

# INFOSOFT IT SOLUTIONS

Training | Projects | Placements

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## **BlueCat Security and Advanced Configuration**

### **Introduction to BlueCat Security and Advanced Configuration**

- Overview of BlueCat Networks: Evolution and core products overview
- Importance of Security in DDI (DNS/DHCP/IPAM) Solutions
- Industry Applications: Use cases for advanced configuration and security features

### **Advanced DNS Concepts**

- DNS Security Extensions (DNSSEC): Implementation and key management
- DNS Anycast: Benefits, deployment considerations, and configuration
- DNS Forwarding and Caching: Optimizing DNS resolution performance

### **Advanced DHCP Configuration**

- DHCP Options and Customization: Advanced DHCP configuration parameters
- DHCP Failover and Load Balancing: Ensuring high availability and scalability
- DHCPv6: Configuration and deployment considerations for IPv6 networks

## **IP Address Management (IPAM) Best Practices**

- IP Address Planning: Subnetting strategies and efficient IP allocation
- IP Address Reclamation: Managing and reclaiming unused IP addresses
- Custom Attributes and IPAM Integration: Extending IPAM functionality

## **BlueCat Threat Protection and Security Features**

- Threat Intelligence Integration: Using threat feeds and DNS reputation services
- DNS Firewall Configuration: Implementing DNS firewall rules and policies
- Advanced DNS Filtering: URL categorization, DNS sinkholing, and blacklisting

## **BlueCat Gateway and DNS Security**

- DNS Over HTTPS (DoH) and DNS over TLS (DoT): Configuration and benefits
- DNS Views and ACLs (Access Control Lists): Implementing granular access controls
- Configuring DNS Security Policies: Mitigating DNS-based attacks and vulnerabilities

## **Advanced BlueCat DNS/DHCP Server (Adonis)**

- Advanced Configuration of DNS Zones and Records: Dynamic updates, zone transfers
- High Availability and Disaster Recovery Strategies: Implementing failover and redundancy
- Performance Optimization: DNS server tuning and caching strategies

## **API and Automation for Advanced Configuration**

- BlueCat APIs Overview: RESTful APIs for automation and integration
- Scripting and Automation Tools: Using BlueCat Gateway and third-party tools
- Orchestration and Workflow Automation: Streamlining configuration and management tasks

## **BlueCat DNS Integrity and Advanced Monitoring**

- DNS Traffic Analysis: Monitoring DNS queries, traffic patterns, and anomalies
- Integrating with SIEM (Security Information and Event Management) Systems
- DNS Performance Metrics: Analyzing and optimizing DNS server performance

## **Compliance and Governance**

- Regulatory Compliance: GDPR, HIPAA, and other data protection regulations
- Auditing and Reporting: Generating compliance reports and audit trails
- Role-based Access Control (RBAC): Implementing and managing access policies

## **Hands-on Labs and Practical Exercises**

- Configuring advanced security features in BlueCat DDI solutions
- Implementing DNSSEC, DNS filtering rules, and DHCP failover scenarios
- Troubleshooting and Resolving Complex Network Issues