F5 Networks

Configuring BIG-IP DNS (formerly GTM)

Configuring BIG-IP DNS (formerly GTM)

Learn how to configure and deploy BIG-IP DNS as it is commonly used. Learn how the Domain Name System (DNS) resolves hostnames into IP addresses, and how to use DNS Express to cache DNS query responses, accelerating DNS resolution. Practice working with key features to perform intelligent DNS resolution and configure wide IP pools to use a path load balancing method. Explore using persistence to effectively return one or more clients to the same virtual server on each query. Practice manual controls for resuming certain load balancing behaviors in the event of an outage. Configure BIG-IP DNS to participate in the DNSSEC chain of trust. Configure limit settings on virtual servers, and wide IP pools to temporarily direct client traffic away from resources that may not be performing at certain thresholds of efficiency. Customize intelligent DNS resolution using iRules on a wide IP. Learn how to configure a BIG-IP DNS sync group. Reinforce knowledge transfer through the use of hands-on labs, and gain the confidence needed to start using BIG-IP DNS in a production environment.

Kursinhalt
- Setting Up the BIG-IP System
- Introducing the Domain Name System (DNS) and BIG-IP DNS
- Implementing Intelligent DNS Resolutions
- Load Balancing Intelligent DNS Resolution
- Using LDNS Probes and Metrics
- Monitoring Intelligent DNS Resources
- Advanced BIG-IP DNS Topics
- Final Configuration Projects

Jeder Teilnehmer erhält die englischsprachigen Original-Unterlagen von F5 Networks in elektronischer Form.

Zielgruppe
This course is intended for system and network administrators responsible for installation, setup, configuration, and administration of BIG-IP DNS systems.

Voraussetzungen
The following free Self-Directed Training (SDT) courses, although optional, are helpful for any student with limited BIG-IP administration and configuration experience. These courses are available at **F5 University:**

- Getting Started with BIG-IP web-based training
- Getting Started with BIG-IP DNS web-based training

General network technology knowledge and experience are recommended before attending any F5 Global Training Services instructor-led course, including OSI model encapsulation, routing and switching, Ethernet and ARP, TCP/IP concepts, IP addressing and subnetting, NAT and private IP addressing, NAT and private IP addressing, default gateway, network firewalls, and LAN vs. WAN.

The following course-specific knowledge and experience is suggested before attending this course:

- DNS resolution process
- Experience configuring DNS content and resolution servers
- DNSSEC

Kursziel
F5 offers exam blueprints and exam study guides for the certification exams. The F5 Networks training courses serve to further expand and refresh knowledge in this context.

The courses is a useful addition to your preparation for the Exam 302 - F5 Certified Technology Specialist, BIG-IP, DNS.

Dieser Kurs im Web
Alle tagesaktuellen Informationen und Möglichkeiten zur Bestellung finden Sie unter dem folgenden Link: www.experteach.at/go/**FDNS**

Vormerkung
Sie können auf unserer Website einen Platz kostenlos und unverbindlich für 7 Tage reservieren. Dies geht auch telefonisch unter 06074 4868-0.

Garantierte Kurstermine
Für Ihre Planungssicherheit bieten wir stets eine große Auswahl garantierter Kurstermine an.

Ihr Kurs maßgeschneidert
Diesen Kurs können wir für Ihr Projekt exakt an Ihre Anforderungen anpassen.

Training		**Preise zzgl. MwSt.**
Termine in Österreich	**2 Tage**	**€ 2.195,-**
Online Training	**2 Tage**	**€ 2.195,-**
Termin/Kursort		Kurssprache Englisch
07.09.-08.09.26 ONOnline		14.12.-15.12.26 ONOnline

Stand 21.06.2026

F5 Networks

ExperTeach

Inhaltsverzeichnis

Configuring BIG-IP DNS (formerly GTM)

Chapter 1: Setting Up the BIG-IP System
Introducing the BIG-IP System
Initially Setting Up the BIG-IP System
Archiving the BIG-IP Configuration
Leveraging F5 Support Resources and Tools

Chapter 2: Introducing the Domain Name System (DNS) and BIG-IP DNS
Understanding the Domain Name System (DNS)
Reviewing the Name Resolution Process
Implementing BIG-IP DNS
Using DNS Resolution Diagnostic Tools

Chapter 3: Accelerating DNS Resolution
Introducing DNS Resolution with BIG-IP DNS
BIG-IP DNS Resolution Decision Flow
Using the Traffic Management Shell (TMSH)
Configuring BIG-IP DNS Listeners
Resolving DNS Queries in the Labs (Lab Zone Records)
Load Balancing Queries to a DNS Server Pool
Accelerating DNS Resolution with DNS Cache
Accelerating DNS Resolution with DNS Express
Introducing Wide IPs
Using Other Resolution Methods with BIG-IP DNS
Integrating BIG-IP DNS into Existing DNS Environments

Chapter 4: Implementing Intelligent DNS Resolutions
Introducing Intelligent DNS Resolution
Identifying Physical Network Components
Identifying Logical Network Components
Collecting Metrics for Intelligent Resolution
Configuring Data Centers
Configuring a BIG-IP DNS System as a Server
Configuring a BIG-IP LTM System as a Server
Establishing iQuery Communication between BIG-IP Systems
Configuring a Non-F5 Server
Defining Links and Routers
Configuring Wide IP Pools
Configuring Wide IPs
Managing Object Status and State

Chapter 5: Load Balancing Intelligent DNS Resolution
Introducing Load Balancing on BIG-IP DNS
Using Static Load Balancing Methods
Round Robin
Ratio
Global Availability
Static Persist
Other Static Load Balancing Method
Using Dynamic Load Balancing Method
Round Trip Tim
Completion Rat
CP
Hop
Least Connection
Packet Rat
Kilobytes per Secon
Other Dynamic Load Balancing Methods
Using Quality of Service Load Balancing
Persisting DNS Query Responses
Configuring GSLB Load Balancing Decision Logs
Using Manual Resume
Using Topology Load Balancing

Chapter 6: Using LDNS Probes and Metrics
Introducing LDNS Probes and Metrics
Types of LDNS Probes
Excluding an LDNS from Probing
Configuring Probe Metrics Collection

Chapter 7: Monitoring Intelligent DNS Resources
Exploring Monitors
Configuring Monitors
Assigning Monitors to Resources
Monitoring Best Practices

Chapter 8: Advanced BIG-IP DNS Topics
Implementing DNSSEC
Setting Limits for Resource Availability
Using iRules with Wide IPs
Introducing Other Wide IP Types
Implementing BIG-IP DNS Sync Groups

Chapter 9: Final Configuration Projects
Review Questions

Chapter 10: Additional Training and Certification
Getting Started Series Web-Based Training
F5 Instructor Led Training Curriculum
F5 NGINX Instructor Led Training Curriculum
F5 Professional Certification Program

ExperTeach Training & Consulting GmbH
Handelskai 94-96 · 1200 Wien · Telefon: +43 1 2350 383-0 · Fax: +43 1 2350 383-19 · info@experteach.at · www.experteach.at