

170-030

BROCADE PROFESSIONAL vADC ADMINISTRATOR 2016



HIGHLIGHTS

How to Register

Register at [Pearson Vue](#).

Cut Score

67%

Questions

68

Exam Duration

90 minutes

Prerequisites

Before attempting this certification exam, you should have completed these recommended courses or have equivalent working knowledge of:

- [Brocade Network Industry Protocol \(NIP 200\)](#)
- [Brocade Virtual Application Delivery Essentials \(vADC 200\)](#)

Target Audience

This certification and exam is designed for network administrators, system administrators, network architects, systems engineers, and technical support engineers involved in installation, configuration, maintenance, and basic troubleshooting of the Brocade Virtual Application Delivery product family.

Exam Description

As a Brocade Professional vADC Administrator you must be able to understand and apply Brocade Virtual Traffic Manager (vTM) deployment options; successfully install Brocade vTM; navigate the Brocade vTM user interface; and configure the Brocade vTM. You must also understand and apply server load balancing configuration, hosting web services, rule configuration and application, and server bandwidth management.

Ideal Candidate

Before attempting the exam, you should have these critical competencies and experience:

- Be capable of installing software on x86 servers and PCs
- Experience creating and cloning VMs
- Basic knowledge of IP networking
- vTM configuration using GUI, REST, zCLI
- Experience configuring basic server load balancing
- Experience managing application servers
- Basic knowledge of Linux OS; basic command line functionality

About this Guide

This guide summarizes the key topics on the exam for you in an easy-to-use format. It is organized closely around the exam objectives. Links to additional resources including practice exams, product documentation, and online forums are provided for your reference.

Important! The Study Guide is not intended as a substitute for classroom training or hands-on time with Brocade products.

Exam Blueprint

The exam blueprint outlines the range of content that can be included in the exam. Not all objectives have associated questions. The weight indicates approximately how much of the exam content focuses on a section.

Weight	Section Name & Objectives
27%	<p>Section 1 – Foundational vADC Concepts and Technologies</p> <p>Web application hosting</p> <ul style="list-style-type: none">• Explain the DNS resolutions process.• Describe HTTP GET request/response.• Explain firewall interaction. <p>Brocade Virtual Traffic Manager (vTM)</p> <ul style="list-style-type: none">• Explain proxy functionality.• Differentiate load balancing backend server selection processes.• Identify load balancing components.• Describe the features and functionality of Locality Aware Request Distribution (LARD). <p>Clustering and protocol support</p> <ul style="list-style-type: none">• Identify clustering communication methods.• Explain cluster fault detection checks.• Describe the explicitly-supported TCP protocols. <p>HTTP headers</p> <ul style="list-style-type: none">• Differentiate common HTTP response codes. <p>Rules</p> <ul style="list-style-type: none">• Explain the functionality of request, response, and transaction completion rules.• Describe rule conditions and actions. <p>Server nodes and pools</p> <ul style="list-style-type: none">• Describe server nodes states.• Explain the purpose of failure pools. <p>Web content</p> <ul style="list-style-type: none">• Describe HTTP content compression.• Identify benefits and impacts of HTTP content caching. <p>Session persistence</p> <ul style="list-style-type: none">• Identify methods of maintaining session persistence.• Differentiate between session persistence methods. <p>SSL encryption and decryption</p> <ul style="list-style-type: none">• Identify usage scenarios for SSL encryption and decryption.• Explain the server benefits of SSL decryption.• Explain how different certificate authorities function.• Global load balancing (GLB).• Describe the purpose of GLB.• Explain the role of DNS in GLB operations.• Differentiate among GLB configuration models.
8%	<p>Section 2 – vADC Products and Solutions</p> <ul style="list-style-type: none">• Differentiate among the three available deployment options for Brocade vTM.• Identify the supported platforms.• Determine the operational mode.• Explain how to perform initial setup using CLI.• Demonstrate navigation of the administration GUI.

23%	<p>Section 3 – Implementing a vADC Solution</p> <p>Initial configuration</p> <ul style="list-style-type: none"> • Configure initial IP address for management. • Reset device to factory defaults. • Use the initial configuration wizard. <p>Adding services</p> <ul style="list-style-type: none"> • Use the Manager Service Wizard appropriately. • Configure a virtual server. • Configure a server pool. • Configure Traffic IP and assign to a virtual server. <p>Clustering</p> <ul style="list-style-type: none"> • Configure - Clustering; distribution modes. • Add/remove Brocade vTMs to/from a cluster. <p>Rules</p> <ul style="list-style-type: none"> • Configure TrafficScript rules and verify syntax. • Configure RuleBuilder rules. • Convert RuleBuilder rule to TrafficScript. • Apply rules to virtual servers. • Set rule order. <p>Global load balancing (GLB)</p> <ul style="list-style-type: none"> • Configure - GLB location awareness; GLB service; GLB health monitors; virtual servers for built-in DNS; virtual servers for pool-based DNS; DNS zones.
19%	<p>Section 4 – Enhancing a vADC Solution</p> <ul style="list-style-type: none"> • Configure HTTP content compression and caching. • Explain the three types of bandwidth classes; identify bandwidth class assignment. • Describe the purpose for request rate shaping. • Identify risks mitigated by Service Protection Classes. • Explain service level monitoring (SLM) behavior. • Describe the benefits of auto-scaling. • Tune connection settings for virtual server, pools, and global settings. • Process code upgrades. • Explain Web Application Firewall (WAF) purpose, architecture, and configuration. • Explain WCO functionality. • Describe Brocade Services Director concepts.
8%	<p>Section 5 – Troubleshooting and Repairing a vADC Solution</p> <ul style="list-style-type: none"> • Diagnose cluster issues. • Test server load with zeusbench. • Capture technical support logs. • Examine and analyze connection analytics. • Examine, analyze, and configure request logging.
15%	<p>Section 6 – Managing a vADC Solution</p> <ul style="list-style-type: none"> • Demonstrate full and partial backups/restores. • Analyze current activity graphs; event logs. • Review exam historical activity graphs. • Configure event handlers and alerts. • Configure local users, authentication, and permissions groups; and validate authenticators.

Study Materials

Practice Exam	<p>170-030 Brocade Professional vADC Administrator 2016 Practice Exam</p> <p>The practice exam can be found at MyBrocade.</p> <ol style="list-style-type: none">1. Select My Education from within MyBrocade.2. Click on Brocade Training Portal.3. From the Portal landing page, select "Browse."4. Scroll down and click the Test icon (shaped like a clipboard) on the right-hand side of page.5. From the available tests displayed, select the practice exam and then click on "Request" to launch. Upon completion of the practice exam, you will immediately see your score.
Course Name and Description	<p>Brocade Professional vADC Administrator (vADC 200)</p> <p>This instructor-led course with hands-on labs provides an introduction to the Brocade Virtual Application Delivery product family and supported Layer 4 through 7 features. Products covered in this training include Brocade Virtual Traffic Manager (vTM) with an overview of capabilities of Brocade Services Director (SD) and Brocade Virtual Web Application Firewall (vWAF). Other topics include, configuration of vTM installations, fail pools, clustering, SSL, and Global Load Balancing (GLB).</p>
Product Documentation	<p>These resources are provided as secondary materials to assist in your exam preparation. If you do not take the course, you should review these materials as they were used to create the vADC 200 course. The course and exam were based on Brocade Virtual Traffic Manager version 10.1.</p> <p>Product Manuals</p> <ol style="list-style-type: none">1. Login to MyBrocade. (If you do not have an account on MyBrocade you will need to create one.)2. Select top level Documentation link.3. Search Product Manuals and select download by Application Delivery Controllers.4. Under Product Name select and expand Virtual Traffic Manager.5. Select Brocade Virtual Traffic Manager 10.1 GA6. Under Manuals download:<ul style="list-style-type: none">• Brocade vTraffic Manager User Guide 10.1 (53-1003858-01)• Brocade vTraffic Manager Virtual Appliance Installation and Getting Started Guide 10.1 (53-1003859-01)• Brocade vTraffic Manager: Software Installation and Getting Started Guide 10.1 (53-1003860-01)• Brocade vTraffic Manager: Cloud Services Installation and Getting Started Guide v10.1 (53-1003861-01)
Online Resources:	<ul style="list-style-type: none">• www.brocade.com• MyBrocade• Brocade Communities

Course Outline for Brocade Virtual Application Delivery Essentials (vADC 200)

Module Name & Objectives

Module 1 - Course Introduction

Module 2 - Load Balancing Overview

- Describe the virtual Brocade Traffic Manager solution overview
 - Explain the basics of hosting a web application
 - Understand the purpose of a firewall in a network deployment
 - Explain the purpose of a load balancer
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Module 3 - Deploying a Traffic Manager Instance

- Explain the available Traffic Manager packages
 - Describe the licensing model options
 - Describe the general deployment requirements for an ESX Virtual Appliance installation
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Module 4 - Traffic Manager Basic Concepts

- Discuss the Traffic Manager components
 - Describe available load balancing algorithms
 - Explain the Load Balancer Connection Proxy functionality
 - Describe the complete Load Balancer transaction flow
 - Discuss the steps to configure a new service
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Module 5 - Hosting Multiple Services

- Introduce additional traffic management components
 - Identify the purpose and benefits of Traffic IP's
 - Discuss the options for offering multiple services
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Module 6 - Clustering

- Describe the Traffic Manager Clustering feature
 - Explain the health checks performed by clustered Traffic Managers
 - Understand the Clustering configuration process
 - Explain the purpose of Traffic IP Groups
 - Describe the different traffic distribution models
 - Describe how to configure Traffic IP Groups
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Module 7 - Layer 7 Protocol Support

- Explain the Layer 7 protocols supported by Traffic Manager
 - Describe the 3 generic protocol types and their functionality
 - Understand the Layer 7 protocol capabilities of virtual servers
 - Describe HTTP messages and connections
 - Explain the contents of HTTP message headers
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Module 8 - TrafficScript

- Describe the role and capabilities of TrafficScript
 - Understand TrafficScript rule types and functions
 - Explain TrafficScript syntax and application methods
 - Describe TrafficScript examples and the scenarios in which they would be used
 - Understand RuleBuilder features and capabilities
 - Explain how RuleBuilder can assist with developing TrafficScript rules
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Module 9 - Monitoring and Logging

- Understand the real time and historical graphing capability
 - Explain how events are analyzed and the actions generated
 - Describe graphing and load testing tools available
 - Explain various methods of supporting server access logging
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Module 10 - Managing Nodes and Failover Features

- Explain the different state parameter options for nodes
 - Describe the purpose of failure pools
 - Understand the configuration process for creating failure pools
 - Explain the different methods of health node monitoring
 - Describe the difference between passive health monitoring and health monitoring
 - Describe the different health monitor types
 - Explain how to create custom health monitors
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Module 11 - Web Content Compression and Caching

- Explain web content compression functionality
 - Describe the web content compression configuration steps
 - Explain web content caching functionality
 - Describe the web content caching configuration settings and monitoring methods
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Module 12 - Session Persistence and SSL Features

- Explain session persistence and benefits it provides
 - Explain various types of persistence and when they would be used
 - Describe Secure Socket Layer (SSL) operations
 - Explain the configuration process of SSL Decryption and Encryption
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Module 13 - Web Content Optimization

- Describe the basic functionality of the Services Director
 - Describe some of the Services Director key concepts
 - Understand need for Web Content Optimization (WCO)
 - Explain WCO modes of operation
 - Describe web content optimization techniques
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