

## **F5 Certified Administrator, BIG-IP (F5-CA, BIG-IP)**

**Course Total duration -5 Days**

**40 Hours Theory and Hands-on**

**It Covers Exam code(s) 5 modular exams: F5CAB1, F5CAB2, F5CAB3, F5CAB4, F5CAB5**

**Cost 50 \$ per exam**

### **ABOUT THE F5 CERTIFIED ADMINISTRATOR, BIG-IP CERTIFICATION**

**The F5 Certified Administrator certification is earned by passing these five exams, in any order:**

**BIG-IP Administration Install, Initial Configuration, and Upgrade**

**BIG-IP Administration Data Plane Concepts**

**BIG-IP Administration Data Plane Configuration**

**BIG-IP Administration Control Plane Administration**

**BIG-IP Administration Support and Troubleshooting**

The F5 Certified Administrator (F5-CA) certification is intended for professionals who manage and support F5 products in everyday operational environments. It validates an individual's understanding of core networking and application delivery concepts, along with the skills required to configure, monitor, and maintain F5 solutions effectively.

This certification is mainly designed for operational and support roles, where candidates are expected to understand essential configurations, system behavior, troubleshooting basics, and standard maintenance procedures. Certified professionals should also be capable of identifying unusual system activity and performing initial fault isolation before escalating issues to senior engineers when necessary.

The F5-CA certification is currently available with a specialization focused on F5 BIG-IP platforms.

## **F5CAB 1:**

### **Module 1: BIG-IP Administration Install, Initial Configuration, and Upgrade**

1. Securing BIG-IP
  - Securing Management IP
  - Port Lockdown
  - Firewall Rules for Self IPs
  - DDoS Vector Configuration
  - Password Policies
  - SSHD and HTTPD ACLs
2. Management Connectivity Configuration
  - Management IP Identification
  - Port Lockdown Interpretation
  - Remote Connectivity Verification
  - HTTP/SSH Access Lists
3. Licensing and License Management
  - Licensing and Activation
  - License Reactivation
  - License Modification
  - Service Check Date
  - Licensed and Provisioned Modules
4. Software Image Management
  - Software Upgrade Strategy
  - Uploading Software Images
  - Boot Locations
  - Creating Volumes
5. Module Provisioning and Licensing
  - Provisioned Modules

- Licensed Modules
  - Resource Utilization
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## **F5CAB 2:**

### **Module 2: BIG-IP Administration Data Plane Concepts**

1. Interfaces, Trunks, VLANs, Self-IPs, and Routes
  - VLAN Configuration
  - Tagged vs Untagged VLANs
  - Interface and Trunk Dependencies
  - Route and Egress Traffic Flow
2. ADC Application Objects
  - Load Balancing Concepts
  - Intelligent Load Balancing
  - ADC Features and Benefits
3. Traffic Behavior Analysis
  - Persistence Handling
  - Virtual Server Processing
  - Traffic Object Status
  - Connection and Rate Limits
4. Virtual Server Types
  - Standard Virtual Server
  - Forwarding Virtual Server
  - Stateless Virtual Server
  - Reject Virtual Server
  - Performance Layer 4 and HTTP
5. High Availability (HA) Concepts
  - HA Methods

- HA Integrity
  - Advantages of HA
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## **F5CAB 3:**

### **Module 3: BIG-IP Administration Data Plane Configuration**

1. Virtual Server Management
    - Persistence Profiles
    - HTTPS Encryption Profiles
    - Protocol-Specific Profiles
    - iApps and iRules
    - Default Pool Configuration
  2. Pool Management
    - Health Monitors
    - Load Balancing Methods
    - Priority Group Activation
    - Pool Member Service Ports
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## **F5CAB 4:**

### **Module 4: BIG-IP Administration Control Plane Administration**

1. High Availability Pair Management
  - Force to Standby
  - Force Offline
  - Device Trust Status
2. Management Connectivity Configuration
  - Management IP
  - Port Lockdown

- HTTP/SSH Access Lists
- 3. Device Status Monitoring
  - LCD Panel Warnings
  - Dashboard Monitoring
  - Network Map Review
  - GUI and TMSH Status Interpretation
- 4. Log File Management
  - /var/log/ltm
  - /var/log/secure
  - /var/log/audit
  - Event Severity Levels
- 5. UCS Backup and Restore
  - UCS Backup Procedure
  - UCS Restore Procedure
  - UCS Storage Best Practices
  - UCS Contents and Private Keys
- 6. Authentication Methods
  - User Creation and Management
  - Remote Authentication Providers
  - Group Management
- 7. System Services Configuration
  - DNS
  - NTP
  - SNMP
  - Syslog
- 8. Configuration Synchronization
  - Config Sync Procedure
  - Sync Errors

- Sync Status
  - Configuration Timestamps
9. Device Upgrade Eligibility
- Software Upgrade Planning
  - Platform Upgrade Planning
  - Downtime Minimization
10. Service Status Interpretation
- Active vs Inactive Services
  - Netstat Output Analysis
  - Service Port Verification
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## **F5CAB 5:**

### **Module 5: BIG-IP Administration Support and Troubleshooting**

1. Resource Utilization
  - CPU Statistics
  - Disk and Memory Utilization
  - Control Plane vs Data Plane
2. Network Performance Troubleshooting
  - Packet Captures
  - Interface Status
  - Packet Drops
  - Speed and Duplex
  - TCP Profiles
3. Load Balancing Troubleshooting
  - Persistence Issues
  - Priority Groups
  - Health Check Issues

- Connection Limits
- 4. Virtual Server Troubleshooting
  - Availability Status
  - Profile Misconfiguration
  - IP and Port Issues
- 5. Pool Troubleshooting
  - Health Monitor Failures
  - Pool Member State
  - Priority Group Issues
- 6. Statistics and Functionality Verification
  - Traffic Statistics
  - Network Statistics
- 7. Traffic Flow Analysis
  - Client-Server Communication
  - Traffic Graph Interpretation
  - SNMP Statistics