Contents

	Trademarks	
	Preface	
	Now you can become a published author, too!	
	Comments welcome	
	Stay connected to IBM Redbooks	
Part 1. Co	oncepts and architecture	1
	Chapter 1. Introduction to the IBM DS8880	3
	1.1 Introduction to the IBM DS8880	
	1.1.1 At-a-glance features of the DS8880	7
	1.2 DS8880 controller options and frames	
	1.3 DS8880 architecture and functions overview	12
	1.3.1 Overall architecture and components	12
	1.3.2 Storage capacity	
	1.3.3 Supported environments	
	1.3.4 Configuration flexibility	
	1.3.5 Copy Services functions	
	1.3.6 Service and setup	
	1.3.7 IBM Certified Secure Data Overwrite	
	1.4 Performance features	
	1.4.1 16 Gbps host adapters	
	1.4.2 Sophisticated caching algorithms	
	1.4.3 Flash storage	
	1.4.4 Performance for IBM Z systems	
	1.4.5 Fenomance enhancements for Ibivi Fower Systems	23
	Chapter 2. IBM DS8880 hardware components and architecture	
	2.1 Flash drive terminology of the DS8880	
	2.1.1 Storage system	
	2.1.2 Management Console	
	2.1.3 Central processor complex	
	2.2.1 DS8888F Analytic Class all-flash configuration	
	2.2.1 DS0000F Arialytic Glass all-flash configuration	
	2.2.3 DS8884F Business Class all-flash configuration	
	2.2.4 DS8882F Rack Mounted Model all-flash configuration	
	2.2.5 DS8886 Enterprise class hybrid configuration	
	2.2.6 DS8884 Business Class hybrid configuration	
	2.2.7 DS8880 base frames	
	2.2.8 DS8880 expansion frames	
	2.2.9 Scalable upgrades	
	2.2.10 Licensed functions	
	2.3 DS8880 architecture overview	42
	2.3.1 IBM POWER8-based servers	42
	2.2.2. Processor mamory	16