

# Journey To The Sddc

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## KYLEIGH ARMSTRONG

*Virtualizing SQL Server with VMware* IBM Redbooks  
Master your virtual environment with the ultimate vSphere guide  
Mastering VMware vSphere 6.7 is the fully updated edition of the bestselling guide to VMware's virtualization solution. With comprehensive coverage of this industry-leading toolset, this book acts as an informative guide and valuable reference. Step-by-step instruction walks you through installation, configuration, operation, security processes, and much more as you conquer the management and automation of your virtual environment. Written by certified VMware vExperts, this indispensable guide provides hands-on instruction and detailed conceptual explanations, anchored by practical applications and real-world examples. This book is the ultimate guide to vSphere, helping administrators master their virtual environment. Learn to: Install, configure, and manage the vCenter Server components Leverage the Support Tools to provide maintenance and updates Create and configure virtual networks, storage devices, and virtual machines Implement the latest features to ensure compatibility and flexibility Manage resource allocation and utilization to meet application needs Monitor infrastructure performance and availability Automate and orchestrate routine administrative tasks  
Mastering VMware vSphere 6.7 is what you need to stay up-to-date on VMware's industry-leading software for the virtualized datacenter.

*Make: Electronics* Pearson Education

Learn the fundamentals of vRealize Automation to accelerate the delivery of your IT services About This Book Learn to install the

vRealize Automation product in a distributed architecture using a load balancer Plan backup and recovery strategies for every vRealize automation component Use vRealize Automation to manage applications and improve operational efficiency using this simple and intuitive guide Who This Book Is For This book is for anyone who wants to start their journey with vRealize Automation. It is your one-stop instruction guide to installing and configuring a distributed setup using NSX load balancer. Regardless of whether or not you have used vRealize Automation before, following the steps provided in each chapter will get you started with the product. What You Will Learn Understand the basic building blocks of vRealize Automation before embarking on the journey of installation Familiarize yourself with the requirements and steps that need to be performed during the first phase of the distributed installation Carry out a functional validation of the first phase of installation before completing the installation Build a blueprint for vSphere endpoint, an essential step for a successful deployment of a service catalog Create, configure, and deploy tenants, endpoints, blueprints, and the service catalog Get to grips with the failover process for all components in vRealize Automation Learn to configure the NSX loadbalancer for vRealize Orchestrator for high availability Leverage ASD to develop XaaS (Anything as a Service) in vRealize Automation to deliver valuable competence In Detail With the growing interest in Software Defined Data Centers (SDDC), vRealize Automation offers data center users an organized service catalog and governance for administrators. This way, end users gain autonomy while the IT department stays in control, making sure security and compliance requirements are met. Learning what each component does and how they dovetail with each other will bolster your understanding of vRealize Automation. The

book starts off with an introduction to the distributed architecture that has been tested and installed in large scale deployments. Implementing and configuring distributed architecture with custom certificates is unarguably a demanding task, and it will be covered next. After this, we will progress with the installation. A vRealize Automation blueprint can be prepared in multiple ways; we will focus solely on vSphere endpoint blueprint. After this, we will discuss the high availability configuration via NSX loadbalancer for vRealize Orchestrator. Finally, we end with Advanced Service Designer, which provides service architects with the ability to create advanced services and publish them as catalog items. Style and approach This book takes a step-by-step approach, is explained in a conversational and easy-to-follow style, and includes ample screenshots. Each topic is explained sequentially through planning, preparing, installing, configuring, and validating of all vRealize Automation's components.  
*Software Defined Data Center with Red Hat Cloud and Open Source IT Operations Management* Packt Publishing  
If you are an IT professional who is interested in performance management and capacity management in a virtual data center, then this book is ideal for you. The book is an intermediate-level book.

**VCA-DCV Official Cert Guide** Pearson Education

In the summer of 1900, bands of peasant youths from the villages of north China streamed into Beijing to besiege the foreign legations, attracting the attention of the entire world. Joseph Esherick reconstructs the early history of the Boxers, challenging the traditional view that they grew from earlier anti-dynastic sects, and stressing instead the impact of social ecology and popular culture.

*Software-Defined Data Infrastructure Essentials* Springer Nature

Master SDDC Operations with proven best practices About This Book Understand the drawbacks of the traditional paradigm and management that make operations difficult in SDDC Master performance and capacity management in Software-Defined Data Center Operationalize performance and capacity monitoring with proven dashboards Who This Book Is For This book is primarily for any system administrator or cloud infrastructure specialist who is interested in performance management and capacity management using VMware technologies. This book will also help IT professionals whose area of responsibility is not VMware, but who work with the VMware team. You can be Windows, Linux, Storage, or Network team; or application architects. Note that prior exposure to the VMware platform of data-center and cloud-based solutions is expected. What You Will Learn Simplify the task of performance and capacity management Master the counters in vCenter and vRealize Operations and understand their dependency on one another Educate your peers and management on SDDC Operations Complete your SDDC monitoring to include non-VMware components Perform SDDC performance troubleshooting Explore real-life examples of how super metric and advanced dashboards Introduce and implement a Performance SLA Accomplish your Capacity Management by taking into service tiering and performance SLA In Detail Performance management and capacity management are the two top-most issues faced by enterprise IT when doing virtualization. Until the first edition of the book, there was no in-depth coverage on the topic to tackle the issues systematically. The second edition expands the first edition, with added information and reorganizing the book into three logical parts. The first part provides the technical foundation of SDDC Management. It explains the difference between a software-defined data center and a classic physical data center, and how it impacts both architecture and operations. From this strategic view, it zooms into the most common challenges—performance management and capacity management. It introduces a new concept called Performance SLA and also a new way of doing capacity management. The next part provides the actual solution that you can implement in your environment. It puts the theories together and provides real-life examples created together with customers. It provides the reasons behind each dashboard, so that you get the understanding on why it is required and what problem it

solves. The last part acts as a reference section. It provides a complete reference to vSphere and vRealize Operations counters, explaining their dependencies and providing practical guidance on the values you should expect in a healthy environment. Style and approach This book covers the complex topic of managing performance and capacity in an easy-to-follow style. It relates real-world scenarios to topics in order to help you implement the book's teachings on the go.

**Mastering VMware Vsphere 6.5** Packt Publishing Ltd Enhance your virtualization skills by mastering storage and network virtualization with automation across different Clouds Key Features Migrate and build your applications in Hybrid Cloud with VMware Cross Cloud components and services Gain in-depth configuration insights of VMware Cross Cloud architecture Learn to migrate applications from VMware to AWS and IBM Cloud Book Description Over the past two decades, VMware vSphere has been known as the most trusted and reliable virtualization platform. VMware Cross-Cloud Architecture shows you how to design and configure Cross Cloud Architecture by using VMware Cloud Foundation and vRealize Suite with various use cases across private, public, and hybrid Cloud. This book takes you through everything from a basic understanding of virtualization to advanced aspects of storage and network virtualization, clustering, automation, and management. This book will be your guide to designing all aspects of Cloud. We start with the challenges faced by a traditional data center, define problem statements for you, and then brief you on respective solutions. Moving on, all kinds of virtualization and Cloud offerings from AWS and IBM Soft Layer are introduced and discussed in detail. Then, you'll learn how to design IT infrastructures for new and existing applications with a combination of Cloud Foundation, vRealize Suite, and vSphere enabled with VSAN and NSX. Furthermore, you'll learn how to design and configure high availability, disaster recovery, and apply an appropriate compliance matrix. Toward the end of the book, you will learn how to calculate the TCO/ROI, along with the VMware products packaging and licensing in detail. What you will learn Install and configure the Cloud foundation with Cross-Cloud services Configure vSphere high availability with the vCenter redundancy setup Architect and configure VMware with AWS Cloud Deploy VMware components in IBM Soft Layer Extend your DR setup with

VMware to consume DRaaS Design and configure software-defined networking Implement compliance regulations to fix violations Who this book is for This book is for administrators, Cloud architects and network engineers who want to globalize their infrastructure using VMware and AWS services. An initial setup of workloads and data center is beneficial.

*Learning VMware vRealize Automation* Packt Publishing Ltd This book looks at various application and data demand drivers, along with data infrastructure options from legacy on premise, public cloud, hybrid, software-defined data center (SDDC), software data infrastructure (SDI), container as well as serverless along with infrastructure as a Service (IaaS), IT as a Service (ITaaS) along with related technology, trends, tools, techniques and strategies. Filled with example scenarios, tips and strategy considerations, the book covers frequently asked questions and answers to aid strategy as well as decision-making.

*Design Tools and Methods in Industrial Engineering* CRC Press Use self-driven data centers to reduce management complexity by deploying Infrastructure as Code to gain value from investments. Key Features Add smart capabilities in VMware Workspace ONE to deliver customer insights and improve overall security Optimize your HPC and big data infrastructure with the help of machine learning Automate your VMware data center operations with machine learning Book Description This book presents an introductory perspective on how machine learning plays an important role in a VMware environment. It offers a basic understanding of how to leverage machine learning primitives, along with a deeper look into integration with the VMware tools used for automation today. This book begins by highlighting how VMware addresses business issues related to its workforce, customers, and partners with emerging technologies such as machine learning to create new, intelligence-driven, end user experiences. You will learn how to apply machine learning techniques incorporated in VMware solutions for data center operations. You will go through management toolsets with a focus on machine learning techniques. At the end of the book, you will learn how the new vSphere Scale-Out edition can be used to ensure that HPC, big data performance, and other requirements can be met (either through development or by fine-tuning guidelines) with mainstream products. What you will learn Orchestrate on-demand deployments based on defined

policiesAutomate away common problems and make life easier by reducing errors Deliver services to end users rather than to virtual machinesReduce rework in a multi-layered scalable manner in any cloudExplore the centralized life cycle management of hybrid cloudsUse common code so you can run it across any cloud Who this book is for This book is intended for those planning, designing, and implementing the virtualization/cloud components of the Software-Defined Data Center foundational infrastructure. It helps users to put intelligence in their automation tasks to get self driving data center. It is assumed that the reader has knowledge of, and some familiarity with, virtualization concepts and related topics, including storage, security, and networking.

*Docker Deep Dive* VMWare Press

This authoritative text/reference describes the state of the art in requirements engineering for software systems for distributed computing. A particular focus is placed on integrated solutions, which take into account the requirements of scalability, flexibility, sustainability and operability for distributed environments. Topics and features: discusses the latest developments, tools, technologies and trends in software requirements engineering; reviews the relevant theoretical frameworks, practical approaches and methodologies for service requirements; examines the three key components of the requirements engineering process, namely requirements elicitation, requirements specification, and requirements validation and evaluation; presents detailed contributions from an international selection of highly reputed experts in the field; offers guidance on best practices, and suggests directions for further research in the area.

*Azure Stack Hub Demystified* Univ of California Press

What do you wear to meet your father for the first time? In 2004, Hannah Pool knew more about next season's lipstick colors than she did about Africa: a beauty editor for The Guardian newspaper, she juggled lattes and cocktails, handbags and hangouts through her twenties just like any other beautiful, independent Londoner. Her white, English adoptive relatives were beloved to her and were all the family she needed. Okay, if I treat it as a first date, then I'm on home turf. What image do I want to put across?...Classic, rather than trendy, and if my G-string doesn't pop out, I should be able to carry the whole thing off. Contacted by relatives she didn't know she had, she decided to visit Eritrea, the war-torn African country of her birth, and answer for herself

the daunting questions every adopted child asks. Imagine what it's like to never have seen another woman or man from your own family. To spend your life looking for clues in the faces of strangers...We all need to know why we were given up. What Hannah Pool learned on her journey forms a narrative of insight, wisdom, wit, and warmth beyond all expectations. When I stepped off the plane in Asmara, I had no idea what lay ahead, or how those events would change me, and if I'd thought about it too hard I probably wouldn't have gotten farther than the baggage claim. A story that will "send shivers down [your] spine," (The Bookseller), My Fathers' Daughter follows Hannah Pool's brave and heartbreaking return to Africa to meet the family she lost -- and the father she thought was dead.

**Virtualize Oracle Business Critical Databases** Lulu.com

Make the most of software-defined data centers with revolutionary VMware technologies About This Book Learn how you can automate your data center operations and deploy and manage applications and services across your public, private, and hybrid infrastructure in minutes Drive great business results with cost-effective solutions without compromising on ease, security, and controls Transform your business processes and operations in a way that delivers any application, anywhere, with complete peace of mind Who This Book Is For If you are an IT professional or VMware administrator who virtualizes data centers and IT infrastructures, this book is for you. Developers and DevOps engineers who deploy applications and services would also find this book useful. Data center architects and those at the CXO level who make decisions will appreciate the value in the content. What You Will Learn Understand and optimize end-to-end processes in your data center Translate IT processes and business needs into a technical design Apply and create vRO workflow automation functionalities to services Deploy NSX in a virtual environment Technically accomplish DevOps offerings Set up and use vROPs to master the SDDC resource demands Troubleshoot all the components of SDDC In Detail VMware offers the industry-leading software-defined data center (SDDC) architecture that combines compute, storage, networking, and management offerings into a single unified platform. This book uses the most up-to-date, cutting-edge VMware products to help you deliver a complete unified hybrid cloud experience within your infrastructure. It will help you build a unified hybrid cloud based

on SDDC architecture and practices to deliver a fully virtualized infrastructure with cost-effective IT outcomes. In the process, you will use some of the most advanced VMware products such as vSphere, VCloud, and NSX. You will learn how to use vSphere virtualization in a software-defined approach, which will help you to achieve a fully-virtualized infrastructure and to extend this infrastructure for compute, network, and storage-related data center services. You will also learn how to use EVO:RAIL. Next, you will see how to provision applications and IT services on private clouds or IaaS with seamless accessibility and mobility across the hybrid environment. This book will ensure you develop an SDDC approach for your datacenter that fulfills your organization's needs and tremendously boosts your agility and flexibility. It will also teach you how to draft, design, and deploy toolsets and software to automate your datacenter and speed up IT delivery to meet your lines of businesses demands. At the end, you will build unified hybrid clouds that dramatically boost your IT outcomes. Style and approach With the ever-changing nature of businesses and enterprises, having the capability to navigate through the complexities is of utmost importance. This book takes an approach that combines industry expertise with revolutionary VMware products to deliver a complete SDDC experience through practical examples and techniques, with proven cost-effective benefits.

*Mastering VMware vSphere 6.7* Packt Publishing Ltd

The inside guide to the next generation of data storage technology VMware Software-Defined Storage, A Guide to the Policy Driven, Software-Defined Storage Era presents the most in-depth look at VMware's next-generation storage technology to help solutions architects and operational teams maximize quality storage design. Written by a double VMware Certified Design Expert, this book delves into the design factors and capabilities of Virtual SAN and Virtual Volumes to provide a uniquely detailed examination of the software-defined storage model. Storage-as-a-Service (STaaS) is discussed in terms of deployment through VMware technology, with insight into the provisioning of storage resources and operational management, while legacy storage and storage protocol concepts provide context and demonstrate how Virtual SAN and Virtual Volumes are meeting traditional challenges. The discussion on architecture emphasizes the economies of storage alongside specific design factors for next-

generation VMware based storage solutions, and is followed by an example in which a solution is created based on the preferred option identified from a selection of cross-site design options. Storage hardware lifecycle management is an ongoing challenge for IT organizations and service providers. VMware is addressing these challenges through the software-defined storage model and Virtual SAN and Virtual Volumes technologies; this book provides unprecedented detail and expert guidance on the future of storage. Understand the architectural design factors of VMware-based storage Learn best practices for Virtual SAN stretched architecture implementation Deploy STaaS through vRealize Automation and vRealize Orchestrator Meet traditional storage challenges with next-generation storage technology Virtual SAN and Virtual Volumes are leading the way in efficiency, automation, and simplification, while maintaining enterprise-class features and performance. As organizations around the world are looking to cut costs without sacrificing performance, availability, or scalability, VMware-based next-generation storage solutions are the ideal platform for tomorrow's virtual infrastructure. VMware Software-Defined Storage provides detailed, practical guidance on the model that is set to transform all aspects of vSphere data center storage.

**Cloud Computing with Security and Scalability.** Packt Publishing

Deliver great business value by adopting the virtualization platform VMware vSphere 6.5, from the design to the deployment About This Book This new edition is based on vSphere 6.5 and has described new features in different areas, including management, security, scalability, availability and so on. Design, deploy and manage VMware datacenters Implement monitoring and security of VMware workloads with ease. Who This Book Is For If you are an administrator, infrastructure engineer, IT architect, or an IT consultant and analyst who has basic knowledge of VMware vSphere and now wants to master it, then this book is for you. What You Will Learn Get a deep understanding of vSphere 6.5 functionalities Design and plan a virtualization environment based on vSphere 6.5 Manage and administer a vSphere 6.5 environment and resources Get tips for the VCP6-DCV and VCIX6-DCV exams (along with use of the vSphere 6 documentation) Implement different migration techniques to move your workload across different environments. Save your configuration, data and

workload from your virtual infrastructure. In Detail VMware vSphere 6.5 provides a powerful, flexible and secure foundation for next-generation applications which helps you create an effective digital transformation. This book will be based on VMware vSphere 6.5 which empowers you to virtualize any complex application with ease. You'll begin by getting an overview of all the products, solutions and features of the vSphere 6.5 suite, comparing the evolutions with the previous releases. Next, you'll design and plan a virtualization infrastructure to drive planning and performance analysis. Following this, you will be proceeding with workflow and installation of components. New network trends are also covered which will help you in optimally designing the vSphere environment. You will also learn the practices and procedures involved in configuring and managing virtual machines in a vSphere infrastructure. With vSphere 6.5, you'll make use of significantly more powerful capabilities for patching, upgrading, and managing the configuration of the virtual environment. Next we'll focus on specific availability and resiliency solutions in vSphere. Towards the end of the book you will get information on how to save your configuration, data and workload from your virtual infrastructure. By the end of the book you'll learn about VMware vSphere 6.5 right from design to deployment and management. Style and Approach This book acts as a reference guide providing real-world scenarios and a possible baseline for each virtualization project based on VMware vSphere.

Global Reach CRC Press

This book provides readers with an overview of Cloud Computing, starting with historical background on mainframe computers and early networking protocols, leading to current concerns such as hardware and systems security, performance, emerging areas of IoT, Edge Computing, and healthcare etc. Readers will benefit from the in-depth discussion of cloud computing usage and the underlying architectures. The authors explain carefully the "why's and how's" of Cloud Computing, so engineers will find this book an invaluable source of information to the topic. This third edition includes new material on Cloud Computing Scalability, as well as best practices for using dynamic cloud infrastructure, and cloud operations management with cost optimizations. Several new examples and analysis of cloud security have been added, including ARM architecture and https protocol. Provides practical

guidance for software developers engaged in migrating in-house applications to Public Cloud; Describes for IT managers how to improve their Cloud Computing infrastructures; Includes coverage of security concerns with Cloud operating models; Uses several case studies to illustrate the "why's and how's" of using the Cloud; Examples and options to improve Cloud Computing Scalability.

**Translog** Springer

Virtualize Oracle Business Critical Databases, October 2018

Update: This book is a single source of information for an Oracle DBA to understand the benefits of virtualization and how to effectively deploy Oracle Databases on VMware's SDDC platform. This book is targeted for DBAs looking at implementing Oracle on a virtualized infrastructure. Key topics include deployment, scaling, troubleshooting and performance tuning. The authors, Charles Kim, George Trujillo, Steven Jones and Sudhir Balasubramanian, have spent a number of years focusing on virtualizing Tier-One high performance Oracle platforms. The authors include VMware VCPs, VMware vExperts as well as an Oracle ACE, Oracle ACE Director and hold certifications in the Oracle stack. Imagine a world where your system administrator(s) provisions a fully functional Linux server that is patched with all the up-to-date kernel parameters, updated device drivers, and updated configurations in 1 hour. The time that you make the request to the time that you get access to a server that has a fully configured Red Hat 6/7 or Oracle Linux 6/7 environment is within a couple of hours. On top of all this, the build is consistent and reliable every time. This should be a realistic goal for most companies today, and this book can guide you along your journey.

*Mastering VMware vSphere 6.5* Packt Publishing Ltd

Software-Defined Data Infrastructures Essentials provides fundamental coverage of physical, cloud, converged, and virtual server storage I/O networking technologies, trends, tools, techniques, and tradecraft skills. From webscale, software-defined, containers, database, key-value store, cloud, and enterprise to small or medium-size business, the book is filled with techniques, and tips to help develop or refine your server storage I/O hardware, software, and services skills. Whether you are new to data infrastructures or a seasoned pro, you will find this comprehensive reference indispensable for gaining as well as

expanding experience with technologies, tools, techniques, and trends. We had a front row seat watching Greg present live in our education workshop seminar sessions for ITC professionals in the Netherlands material that is in this book. We recommend this amazing book to expand your converged and data infrastructure knowledge from beginners to industry veterans. —Gert and Frank Brouwer, Brouwer Storage Consultancy Software-Defined Data Infrastructures Essentials provides the foundational building blocks to improve your craft in several areas including applications, clouds, legacy, and more. IT professionals, as well as sales professionals and support personnel, stand to gain a great deal by reading this book.—Mark McSherry, Oracle Regional Sales Manager Looking to expand your data infrastructure IQ? From CIOs to operations, sales to engineering, this book is a comprehensive reference, a must read for IT infrastructure professionals, beginners to seasoned experts.—Tom Becchetti, Advisory Systems Engineer Greg Schulz has provided a complete ‘toolkit’ for storage management along with the background and framework for the storage or data infrastructure professional or those aspiring to become one.—Greg Brunton, Experienced Storage and Data Management Professional *Software-Defined Cloud Centers* Packt Publishing Ltd Master SDDC Operations with proven best practices About This Book- Understand the drawbacks of the traditional paradigm and management that make operations difficult in SDDC- Master performance and capacity management in Software-Defined Data Center- Operationalize performance and capacity monitoring with proven dashboards Who This Book Is For This book is primarily for any system administrator or cloud infrastructure specialist who is interested in performance management and capacity management using VMware technologies. This book will also help IT professionals whose area of responsibility is not VMware, but who work with the VMware team. You can be Windows, Linux,

Storage, or Network team; or application architects. Note that prior exposure to the VMware platform of data-center and cloud-based solutions is expected. What You Will Learn- Simplify the task of performance and capacity management- Master the counters in vCenter and vRealize Operations and understand their dependency on one another- Educate your peers and management on SDDC Operations- Complete your SDDC monitoring to include non-VMware components- Perform SDDC performance troubleshooting- Explore real-life examples of how super metric and advanced dashboards- Introduce and implement a Performance SLA- Accomplish your Capacity Management by taking into service tiering and performance SLA In Detail Performance management and capacity management are the two top-most issues faced by enterprise IT when doing virtualization. Until the first edition of the book, there was no in-depth coverage on the topic to tackle the issues systematically. The second edition expands the first edition, with added information and reorganizing the book into three logical parts. The first part provides the technical foundation of SDDC Management. It explains the difference between a software-defined data center and a classic physical data center, and how it impacts both architecture and operations. From this strategic view, it zooms into the most common challenges-performance management and capacity management. It introduces a new concept called Performance SLA and also a new way of doing capacity management. The next part provides the actual solution that you can implement in your environment. It puts the theories together and provides real-life examples created together with customers. It provides the reasons behind each dashboard, so that you get the understanding on why it is required and what problem it solves. The last part acts as a reference section. It provides a complete reference to vSphere and vRealize Operations counters,

explaining their dependencies and providing practical guidance on the values you should expect in a healthy environment. Style and approach This book covers the complex topic of managing performance and capacity in an easy-to-follow style. It relates real-world scenarios to topics in order to help you implement the book's teachings on the go.

**The Origins of the Boxer Uprising** Packt Publishing Ltd vSphere High Performance Cookbook is written in a practical, helpful style with numerous recipes focusing on answering and providing solutions to common, and not-so common, performance issues and problems. The book is primarily written for technical professionals with system administration skills and some VMware experience who wish to learn about advanced optimization and the configuration features and functions for vSphere 5.1.

**VMware Cross-Cloud Architecture** Packt Publishing Ltd Giving you the confidence you need to take on Docker in the real world, this guide is the ultimate book for learning Docker, brought to you by Docker Captain and leading educator in the container ecosystem. --

**My Fathers' Daughter** Springer

In twenty years, China's expenditures for research and development will surpass those of the United States, a trend that epitomizes nationalistic ambitions to regain intellectual prestige for a country that had once invented paper and gunpowder. Tens of billions of dollars have been poured into a new technology superstructure as China seeks to transform its economy from a crippling reliance on manufacturing outsourcing. Cloud computing represents a dynamic foundation for the new superstructure that can foster the growth of a socio-capitalistic ecosystem, creating a new class of green exports in the form of highly sophisticated software and services. With Cloud computing, China is seeking to establish a new Silk Road, where its cultural products will once again change the world.