

## Designing Citrix Xendesktop 7 Solutions Instructor Led

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### *Designing Citrix Xendesktop 7 Solutions*

With Cisco Unified Workspaces, teachers and students experience the flexibility of using any device to securely access any information, any application, and any expertise—from anywhere—for efficient, ...

Master the skills required to implement Citrix® XenApp® 7.6 to deploy a complete Citrix®-hosted application from scratch About This Book Learn to implement and configure components of Citrix® XenApp® 7.6, which are XenServer®, XenApp®, Citrix® License server, PVS, Storefront, Citrix® Receiver, and Netscaler to secure WAN traffic Build the XenApp® 7.6 environment independently and perform tests to make sure the components are working as expected for internal and external traffic Implement advanced tools in Citrix® XenApp® to build and manage a cost effective, secure, and high-performing application delivery infrastructure with this comprehensive guide Who This Book Is For This is book is for administrators who are currently managing the implemented environment and want to learn how to deploy the

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Citrix® Hosted virtualization solution for the application in a windows server 2012 R2 environment. A reasonable knowledge and understanding of core XenApp® elements and concepts used during virtualizing applications are assumed. What You Will Learn

- Understand how to set up Hypervisor, install the management console, configure the storage repository, and create a virtual machine on hypervisor
- Set up an Infrastructure component and explore ways to tune them up so that they can be used for Citrix® environment
- Set up a Domain controller, DHCP, Certificate authority, and SQL server for static database for Citrix® XenApp®
- Validate the Citrix® XenApp® 7.6 solution to make sure components are communicating properly
- Manage the essential Citrix® components – Director, Licensing, and Policies with the Help of Citrix® studio
- Optimize the behavior of an Application and share desktop via Policies
- Installing and configuring Citrix® Provisioning services to deliver Citrix® XenApp® 7.6 virtual machines
- Secure the external Delivery of an application and shared desktop via netscaler to enjoy mobility
- In Detail Citrix® XenApp® is one of the leading pieces of Application delivery software that delivers Windows compatible apps to users on any device, anywhere.

Citrix® XenApp® also gives administrators the ability to manage and control the freedom of mobility by increasing the security and saving costs at the same time. This book will provide you with all the knowledge required to successfully deploy and master a complete Citrix® hosted application. First, it will cover essential concepts of the architecture of XenApp®. You will then learn how to set up Hypervisor and how to set up Infrastructure components. Next you will learn how to Set up Citrix® Components, XenApp® resources, PVS, and Netscaler. We will further look at how to prepare the environment for Rollout. Additionally, you will learn how to configure the Citrix® components such as Citrix® Director. Moreover, you'll learn about shared desktop for delivery to end users and the application of policies for effective and secure delivery. Finally, you will learn

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how to implement provisioning services for a Citrix® XenApp® 7.6 environment. Style and approach This book is based on a course outline and hence takes a very practical approach so you will understand how to implement the components of XenApp® in a production environment. Complemented with many best practices and troubleshooting concepts of XenApp®, this book will help you master XenApp® swiftly.

Implement the new features of Citrix NetScaler 11 to optimize and deploy secure web services on multiple virtualization platforms  
About This Book Learn how to design, set up, and deploy NetScaler VPX along with the new Jumbo frames in a virtual environment using your GUI as well as your CLI for both public and private clouds to make all your web applications faster and more secure  
Enrich your networking skills utilizing the new features of AAA by following the instructions to optimize network traffic A step-by-step guide that will show you how to work with the latest NetScaler, 11, by implementing its new features using sample scenarios and real-world examples  
Who This Book Is For This book is for Citrix administrators who are just getting started with NetScaler, have some basic networking skills This book does not require prior experience of NetScaler. What You Will Learn Configure different VPN solutions and learn about ICA Proxy, Unified Gateway and SSL VPN Set up load balancing for SharePoint, Exchange, Lync, SQL and other Citrix components Gain insights into traffic management with NetScaler, Wireshark, and Citrix Insight Protect your web services with an application firewall, HTTP, DOS, and AAA Optimize traffic using front-end optimization, caching, and compression Deploy a high availability environment Use NetScaler in public cloud providers such as Azure or Amazon Advance your network knowledge of TCP and SSL optimization In Detail With a large demand for responsive websites and availability of services, IT administrators are faced with an ever-rising need for services that are optimized for speed. NetScaler VPX is a software-based virtual

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appliance that provides users with the comprehensive NetScaler feature set. Implementing apps and cloud-based services is much easier with its increased service performance and integrated security features. This book will give you an insight into all the new features that NetScaler VPX™ has to offer. Starting off with the basics, you will learn how to set NetScaler up and configure it in a virtual environment including the new features available in version 11, such as unified gateway and portal theme customization. Next, the book will cover how to deploy NetScaler on Azure and Amazon, and you will also discover how to integrate it with an existing Citrix infrastructure. Next, you will venture into other topics such as load balancing Microsoft and Citrix solutions, configuring different forms of high availability Global Server Load Balancing (GSLB), and network optimization. You will also learn how to troubleshoot and analyze data using NetScaler's extensive array of features. Finally, you will discover how to protect web services using an application firewall and will get to grips with other features such as HTTP, DOS, and AAA. Style and approach This easy-to-follow guide is full of detailed step-by-step instructions on how to implement the key components in NetScaler, using real-world examples and sample scenarios.

If you are a Citrix® engineer, a virtualization consultant, or an IT project manager with prior experience of using Citrix XenApp® and related technologies for desktop virtualization and want to further explore the power of XenApp® for flawless desktop virtualization, then this book is for you.

Install, configure, and support your XenApp systems with the power of Citrix XenApp About This Book Familiarize yourself with Citrix applications and desktop virtualization Maintain and troubleshoot your XenApp environment to minimize system downtime A hands-on, step-by-step guide with a practical approach and real-world examples to get you up and running with XenApp

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systems Who This Book Is For This book is intended for IT administrators and consultants who want to build application and desktop virtualization solutions for their employers and customers. No prior knowledge of Citrix technologies is required. What You Will Learn Make the use case for Citrix XenApp and design your first system Prepare your existing IT infrastructure for XenApp and learn what licenses you need Install and configure the XenApp infrastructure Enable access with StoreFront and NetScaler Gateway Enable load balancing with NetScaler Maintain servers and publish applications and desktops Manage printing in a Citrix environment Troubleshoot your environment using advanced tools and methodologies employed by Citrix Escalation Teams In Detail If you want to effectively deploy the various components of Citrix XenApp to create an enterprise environment for application and desktop delivery, this hands-on guide is perfect for you. You start off by understanding the need and benefits of Citrix XenApp with respect to Virtualization technology. After this, you will get to grips with the requirement analysis and designing aspect of building XenApp systems and all the necessary installation and configuration procedures for Citrix XenApp, StoreFront and NetScaler Gateway are explained one by one in detail. Step-by-step, you will learn to deploy your first XenApp with the Machine Creation Services method and Provisioning Services method. After this, you will explore the administering part of applications and systems, followed by printing in the XenApp environment. Next, you will learn all the trips and tricks required to troubleshoot and support the XenApp environment. By the end of this book, you will be ready to go live with your new XenApp environment. Style and approach This is a step-by-step guide to technical implementations in a conversational and easy-to-follow style. Each component is deployed sequentially until a full solution is built. Basic as well as advanced features of the product are explored to appeal to the widest possible audience interested in the topic.

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This book provides an in-depth insight into the new architectures and concepts of current Citrix XenDesktop and XenApp technologies for central provisioning of desktops and applications. It is aimed both at newcomers to the Citrix virtualization world and at those upgrading from previous versions. All the necessary steps for the creation of a design, and the development and operation of a complete, scalable virtualization environment are discussed in a detailed and practical manner. Valuable advice and comprehensive background information also feature in this solution-oriented compendium, making it an indispensable companion for IT-solution architects, consultants and administrators.

Nowadays, many organizations are moving toward desktop virtualization. Citrix® XenDesktop® is the most comprehensive solution to implement a scalable and high performance virtual desktop environment. This book will provide you with the technical skills you need to successfully design, set up, and maintain a XenDesktop® environment. This book will introduce you to the main components of a XenDesktop® infrastructure and covers how to design and install them. Through each chapter, you will quickly learn how to configure your virtual desktop environment in order to meet specific end user requirements, giving your users the freedom to work from anywhere and from any device while virtual desktops and apps are centrally maintained in your data center.

Gain essential knowledge and keep your NetScaler environment in top form About This Book Learn how the main features - Load Balancing, Content Switching, GSLB, SSL offloading, AAA, AppFirewall, and Gateway work under the hood using vividly explained flows and traces Explore the NetScaler layout and the various logs, tools and methods available to help you when it's time to debug An easy-to-follow guide, which will walk you through troubleshooting common issues in your NetScaler environment Who This Book Is For This book is aimed at NetScaler

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administrators who have a basic understanding of the product but are looking for deeper exposure and guidance in identifying and fixing issues to keep their application environment performing optimally. What You Will Learn Troubleshoot traffic management features such as load balancing, SSL, GSLB and content switching Identify issues with caching and compression Deal with authentication issues when using LDAP, RADIUS, certificates, Kerberos and SAML Diagnose NetScaler high availability and networking issues Explore how application firewall protections work and how to avoid false positives Learn about NetScaler Gateway integration issues with XenApp, XenDesktop, and XenMobile Deal with NetScaler system-level issues Discover the NetScaler troubleshooting tools In Detail NetScaler is a high performance Application Delivery Controller (ADC). Making the most of it requires knowledge that straddles the application and networking worlds. As an ADC owner you will also likely be the first person to be solicited when your business applications fail. You will need to be quick in identifying if the problem is with the application, the server, the network, or NetScaler itself. This book provides you with the vital troubleshooting knowledge needed to act fast when issues happen. It gives you a thorough understanding of the NetScaler layout, how it integrates with the network, and what issues to expect when working with the traffic management, authentication, NetScaler Gateway and application firewall features. We will also look at what information to seek out in the logs, how to use tracing, and explore utilities that exist on NetScaler to help you find the root cause of your issues. Style and approach This helpful guide to troubleshooting NetScaler is delivered in a comprehensive and easy-to-follow manner. The topics in the book adopt a step-by-step approach.

Over 40 engaging recipes that will help you implement a full-featured XenDesktop® 7.6 architecture and its main satellite components About This Book Implement, configure, and optimize

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the migration from a physical to a VDI architecture using XenDesktop 7.6 Publish desktops and applications to the end user devices, optimizing their performance and increasing the security for the delivered resources A pragmatic guide that helps you to explore the XenDesktop 7.6 architecture and its related components to implement a service-oriented architecture based on the Citrix FlexCast approach Who This Book Is For If you are a system administrator or an experienced IT professional who wants to refer to a centralized container of procedures and advanced tasks in XenDesktop, this is the book for you. Experience of the virtualized environment and an understanding of the general concepts of desktop virtualization (VDI) are required. What You Will Learn Upgrade from XenDesktop 5.6 / 7.x to XenDesktop 7.6 Configure and deploy virtual machines for XenDesktop 7.6 Perform configuration and optimization operations for desktop and server OS images for future deployments Plan and configure XenDesktop user experience Execute desktop environment administration tasks, including catalog creation, power management, and resource allocation Understand how to publish the hosted applications, Local Access Apps (LAA), and applications using Microsoft App-V Work with XenDesktop PowerShell to reduce the time required to perform the management tasks by the creation of the PowerShell scripts Implement the two-factor hardware and software authentication for XenDesktop Install and configure Citrix Netscaler Gateway 10.5 and Citrix XenMobile 10 to improve the quality, the performance, and the manageability of your Virtual Desktop Infrastructure (VDI) architecture In Detail In the era of Bring Your Own Device (BYOD) and consecration of the mobile devices, Citrix has strengthened its position in this market, powering its desktop and application virtualization platforms, integrating the ability to publish virtual and physical desktops with the capability to assign applications and contents in a secure manner on any device, anywhere, more than previous versions. The XenDesktop 7.6 version is a more integrated platform, which

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permits the use and interaction with mobility and cloud platforms leaders in the market. This book will help you understand how to implement, configure, and optimize migration from a physical to a VDI architecture, moving from a standard application approach to a centralized and more secure way to assign and release resources to the end users. The book begins with the upgrade and installation procedures for the core infrastructural components, along with an explanation of how to deploy and optimize procedures for desktop virtual machines. Moving on, you will perform desktop and applications deployment through the XenDesktop core plus integrated publishing platforms, such as Microsoft App-V. Finally, the book explains how to install and configure important collateral platforms such as the Citrix Netscaler, Citrix CloudBridge and Citrix XenMobile platforms, along with execution of the most advanced activities and configurations. Style and approach This book is a step-by-step course that includes standard and high-level tasks oriented to deploy a full-functioning Citrix environment. This practical approach is based on both GUI and command-line operations, which gives IT professionals an alternative on the way to operate, where possible.

The purpose of this book is to provide a well-organized inventory of Citrix Virtual Apps and Desktops troubleshooting tools and methodologies. It first aims to educate Citrix administrators and users about the various concepts of the Citrix Flexcast Management Architecture (FMA) and to deal with the most frequent issues arising in Citrix Virtual Apps and Desktops environments. This book is addressed to Citrix Virtual Apps and Desktops system administrators, network administrators, technical support technicians and help desk operators as well as to any computer science student or IT hobbyist who wishes to expand their knowledge and skill set in the area of Citrix Virtual Apps and Desktops troubleshooting.

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Install, configure, and support your XenApp systems with the power of Citrix XenApp

**About This Book**

- Familiarize yourself with Citrix applications and desktop virtualization
- Maintain and troubleshoot your XenApp environment to minimize system downtime
- A hands-on, step-by-step guide with a practical approach and real-world examples to get you up and running with XenApp systems

**Who This Book Is For**

This book is intended for IT administrators and consultants who want to build application and desktop virtualization solutions for their employers and customers. No prior knowledge of Citrix technologies is required.

**What You Will Learn**

- Make the use case for Citrix XenApp and design your first system
- Prepare your existing IT infrastructure for XenApp and learn what licenses you need
- Install and configure the XenApp infrastructure
- Enable access with StoreFront and NetScaler Gateway
- Enable load balancing with NetScaler
- Maintain servers and publish applications and desktops
- Manage printing in a Citrix environment
- Troubleshoot your environment using advanced tools and methodologies employed by Citrix Escalation Teams

**In Detail**

If you want to effectively deploy the various components of Citrix XenApp to create an enterprise environment for application and desktop delivery, this hands-on guide is perfect for you. You start off by understanding the need and benefits of Citrix XenApp with respect to Virtualization technology. After this, you will get to grips with the requirement analysis and designing aspect of building XenApp systems and all the necessary installation and configuration procedures for Citrix XenApp, StoreFront and NetScaler Gateway are explained one by one in detail. Step-by-step, you will learn to deploy your first XenApp with the Machine Creation Services method and Provisioning Services method. After this, you will explore the administering part of applications and systems, followed by printing in the XenApp environment. Next, you will learn all the trips and tricks required to troubleshoot and support the XenApp environment. By the end of this book, you will be ready to go live with your new XenApp environment.

**Style and approach**

This is a

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