



The Policy Driven Data Center with ACI: Architecture, Concepts, and Methodology (Networking Technology)

By Lucien Avramov, Maurizio Portolani

 Download

 Read Online

The Policy Driven Data Center with ACI: Architecture, Concepts, and Methodology (Networking Technology) By Lucien Avramov, Maurizio Portolani

Use policies and Cisco® ACI to make data centers more flexible and configurable—and deliver far more business value. Using the policy driven data center approach, networking professionals can accelerate and simplify changes to the data center, construction of cloud infrastructure, and delivery of new applications. As you improve data center flexibility, agility, and portability, you can deliver far more business value, far more rapidly.

In this guide, Cisco data center experts Lucien Avramov and Maurizio Portolani show how to achieve all these benefits with Cisco Application Centric Infrastructure (ACI) and technologies such as python, REST, and OpenStack. The authors explain the advantages, architecture, theory, concepts, and methodology of the policy driven data center. Next, they demonstrate the use of python scripts and REST to automate network management and simplify customization in ACI environments.

Drawing on experience deploying ACI in enterprise data centers, the authors review design considerations and implementation methodologies. You will find design considerations for virtualized datacenters, high performance computing, ultra-low latency environments, and large-scale data centers. The authors walk through building multi-hypervisor and bare-metal infrastructures, demonstrate service integration, and introduce advanced telemetry capabilities for troubleshooting.

Leverage the architectural and management innovations built into Cisco® Application Centric Infrastructure (ACI)

- Understand the policy driven data center model
- Use policies to meet the network performance and design requirements of modern data center and cloud environments
- Quickly map hardware and software capabilities to application deployments using graphical tools—or programmatically, via the Cisco APIC API

- Increase application velocity: reduce the time needed to move applications into production
- Define workload connectivity instead of (or along with) subnets, VLAN stitching, and ACLs
- Use Python scripts and REST to automate policy changes, parsing, customization, and self-service
- Design policy-driven data centers that support hypervisors
- Integrate OpenStack via the Cisco ACI APIC OpenStack driver architecture
- Master all facets of building and operating multipurpose cloud architectures with ACI
- Configure ACI fabric topology as an infrastructure or tenant administrator
- Insert Layer 4–Layer 7 functions using service graphs
- Leverage centralized telemetry to optimize performance; find and resolve problems
- Understand and familiarize yourself with the paradigms of programmable policy driven networks

 [Download The Policy Driven Data Center with ACI: Architectu ...pdf](#)

 [Read Online The Policy Driven Data Center with ACI: Architec ...pdf](#)

The Policy Driven Data Center with ACI: Architecture, Concepts, and Methodology (Networking Technology)

By Lucien Avramov, Maurizio Portolani

The Policy Driven Data Center with ACI: Architecture, Concepts, and Methodology (Networking Technology) By Lucien Avramov, Maurizio Portolani

Use policies and Cisco® ACI to make data centers more flexible and configurable—and deliver far more business value

Using the policy driven data center approach, networking professionals can accelerate and simplify changes to the data center, construction of cloud infrastructure, and delivery of new applications. As you improve data center flexibility, agility, and portability, you can deliver far more business value, far more rapidly.

In this guide, Cisco data center experts Lucien Avramov and Maurizio Portolani show how to achieve all these benefits with Cisco Application Centric Infrastructure (ACI) and technologies such as python, REST, and OpenStack. The authors explain the advantages, architecture, theory, concepts, and methodology of the policy driven data center. Next, they demonstrate the use of python scripts and REST to automate network management and simplify customization in ACI environments.

Drawing on experience deploying ACI in enterprise data centers, the authors review design considerations and implementation methodologies. You will find design considerations for virtualized datacenters, high performance computing, ultra-low latency environments, and large-scale data centers. The authors walk through building multi-hypervisor and bare-metal infrastructures, demonstrate service integration, and introduce advanced telemetry capabilities for troubleshooting.

Leverage the architectural and management innovations built into Cisco® Application Centric Infrastructure (ACI)

- Understand the policy driven data center model
- Use policies to meet the network performance and design requirements of modern data center and cloud environments
- Quickly map hardware and software capabilities to application deployments using graphical tools—or programmatically, via the Cisco APIC API
- Increase application velocity: reduce the time needed to move applications into production
- Define workload connectivity instead of (or along with) subnets, VLAN stitching, and ACLs
- Use Python scripts and REST to automate policy changes, parsing, customization, and self-service
- Design policy-driven data centers that support hypervisors
- Integrate OpenStack via the Cisco ACI APIC OpenStack driver architecture
- Master all facets of building and operating multipurpose cloud architectures with ACI
- Configure ACI fabric topology as an infrastructure or tenant administrator
- Insert Layer 4–Layer 7 functions using service graphs
- Leverage centralized telemetry to optimize performance; find and resolve problems
- Understand and familiarize yourself with the paradigms of programmable policy driven networks

The Policy Driven Data Center with ACI: Architecture, Concepts, and Methodology (Networking Technology) By Lucien Avramov, Maurizio Portolani Bibliography

- Sales Rank: #248348 in Books
- Published on: 2014-12-31
- Original language: English
- Number of items: 1
- Dimensions: 9.00" h x .80" w x 7.30" l, .0 pounds
- Binding: Paperback
- 384 pages

 [Download The Policy Driven Data Center with ACI: Architectu ...pdf](#)

 [Read Online The Policy Driven Data Center with ACI: Architec ...pdf](#)

Download and Read Free Online The Policy Driven Data Center with ACI: Architecture, Concepts, and Methodology (Networking Technology) By Lucien Avramov, Maurizio Portolani

Editorial Review

About the Author

Lucien Avramov, CCIE 19945, is a Senior Technical Marketing Engineer at Cisco. Lucien specializes in the Nexus data center portfolio and the ACI. Lucien designs datacenter networks worldwide and has a wide experience in switch architectures, QoS, ultra-low latency networks, high-performance computing designs, and OpenStack. Lucien is a distinguished Cisco Live speaker and former TAC technical leader, he has several industry certifications, authors RFCs at IETF, and owns an active patent. Lucien holds a master's degree in Computer Science and a bachelor's degree in General Engineering from Ecole des Mines d'Ales, France. In his spare time, Lucien can be found hiking, biking, running marathons around the world, and on Twitter: @flying91.

Maurizio Portolani, Distinguished Technical Marketing Engineer at Cisco Systems, focuses on the design of data center networks. He coauthored *Data Center Fundamentals* for Cisco Press, and holds several patents on current data center technologies. He attended the Politecnico of Torino ("Laurea in Ingegneria") and Ecole Centrale Paris ("Diplôme d'Ingénieur") where he majored in Electronics.

Users Review

From reader reviews:

Nancy Smith:

This The Policy Driven Data Center with ACI: Architecture, Concepts, and Methodology (Networking Technology) book is not really ordinary book, you have it then the world is in your hands. The benefit you will get by reading this book is actually information inside this publication incredible fresh, you will get facts which is getting deeper a person read a lot of information you will get. That The Policy Driven Data Center with ACI: Architecture, Concepts, and Methodology (Networking Technology) without we recognize teach the one who reading through it become critical in thinking and analyzing. Don't be worry The Policy Driven Data Center with ACI: Architecture, Concepts, and Methodology (Networking Technology) can bring if you are and not make your bag space or bookshelves' come to be full because you can have it in the lovely laptop even phone. This The Policy Driven Data Center with ACI: Architecture, Concepts, and Methodology (Networking Technology) having excellent arrangement in word along with layout, so you will not feel uninterested in reading.

Leslie Padilla:

Are you kind of stressful person, only have 10 as well as 15 minute in your morning to upgrading your mind talent or thinking skill also analytical thinking? Then you are receiving problem with the book than can satisfy your short period of time to read it because pretty much everything time you only find guide that need more time to be examine. The Policy Driven Data Center with ACI: Architecture, Concepts, and Methodology (Networking Technology) can be your answer given it can be read by anyone who have those short extra time problems.

Ann Gonzalez:

In this age globalization it is important to someone to receive information. The information will make someone to understand the condition of the world. The fitness of the world makes the information quicker to share. You can find a lot of referrals to get information example: internet, classifieds, book, and soon. You will observe that now, a lot of publisher which print many kinds of book. Typically the book that recommended to you is The Policy Driven Data Center with ACI: Architecture, Concepts, and Methodology (Networking Technology) this guide consist a lot of the information from the condition of this world now. This specific book was represented how does the world has grown up. The language styles that writer make usage of to explain it is easy to understand. The writer made some research when he makes this book. That's why this book acceptable all of you.

Hazel Makowski:

Don't be worry should you be afraid that this book will certainly filled the space in your house, you might have it in e-book technique, more simple and reachable. This specific The Policy Driven Data Center with ACI: Architecture, Concepts, and Methodology (Networking Technology) can give you a lot of friends because by you investigating this one book you have issue that they don't and make you more like an interesting person. This kind of book can be one of one step for you to get success. This book offer you information that possibly your friend doesn't learn, by knowing more than various other make you to be great persons. So , why hesitate? We need to have The Policy Driven Data Center with ACI: Architecture, Concepts, and Methodology (Networking Technology).

**Download and Read Online The Policy Driven Data Center with
ACI: Architecture, Concepts, and Methodology (Networking
Technology) By Lucien Avramov, Maurizio Portolani
#8YNLGKQ95XD**

Read The Policy Driven Data Center with ACI: Architecture, Concepts, and Methodology (Networking Technology) By Lucien Avramov, Maurizio Portolani for online ebook

The Policy Driven Data Center with ACI: Architecture, Concepts, and Methodology (Networking Technology) By Lucien Avramov, Maurizio Portolani Free PDF d0wnl0ad, audio books, books to read, good books to read, cheap books, good books, online books, books online, book reviews epub, read books online, books to read online, online library, greatbooks to read, PDF best books to read, top books to read The Policy Driven Data Center with ACI: Architecture, Concepts, and Methodology (Networking Technology) By Lucien Avramov, Maurizio Portolani books to read online.

Online The Policy Driven Data Center with ACI: Architecture, Concepts, and Methodology (Networking Technology) By Lucien Avramov, Maurizio Portolani ebook PDF download

The Policy Driven Data Center with ACI: Architecture, Concepts, and Methodology (Networking Technology) By Lucien Avramov, Maurizio Portolani Doc

The Policy Driven Data Center with ACI: Architecture, Concepts, and Methodology (Networking Technology) By Lucien Avramov, Maurizio Portolani Mobipocket

The Policy Driven Data Center with ACI: Architecture, Concepts, and Methodology (Networking Technology) By Lucien Avramov, Maurizio Portolani EPub