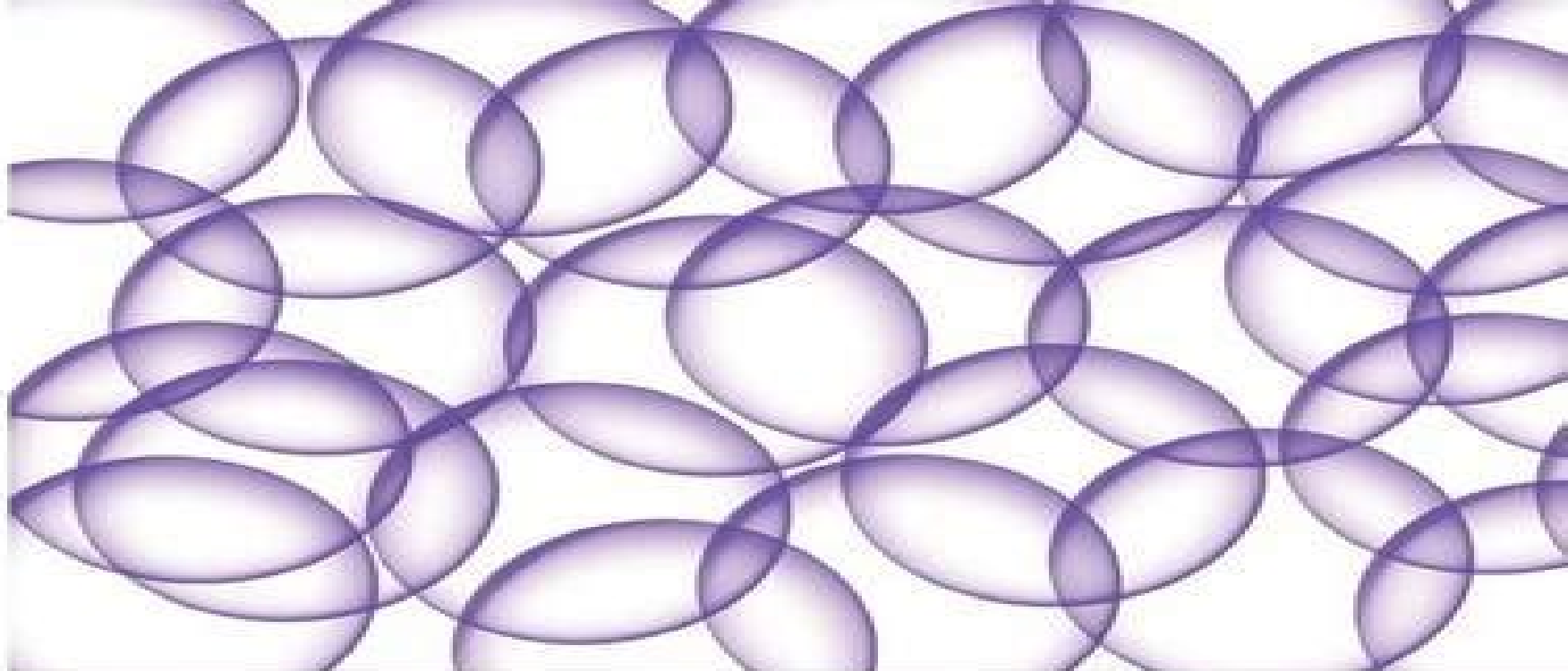




Professional Expertise Distilled

Implementing Cisco UCS Solutions

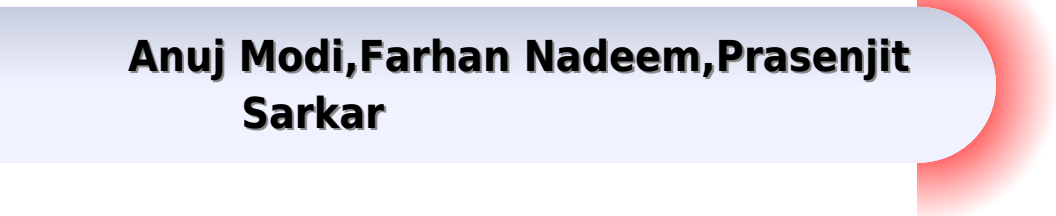
A hands-on guide to implementing solutions in Cisco UCS, as well as deploying servers and application stacks

Farhan Ahmed Nadeem
Prasenjit Sarkar

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Implementing Cisco Ucs Solutions Sarkar Prasenjit

**Anuj Modi, Farhan Nadeem, Prasenjit
Sarkar**



Implementing Cisco Ucs Solutions Sarkar Prasenjit:

Implementing CISCO UCS Solutions - Second Edition Anuj Modi, Farhan Nadeem, Prasenjit Sarkar, 2017-04-27 With the ever increasing complexity and scale of modern data centres powerful solutions are required for their management This is where CISCO UCS solutions come in Cisco Unified Computing System is an integrated data centre architecture It is being widely used to enable centralised management increase efficiency and reduce costs Using real *Implementing Cisco UCS Solutions* Anuj Modi, Farhan Nadeem, Prasenjit Sarkar, 2017-04-27 Discover how to simplify your data center architecture reduces costs and improve speed and agility with Cisco UCS at your side About This Book Learn how to reduce equipment and operating costs consolidate resources and automate data center processes Eliminate manual time consuming tasks that were traditionally required to connect servers in data centers A practical hands on guide that will help you to deploy servers and application stacks with ease Who This Book Is For This book is for system network and storage administrators who are responsible for Cisco UCS deployments You need to have basic knowledge of server architecture network and storage technologies What You Will Learn Set up your Lab using Cisco UCS Emulator Configure Cisco UCS LAN and SAN connectivity Create and manage Service profiles Perform various tasks using UCS Backup and restore Cisco UCS configuration Test various Cisco UCS scenarios Manage and automate multiple domains In Detail Cisco Unified Computer System UCS is a powerful solution for modern data centers and is responsible for increasing efficiency and reducing costs This hands on guide will take you through deployment in Cisco UCS Using real world examples of configuring and deploying Cisco UCS components we ll prepare you for the practical deployments of Cisco UCS data center solutions If you want to develop and enhance your hands on skills with Cisco UCS solutions this book is certainly for you We start by showing you the Cisco UCS equipment options then introduce Cisco UCS Emulator so you can learn and practice deploying Cisco UCS components We ll also introduce you to all the areas of UCS solutions through practical configuration examples Moving on you ll explore the Cisco UCS Manager which is the centralized management interface for Cisco UCS Once you get to know UCS Manager you ll dive deeper into configuring LAN SAN identity pools resource pools and service profiles for the servers You ll also get hands on with administration topics including backup restore user s roles and high availability cluster configuration Finally you will learn about virtualized networking third party integration tools and testing failure scenarios By the end of this book you ll know everything you need to know to rapidly grow Cisco UCS deployments in the real world Style and approach This hands on book takes a tutorial based approach to help you understand the practical methodologies and deployment of Cisco UCS components *Implementing Cisco UCS Solutions* Farhan Ahmed, Prasenjit Sarkar, 2013-12 A tutorial based approach which will help you understand the practical methodologies and deploying of Cisco UCS components If you are a professional such as a system network or storage administrator who is responsible for Cisco UCS deployments this is the perfect book for you You should have some basic knowledge of the server s architecture network and storage

technologies Familiarity with virtualization technologies is also recommended though not necessary as the majority of real world UCS deployments run virtualized loads Knowledge of Nexus OS is not necessary as the majority of the management tasks are handled in a graphical user interface with very few exceptions using the CLI Implementing Cisco UCS Solutions Farhan Ahmed Nadeem,Prasenjit Sarkar,2013-12-26 A tutorial based approach which will help you understand the practical methodologies and deploying of Cisco UCS components If you are a professional such as a system network or storage administrator who is responsible for Cisco UCS deployments this is the perfect book for you You should have some basic knowledge of the server s architecture network and storage technologies Familiarity with virtualization technologies is also recommended though not necessary as the majority of real world UCS deployments run virtualized loads Knowledge of Nexus OS is not necessary as the majority of the management tasks are handled in a graphical user interface with very few exceptions using the CLI *Cisco UCS Cookbook* Victor Wu,2016-03-21 Over 40 practical recipes to get your hands dirty with the powerful Cisco UCS and overcome various challenges About This Book Master the skills of minimizing cost enabling your business to work faster by reducing cycle times for reporting and improving overall revenue Work through hands on recipes for efficient deployment approaches see computing techniques and explore new operational models with UCS Render a better work flow management ensure effective monitoring and learn new deployment paradigms for the operational infrastructure with the help of this book Who This Book Is For This book is for competent system network or storage administrators who are working with Cisco UCS but now want to learn new ways to compute UCS What You Will Learn Familiarize yourself with information on the latest information on memory management practices virtualization architectures and the specific technical advantages of UCS Get a concrete understanding of integrating processes and techniques to ensure effective convergence of LAN SAN Get to know the best practices of Cisco UCS EMC Storage and VMware vSphere Master migrating data from other band servers or Blade to Cisco UCS Comprehend how to replicate and back up UCS to remote sites UCS Assimilate innovative techniques to deploy UCS to leverage its full potential Gather information on installing and configuring automatic and manual Pinning Discover ways to integrate a system in Cisco UCS In Detail Cisco Unified Computing System UCS is a data center server platform that is used for computing deploying and storing resources in data center environments This cookbook aims to teach you about various tasks you can implement to improve your existing method of configuring and deploying UCS You will start by learning how to upgrade your firmware on Brocade and Cisco Fibre Channel Switch and will move on to enhance your knowledge of LAN connectivity We will then discuss how to configure Windows 2008 and 2012 local boot in Cisco UCS Next you will learn how to install the operating system on Cisco UCS and use Cisco UCS Power Calculator to calculate the UCS consumption Finally we ll take a look at backup solutions By the end of the book you will know several ways to build and compute in data center environment using Cisco UCS Style and approach This guide explains every task in a conversational and easy to follow style You can open this book up to the task you

want to learn and will be able to perform that task by the end of the recipe *Cisco Unified Computing System (UCS)*

Silvano Gai, Tommi Salli, Roger Andersson, 2010 The definitive guide to UCS and the Cisco R Data Center Server planning architecture components deployment and benefits With its new Unified Computing System UCS family of products Cisco has introduced a fundamentally new vision for data center computing one that reduces ownership cost improves agility and radically simplifies management In this book three Cisco insiders thoroughly explain UCS and offer practical insights for IT professionals and decision makers who are evaluating or implementing it The authors establish the context for UCS by discussing the implications of virtualization unified I O large memories and other key technologies and showing how trends like cloud computing and green IT will drive the next generation data center Next they take a closer look at the evolution of server CPU memory and I O subsystems covering advances such as the Intel R XEON R 5500 5600 7500 DDR3 memory and unified I O over 10 Gbps Ethernet Building on these fundamentals the authors then discuss UCS in detail showing how it systematically overcomes key limitations of current data center environments They review UCS features components and architecture and demonstrate how it can improve data center performance reliability simplicity flexibility and energy efficiency Along the way they offer realistic planning installation and migration guidance everything decision makers and technical implementers need to gain maximum value from UCS now and for years to come Silvano Gai has spent 11 years as Cisco Fellow architecting Catalyst R MDS and Nexus switches He has written several books on networking written multiple Internet Drafts and RFCs and is responsible for 80 patents and applications He teaches a course on this book s topics at Stanford University Tommi Salli Cisco Technical Marketing Engineer has nearly 20 years of experience with servers and applications at Cisco Sun VERITAS and Nuova Systems Roger Andersson Cisco Manager Technical Marketing spent more than 12 years in the CLARiiON R Engineering Division at EMC and 5 years as Technical Product Manager at VERITAS Symantec He is now focused on Cisco UCS system management Streamline data centers with UCS to systematically reduce cost of ownership Eliminate unnecessary server components and their setup management power cooling and cabling Use UCS to scale service delivery simplify service movement and improve agility Review the latest advances in processor memory I O and virtualization architectures for data center servers Understand the specific technical advantages of UCS Integrate UCS 6100 Fabric Interconnect Cisco UCS 2100 Series Fabric Extenders UCS 5100 Series Blade Server Enclosures UCS B Series Blade Servers UCS C Series Rack Servers and UCS Adapters Use Cisco UCS Manager to manage all Cisco UCS components as a single seamless entity Integrate third party management tools from companies like BMC R CA R EMC R IBM R Microsoft R and VMware R Practice all this with a copy of Cisco Unified Computing System TM Platform Emulator Lite UCSPE Lite on the DVD in the back of the book This book is part of the Networking Technology Series from Cisco Press R which offers networking professionals valuable information for constructing efficient networks understanding new technologies and building successful careers

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