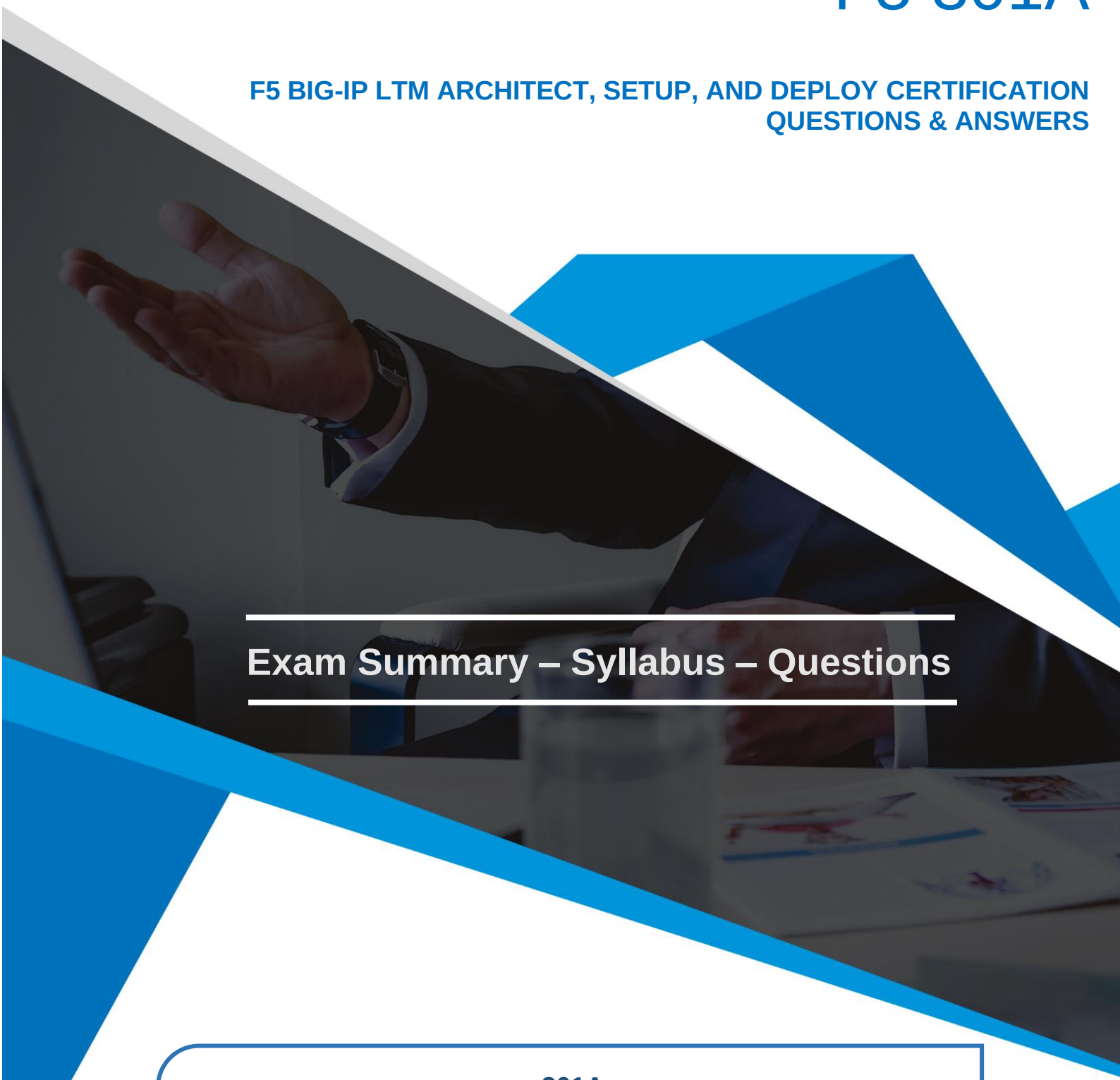
# F5 301A

## F5 BIG-IP LTM ARCHITECT, SETUP, AND DEPLOY CERTIFICATION QUESTIONS & ANSWERS



## Exam Summary – Syllabus – Questions

**301A**

**F5 Certified Technology Specialist - Local Traffic Manager (F5-CTS LTM)**

**80 Questions Exam – 245 / 350 Cut Score – Duration of 90 minutes**

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## Table of Contents

Know Your 301A Certification Well:..... 2

F5 301A BIG-IP LTM Architect, Setup, and Deploy Certification Details: ..... 2

301A Syllabus: ..... 3

**ARCHITECT AND DEPLOY APPLICATIONS** ..... 3

**SET UP, ADMINISTER, AND SECURE LTM DEVICES** ..... 4

F5 301A Sample Questions:..... 6

Study Guide to Crack F5 BIG-IP LTM Architect, Setup, and Deploy 301A Exam:..... 9

# Know Your 301A Certification Well:

The 301A is best suitable for candidates who want to gain knowledge in the F5 Specialist. Before you start your 301A preparation you may struggle to get all the crucial BIG-IP LTM Architect, Setup, and Deploy materials like 301A syllabus, sample questions, study guide.

But don't worry the 301A PDF is here to help you prepare in a stress free manner.

The PDF is a combination of **all your queries** like-

- What is in the 301A syllabus?
- How many questions are there in the 301A exam?
- Which Practice test would help me to pass the 301A exam at the first attempt?

Passing the 301A exam makes you F5 Certified Technology Specialist - Local Traffic Manager (F5-CTS LTM). Having the BIG-IP LTM Architect, Setup, and Deploy certification opens multiple opportunities for you. You can grab a new job, get a higher salary or simply get recognition within your current organization.

# F5 301A BIG-IP LTM Architect, Setup, and Deploy Certification Details:

| | |
|---|---|
| Exam Name | F5 Certified Technology Specialist - Local Traffic Manager (F5-CTS LTM) |
| Exam Code | 301A |
| Exam Price | $180 (USD) |
| Duration | 90 mins |
| Number of Questions | 80 |
| Passing Score | 245 / 350 |
| Books / Training | **F5 Training Programs** |
| Schedule Exam | **Pearson VUE** |
| Sample Questions | **F5 BIG-IP LTM Architect, Setup, and Deploy Sample Questions** |
| Practice Exam | **F5 301A Certification Practice Exam** |

# 301A Syllabus:

| Topic | Details |
|---|---|
| **ARCHITECT AND DEPLOY APPLICATIONS** | |
| Determine which configuration objects are necessary to optimally deploy an application | - Determine least amount of configuration objects needed to deploy application<br>- Understand dependencies of configuration objects<br>- Understand needed LTM profiles to deploy an application<br>- Identify unnecessary configurations objects<br>- Understand the differences between virtual servers and virtual addresses |
| Determine whether or not an application can be deployed with only the LTM module provisioned | - Identify the functionality of LTM configuration objects<br>- Identify LTM profile settings to deploy an application<br>- Determine capabilities of LTM configuration objects |
| Identify the difference between deployments (e.g., one arm, two arm, npath, Direct Server Return/DSR) | - Identify configuration objects needed for L2/L3 npath routing<br>- Determine how the IP address changes when using DSR<br>- Determine how IP addresses change when using a full proxy deployment<br>- Plan the network considerations for one arm and two arm deployments<br>- Understand the importance of auto last-hop |
| Choose correct profiles and settings to fit application requirements | - Identify LTM profile settings to deploy OneConnect<br>- Determine which profiles are needed to deploy an application<br>- Compare and contrast different communication protocols (TCP, UDP, FastL4)<br>- Compare performance impact of LTM profile settings |
| Choose virtual server type and load balancing type to fit application requirements | - Determine the difference between L2-L3 virtual servers<br>- Compare and contrast standard and fastL4 virtual server types<br>- Compare and contrast different load balancing methods<br>- Identify different load balancing method use cases |

| Topic | Details |
|---|---|
| Determine how to architect and deploy multi-tier applications using LTM | - Understand connection based architecture and when/how to apply<br>- SNAT/persistence/SSL settings in a multi-tiered environment<br>- Identify which device handles specific configuration objects in a multi-tiered deployment |
| Distinguish between packet based versus connection based load balancing | - Demonstrate when to use packet based load balancing<br>- Demonstrate when to use connection based load balancing |
| Determine which configuration objects are necessary for applications that need the original client IP address | - Determine when SNAT is required<br>- Determine the required SNAT type<br>- Identify functions of X-forwarded-for<br>- Outline the steps needed to return the traffic to LTM without SNAT |
| Identify the matching order of multiple virtual servers | - Identify which virtual server would process particular traffic<br>- Identify why the virtual server fails to receive traffic |
| Given a basic iRule's functionality, determine the profiles and configuration options necessary to implement the iRule | - Determine what virtual server profile is necessary<br>- Determine when persistence profile is necessary |
| Describe how to deploy applications using iApp templates | - Recognize how to modify an application deployed with an iApp<br>- Identify objects created by an iApp |
| **SET UP, ADMINISTER, AND SECURE LTM DEVICES** | |
| Determine how to secure Self IPs | - Identify which administrative services need to be accessible<br>- Identify which configurations objects are allowing accessibility<br>- Identify which services must be enabled for HA availability between devices |
| Determine how to secure virtual servers | - Determine how to limit access to virtual servers<br>- Compare and contrast different virtual server types |

| Topic | Details |
|---|---|
| | - Identify LTM profiles setting to limit access to virtual server resources |
| Determine how to perform basic device configuration | - Identify how to synch time/date amongst LTM devices<br>- Determine how to limit administrative access to LTM device (GUI/CLI)<br>- Identify how to restrict access to administrative partitions |
| Determine how to perform a software upgrade while maintaining application availability | - Identify proper steps to avoid downtime while upgrading LTM software<br>- Determine necessary steps for migrating LTM configuration to new hardware<br>- Understand implications of stopping BIG-IP services |
| Determine how to configure a high availability group of LTM devices to fit the requirements | - Compare and contrast traffic groups vs HA groups<br>- Determine what prevented an expected failover<br>- Describe the differences between network failover and hardware failover |
| Apply concepts required to use BIG-IP functionality to fulfill security requirements | - Make use of port lockdown<br>- Demonstrate how to restrict access to management interface<br>- Demonstrate how to restrict access to virtual servers |
| Determine how configuration changes affect existing and new connections | - Predict persistence for existing connections<br>- Calculate when changes will affect the connections<br>- Predict load balancing and persistence for new connections<br>- Determine the impact of virtual server configuration change on traffic |
| Explain the uses of user roles, administrative partitions, and route domains | - Explain how to restrict access to LTM using user roles<br>- Discuss the benefits of administrative partitions<br>- Apply user roles to administrative partitions<br>- Explain the functionality of route domains<br>- Summarize how the 3 technologies can be used together |
| Determine how to deploy or upgrade vCMP guests and how | - Explain the different vCMP guest deployment states<br>- Discuss the relationship between CPU and memory on vCMP |

| Topic | Details |
|---|---|
| the resources are distributed | - Select which versions can run on a guest given host version<br>- Understand the relationship of network configuration objects between vCMP hosts and vCMP guests |

# F5 301A Sample Questions:

**Question: 1**

AN LTM Specialist is setting up a new HTTPS virtual server to decrypt client traffic. SNAT the traffic and send the encrypted traffic to the poor member, the client's IP address must be included in the traffic sent to the pool member.

What is a complete set of profiles that must be configured for the virtual server to meet these requirements?

a) TCP, Client SSL, HTTP
b) TCP, Client SSL, Server SSL
c) TCP , Server SSL, HTTP
d) TCP, Client SSL, Server SSL, HTTP

**Answer: d**

**Question: 2**

Six servers have a varying number of connections that change based on the user load. Which load balancing method should an LTM Specialist apply to divided the web application traffic to the servers on the relative performance trend?

a) Least Sessions
b) Predictive
c) Least Connections
d) Ratio

**Answer: b**

**Question: 3**

Which Standard Virtual Server settings should an LTM Specialist use to load balance across routed path of two different ISPs?

a) address translation disabled and port translation enabled
b) both address and port translation disabled
c) both address and port translation enabled
d) address translation enabled and port translation disabled

**Answer: c**

## Question: 4

Where does a LTM Specialist view all of the objects that are part of a deployed iApp?

a) iAPP > Application Policy > Objects
b) Local Traffic > Network Map > View Map
c) IAP > Application Service > Components
d) Local Traffic > Virtual Servers > Applications

**Answer: c**

## Question: 5

A BIG IP system load balances connections to a web application. A TCP-based Denial of Service attack against the web application is occurring, which has caused very high memory utilization on the LTM device due to stale TCP connections. Which TCP profile option should be used to reduce memory utilization?

a) Idle timeout
b) Multipath TCP
c) Reset on timeout
d) Slow Start

**Answer: a**

## Question: 6

A VCMP guest has the following characteristics:

- Resources allocated for CPU memory, network interfaces, and disk space

- Virtual disk created

- The guest is NOT running. The guest is NOT running in which state is the VCMP guest?

a) Deployed
b) Provisioned
c) Offline
d) Configured

**Answer: b**

## Question: 7

One LTM device in an HA pair of LTM devices is unable to reach its default gateway. An HA Failover event needs to happen. Which configuration item enables this behavior?

a) Gateway pool monitor
b) Gateway Fail Safe
c) Gateway pool
d) iRule

**Answer: b**

## Question: 8

Remote users who access the LTM device are authenticated via Radius. The default remote user role is Guest Some users need LTM device with the Administrator role. The F5 Radius attributes are configure on the Radius server.

Which configuration item needs to be created?

a) User role
b) User account
c) Admin account
d) Remote User role

**Answer: d**

## Question: 9

While working with a web developer, it is determined that additional logic is required to assess the pool member availability. Which two monitor types should be used in this scenario?

(Choose two)

a) TCP
b) Scripted
c) External
d) TCP Echo
e) Gateway ICMP

**Answer: b, c**

## Question: 10

An LI M device is experiencing a high volume of traffic. The virtual server is struggling under the load. The problem appears to be on the server side connections. The virtual server is accepting connections. The virtual server is accepting connections on https and is configured with an SSL profile and http pool.

What should be added to increase the performance of the device?

a) a SPDY profile
b) smaller key to the SSL profile
c) a One Connect profile
d) an HTTP Compression profile

**Answer: c**

# Study Guide to Crack F5 BIG-IP LTM Architect, Setup, and Deploy 301A Exam:

- Getting details of the 301A syllabus, is the first step of a study plan. This pdf is going to be of ultimate help. Completion of the syllabus is must to pass the 301A exam.
- Making a schedule is vital. A structured method of preparation leads to success. A candidate must plan his schedule and follow it rigorously to attain success.
- Joining the F5 provided training for 301A exam could be of much help. If there is specific training for the exam, you can discover it from the link above.
- Read from the 301A sample questions to gain your idea about the actual exam questions. In this PDF useful sample questions are provided to make your exam preparation easy.
- Practicing on 301A practice tests is must. Continuous practice will make you an expert in all syllabus areas.