Web Application Architecture and Diagram

Dashboard

Notifications API **Push API**

Services API

Front End **Back End**

User Browser → DNS → Load Balancer → Web Services VM1 / Web Services VM2 → App Server VM1 / App Server VM2 → Database (Cache)

Database
SQL NOSQL

CDN (Cache) → Cloud Storage → Storage → Data Warehousing

Data Analytics   BI Analytics

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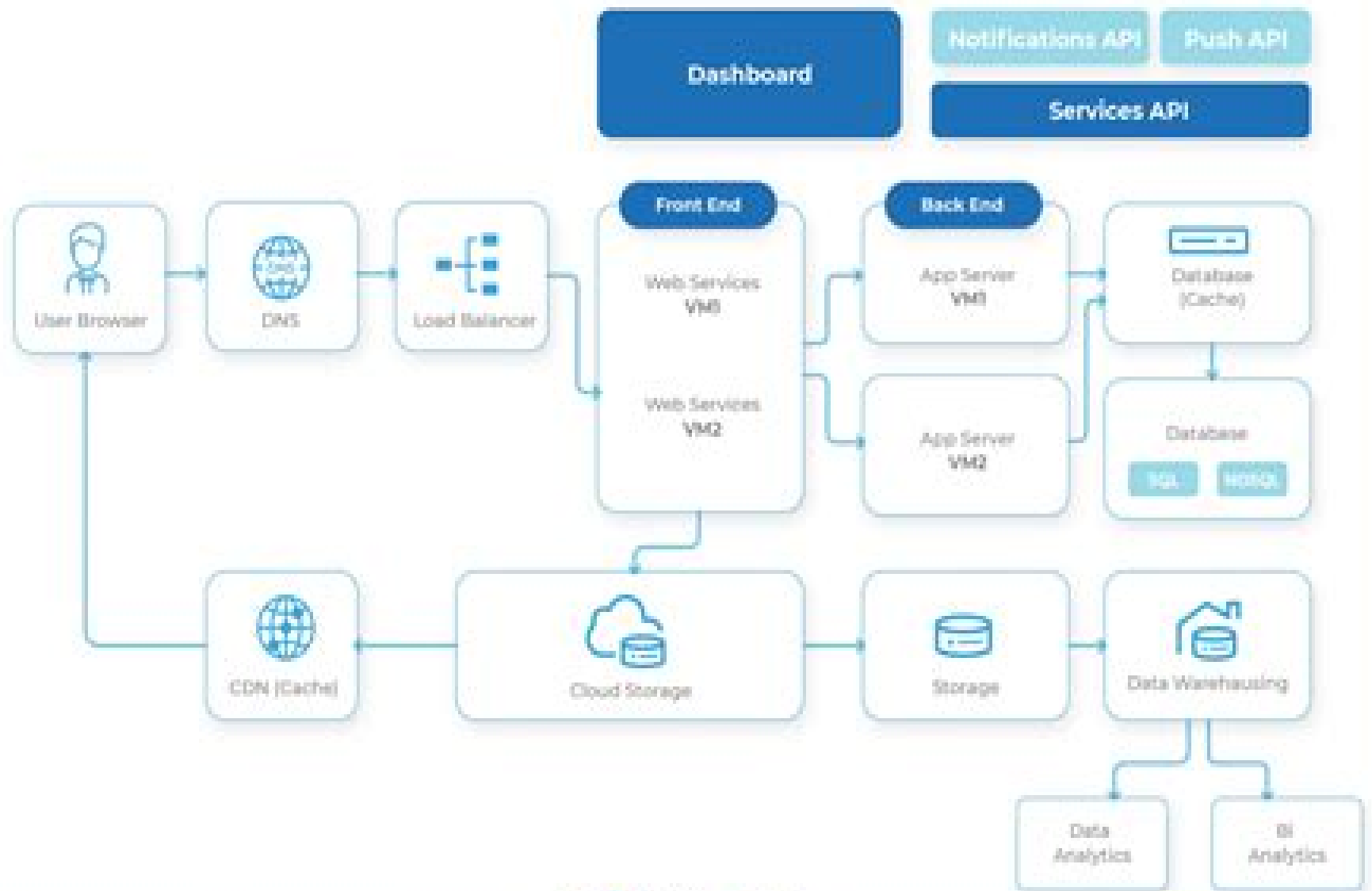
Web Application Architecture Guide

John Ferringer,Sean McDonough

Web Application Architecture Guide:

Guide to Web Application and Platform Architectures Stefan Jablonski,Ilia Petrov,Christian Meiler,Udo Mayer,2004-08-05 New concepts and technologies are being introduced continuously for application development in the World Wide Web Selecting the right implementation strategies and tools when building a Web application has become a tedious task requiring in depth knowledge and significant experience from both software developers and software managers The mission of this book is to guide the reader through the opaque jungle of Web technologies Based on their long industrial and academic experience Stefan Jablonski and his coauthors provide a framework architecture for Web applications which helps choose the best strategy for a given project The authors classify common technologies and standards like NET CORBA J2EE DCOM WSDL and many more with respect to platform architectural layer and application package and guide the reader through a three phase development process consisting of preparation design and technology selection steps The whole approach is exemplified using a real world case the architectural design of an order entry management system Designing Software Architectures Humberto Cervantes,Rick Kazman,2016-04-29 Designing Software Architectures will teach you how to design any software architecture in a systematic predictable repeatable and cost effective way This book introduces a practical methodology for architecture design that any professional software engineer can use provides structured methods supported by reusable chunks of design knowledge and includes rich case studies that demonstrate how to use the methods Using realistic examples you ll master the powerful new version of the proven Attribute Driven Design ADD 3 0 method and will learn how to use it to address key drivers including quality attributes such as modifiability usability and availability along with functional requirements and architectural concerns Drawing on their extensive experience Humberto Cervantes and Rick Kazman guide you through crafting practical designs that support the full software life cycle from requirements to maintenance and evolution You ll learn how to successfully integrate design in your organizational context and how to design systems that will be built with agile methods Comprehensive coverage includes Understanding what architecture design involves and where it fits in the full software development life cycle Mastering core design concepts principles and processes Understanding how to perform the steps of the ADD method Scaling design and analysis up or down including design for pre sale processes or lightweight architecture reviews Recognizing and optimizing critical relationships between analysis and design Utilizing proven reusable design primitives and adapting them to specific problems and contexts Solving design problems in new domains such as cloud mobile or big data *Microsoft Azure For Dummies* Timothy L. Warner,2020-03-24 Your roadmap to Microsoft Azure Azure is Microsoft s flagship cloud computing platform With over 600 services available to over 44 geographic regions it would take a library of books to cover the entire Azure ecosystem Microsoft Azure For Dummies offers a shortcut to getting familiar with Azure s core product offerings used by the majority of its subscribers It s a perfect choice for those looking to gain a quick basic understanding of this ever evolving public cloud platform Written by a

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IIS the built in application server frees you from having to create your own Windows services to perform application hosting Instead you can take advantage of plumbing and infrastructure that Microsoft provides for you freeing you to focus on just your business logic while still being able to deploy n tier solutions on Windows Server In this way Windows Server AppFabric solves the problem of developing deploying and reliably hosting middle tier WCF WF services If you re an experienced developer you ll want to learn about Windows Server AppFabric fast without a lot of reading And that s what this book is all about It cuts to the chase and shows you the simplicity and elegance that combine to form Windows Server AppFabric getting you up to speed fast so that you can take advantage of all the platform has to offer **Developing Enterprise Web Services** Sandeep Chatterjee,James Webber,2004 Includes a detailed case study with complete source code of building Web Services with Java AND Net Covers key emerging standards in transactioning conversations workflow security and authentication mobile and wireless QoS portlets and management Presents best practices based on authors experiences building real world Web Services based applications **Applied Technologies** Miguel Botto-Tobar,Sergio Montes León,Oscar Camacho,Danilo Chávez,Pablo Torres-Carrión,Marcelo Zambrano Vizuete,2021-03-31 This volume constitutes the refereed proceedings of the Second International Conference on Applied Technologies ICAT 2020 held in Quito Ecuador in December 2020 Due to the COVID 19 pandemic the conference was held online The 53 papers were carefully reviewed and selected from 145 submissions The papers are organized according to the following topics communication computing e government and e participation e learning electronics intelligent systems machine vision security technology trends Application Architecture for .NET Microsoft Corporation,2002 Get expert architectural and design level guidance for building distributed solutions with the Microsoft NET Framework learning how to synthesize your knowledge of application development servers and infrastructure and business requirements This guide assumes you are familiar with NET component development and the basic principles of a layered distributed application design It examines architectural issues and solution design for a range of project stakeholders whether you build and design applications and services recommend appropriate technologies and products for applications and services make design decisions to meet functional and nonfunctional requirements or choose appropriate communications mechanisms for applications and services providing straightforward guidance recommendations and best practices gleaned from real world solution development All PATTERNS PRACTICES guides are reviewed and approved by Microsoft engineering teams consultants partners and customers delivering accurate real world information that s been technically validated and tested **MCSD Guide to Microsoft Solution Architectures** Keith Morneau,2000 This text shows the reader how information systems are developed using Microsoft Technologies Learning how to program is no longer sufficient for successful programmers Programmers must now understand hardware and software architectures behind programming This book prepares users for the MCSD certification exam 70 100 Analyzing Requirements and Defining Solutions Architecture It surveys VB VB Script ActiveX and Active Server pages Application

Architecture for WebSphere Joey Bernal,2008-09-15 Architect IBM WebSphere Applications for Maximum Performance Security Flexibility Usability and Value Successful high value WebSphere applications begin with effective architecture Now one of IBM s leading WebSphere and WebSphere Portal architects offers a hands on best practice guide to every facet of defining planning and implementing WebSphere application architectures Joey Bernal shows working architects and teams how to define layered architectural standards that can be used across the entire organization improving application quality without compromising flexibility Bernal begins by illuminating the role of architecture and the responsibilities of the architect in WebSphere applications and SOA environments Next he introduces specific architectural techniques for addressing persistence application performance security functionality user interaction and much more Bernal presents a series of sample architectures drawn from his work with several leading organizations demonstrating how architectures can evolve to support new layers and changing business requirements Throughout his techniques are specific enough to address realistic enterprise challenges while still sufficiently high level to be useful in diverse and heterogeneous environments Coverage includes Choosing persistence frameworks that serve business requirements without excessive complexity Avoiding persistence related problems with performance security or application functionality Designing and deploying effective middle layers and dependent libraries within WebSphere Application Server Using WebSphere mechanisms and architectural techniques to avoid common security attacks such as SQL injection Improving performance with WebSphere Application Server caching including Distributed Maps and Servlet JSP fragment caching Using presentation frameworks to provide fast robust and attractive user interaction Incorporating portals that provide a standardized framework for merging multiple applications Joey Bernal is an Executive IT Specialist with IBM Software Services for Lotus Senior Certified with IBM as an IT Specialist he has an extensive background in designing and developing Web and Portal Applications He often leads IBM teams that have assisted dozens of clients in leveraging WebSphere Portal to address architecture design and implementation challenges A frequent speaker on WebSphere and portal topics Bernal is coauthor of Programming Portlets and hosts the developerWorks blog WebSphere Portal in Action Prior to joining IBM he was Director of IT for an incentive and performance improvement company and served as lead technical advisor and architect for high profile Internet and intranet applications at several Fortune 500 companies You can also visit the author s Web site at www bernal net The IBM Press developerWorks Series is a unique undertaking in which print books and the Web are mutually supportive The publications in this series are complemented by resources on the developerWorks Web site on ibm com Icons throughout the book alert the reader to these valuable resources **Improving Web Application Security** ,2003 Gain a solid foundation for designing building and configuring security enhanced hack resistant Microsoft ASP NET Web applications This expert guide describes a systematic task based approach to security that can be applied to both new and existing applications It addresses security considerations at the network host and application layers for each physical tier Web server remote

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