Zero Trust Security)

- Secure Access Service Edge (SASE) concept
- Configuring Cloudflare Access for Zero Trust security
- User and application access policies

Cloudflare Bot Management

- Bot detection and mitigation strategies
- Configuring Bot Management rules in Cloudflare
- Protecting against malicious bot traffic

Cloudflare Advanced Features and Use Cases

- Advanced traffic routing strategies (Geo-routing, Failover, etc.)
- Customizing performance optimizations (Railgun, Argo Smart Routing)
- Case studies and real-world implementations

Cloudflare Enterprise Features

- Overview of Cloudflare Enterprise offerings
- Custom solutions and dedicated support options
- Enterprise security and compliance considerations

Troubleshooting and Support

- Common issues and troubleshooting techniques
- Cloudflare support options and escalation procedures

- Best practices for maintaining Cloudflare configurations

Hands-on Labs and Projects

- Practical exercises and labs to configure various Cloudflare features
- Building and optimizing website performance using Cloudflare

Additional Resources

- Recommended reading materials, case studies, and documentation
- Online communities and forums for additional support and learning