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Configure and
manage basic
components and
supporting devices
Develop the
necessary skill set
to work in today's
virtual world
Virtualization was
initially used to
build test labs, but
its use has
expanded to

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become best practice for a tremendous variety of IT solutions including high availability, business continuity, dynamic IT, and more. Cloud computing and DevOps rely on virtualization technologies, and the exponential

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machine, and
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and explains how
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isolation on Sun
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Server for SPARC
to deploy different
Oracle Solaris 10
and OpenSolaris
environments on

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and Solaris 9
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Essentials security. They also compare and address each leading approach to virtualization: OS virtualization, hypervisor-based virtual machines, and hardware partitioning. The authors illuminate the use of virtualization with many Oracle

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components of an
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other solutions,

including VMware

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architectures for

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agile application
provisioning
without purchasing
unnecessary
infrastructure, and
establish a strong
foundation for new
cloud computing
and IT-as-a-service
initiatives.

Throughout,
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illuminates key
theoretical

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concepts through
realistic use cases,
real-world designs,
illustrative
configuration
examples, and
verification
outputs.

Appendixes
provide valuable
reference
information,
including relevant
Cisco data center

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products and CLI
principles for IOS
and NX-OS. With
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data center

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Understand the key

characteristics and

value of each data

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PortChannel and

FabricPath to

overcome the

limits of STP

Optimize cabling

and network

management with

fabric extender

(FEX) virtualized

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sites using MPLS
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challenges Improve
SAN data

protection,
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isolation, and
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through Data
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radically simplify
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environments
Create server
profiles that
streamline "bare
metal" server

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Leverage
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more efficiently
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virtualization

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valuable asset for
potential

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distracted with the
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thus enabling you
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successful
deployments. A
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This book takes a learning-by-doing approach to give you hands-on training and a core understanding of virtualization.

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Develop the necessary skill set to work in today's virtual world
Virtualization was

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throughout their

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explores all

components of an

end-to-end data

center

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virtualization
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solution, including
networking,
storage, servers,
operating systems,
application
optimization, and
security. Rather
than focusing on a
single product or
technology, he
explores product
capabilities as
interoperable

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Essentials projects. By doing so, you can deliver agile application provisioning without purchasing unnecessary infrastructure, and establish a strong foundation for new cloud computing and IT-as-a-service initiatives.

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Essentials illuminates key theoretical concepts through realistic use cases, real-world designs, illustrative configuration examples, and verification outputs.

Appendixes provide valuable reference information,

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environment
isolation, and
scalability
Consolidate I/O
through Data
Center Bridging
and FCoE Use
virtualization to
radically simplify
server
environments
Create server
profiles that
streamline "bare

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metal" server
provisioning
"Transcend the
rack" through
virtualized
networking based
on Nexus 1000V
and VM-FEX
Leverage
opportunities to
deploy virtual
network services
more efficiently
Evolve data center

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complete,

practical, and up-to-
date guide to
selecting,

implementing, and
applying today's

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virtualization technologies to real-world business problems. Four Oracle experts thoroughly cover current Oracle Solaris virtualization options. They help you understand key use cases, including

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workloads,
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testing/staging,
workload mobility,
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provisioning,
scalability, fine-
grained OS
changes, and
security. They also
compare and

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Essentials
address each leading approach to virtualization: OS virtualization, hypervisor-based virtual machines, and hardware partitioning. The authors illuminate the use of virtualization with many Oracle software applications and

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engineered systems, including SuperCluster, Secure Enterprise Cloud Infrastructure, Exalytics, Oracle Database, and security hardening scenarios. Bringing together case study examples and in-the-trenches experience, this

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Essentials
guide explains how
to Leverage Oracle
Solaris Zones to
improve security,
deployment,
resource usage,
and management
Use Logical
Domains to deploy
different versions
of Oracle Solaris on
SPARC systems
Maximize workload
isolation on SPARC

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systems with

Physical Domains
Use Oracle Solaris
Zones to optimize
workload efficiency
and scalability
Improve data
center flexibility
with live migration
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software in
heterogeneous
environments with
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which create
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systems running on
a single operating
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many system
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guide covers the
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