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Microsoft .NET - Architecting Applications for the ... Architecting Cloud Native .NET Applications for Azure. 11/10/2020; 2 minutes to read ... Refer changelog for the book updates and community contributions. PUBLISHED BY: Microsoft Developer Division, .NET, and Visual Studio product teams. A division of Microsoft Corporation ... This guide begins by defining cloud native and introducing a ...

Architecting Cloud Native .NET Applications for Azure ... Architecting Microsoft Azure Solutions Description - hidden in CSS In this online course, you will learn about architecting solutions on Microsoft Azure that involve the use of virtualization, automation, networking, storage, identity, security, data platform, and application infrastructure.

Architecting Microsoft Azure Solutions Traditional .NET applications can and do support many of these requirements, but ASP.NET Core and .NET 5 have been optimized to offer improved support for the above scenarios. More and more organizations are choosing to host their web applications in the cloud using services like Microsoft Azure.

Architect Modern Web Applications ... - docs.microsoft.com Modernizing existing .NET apps e-book. Learn how to move your existing .NET Framework server applications directly to the cloud by modernizing specific areas, without re-architecting or recoding entire applications. Download PDF: View on the web

.NET & Azure cloud application architecture guidance A successful cloud application will focus on five pillars of software quality: Cost optimization, Operational excellence, Performance efficiency, Reliability, and Security. Leverage the Microsoft Azure Well-Architected Framework to assess your architecture across these five pillars. Next steps

Azure Application Architecture Guide - docs.microsoft.com The eShopOnContainers application is an open-source reference app for .NET Core and microservices that is designed to be deployed using Docker containers. The application consists of multiple subsystems, including several e-store UI front-ends (a Web MVC app, a Web SPA, and a native mobile app).

.NET Microservices. Architecture for Containerized .NET ... Learn how to architect distributed cloud applications with the correct developer mindset using the right technologies and the best cloud patterns. This technology-agnostic course begin by explaining the benefits of distributed cloud applications with an emphasis on maintaining high-availability and scalability in a cost-effective way while also dealing with inevitable hardware and software ...

Architecting Distributed Cloud Applications (free video ... Enterprise applications can be complex and are often composed of multiple services instead of a single service-based application. For those cases, you need to understand additional architectural approaches, such as the microservices and certain Domain-Driven Design (DDD) patterns plus container orchestration concepts.

Architecting container and microservice-based applications ... Build production-ready cloud applications for scalability, security, resiliency, and more using Azure. ASP.NET apps Quickly build, test, and deploy data-driven web applications using the ASP.NET web framework.

.NET Application Architecture Guides - dotnet.microsoft.com Microsoft .NET: Architecting Applications for the Enterprise by Dino Esposito, Andrea Saltarello. really liked it 4.00 · Rating details · 216 ratings · 8 reviews Make the right architectural decisions up frontand improve the quality and reliability of your results. Led by two enterprise programming experts, you'll learn how to apply the ...

Microsoft .NET: Architecting Applications for the ... Are you new to Architecting .NET Applications? Make sure to read this guide. Application Architecture - Getting started. Decoupling application code from UI. Loose coupling is a key property of well-architected applications. When dealing with the user interface, this means that no application code must directly depend on the user interface.

Architecting .NET Desktop and Mobile applications ... Discover the exciting improvements we're bringing to help you architect and deploy an intelligent intranet with SharePoint. From simplifying way-finding for users across all of SharePoint including global navigation, to organizing your intranet with hubs, to unlocking new branding capabilities, and establishing sites with consistent structure and functionality.

Architecting your intelligent intranet with SharePoint ... In this session we will start with a modern app and optimize it for Kubernetes using Azure Kubernetes Service (AKS). In addition to migrating to AKS, we will take advantage of native Azure services like Cosmos DB API for Mongo DB (in the process comparing options like running dockerized Mongo DB or hosted Mongo DB Atlas).

Architecting Cloud-Native Apps with AKS and Cosmos DB Azure BiteSize: Architecting Applications for Azure Stack Building applications for the Intelligent edge on Microsoft Azure Stack. In this session we will cover the Azure Stack hybrid cloud proposition and the approaches for building and deploying applications that move the intelligent cloud closer.

Make the right architectural decisions up front - and improve the quality and reliability of your .NET applications. Led by two enterprise programming experts, you'll learn how to apply the patterns and techniques that help control project complexity - and make systems easier to build, support, and upgrade - right from the start. This Second Edition features new deep dives on domain modeling, Command Query Responsibility Segregation (CQRS), and event sourcing models. Get pragmatic architectural guidance on these topics and more: Building testability, maintainability, and security into your system early in the design Exposing business logic through a service-oriented interface Choosing the best pattern for organizing business logic and behavior Applying patterns to separate the UI and presentation logic Managing impedance mismatch between objects and data How to minimize development effort and avoid over-engineering - to produce more robust results

A software architect's digest of core practices, pragmatically applied Designing effective architecture is your best strategy for managing project complexity—and improving your results. But the principles and practices of software architecting—what the authors call the “science of hard decisions”—have been evolving for cloud, mobile, and other shifts. Now fully revised and updated, this book shares the knowledge and real-world perspectives that enable you to design for success-and deliver more successful solutions. In this fully updated Second Edition, you will: Learn how only a deep understanding of domain can lead to appropriate architecture Examine domain-driven design in both theory and implementation Shift your approach to code first, model later—including multilayer architecture Capture the benefits of prioritizing software maintainability See how readability, testability, and extensibility lead to code quality Take a user experience (UX) first approach, rather than designing for data Review patterns for organizing business logic Use event sourcing and CQRS together to model complex business domains more effectively Delve inside the persistence layer, including patterns and implementation.

In the race to compete in today's fast-moving markets, large enterprises are busy adopting new technologies for creating new products, processes, and business models. But one obstacle on the road to digital transformation is placing too much emphasis on technology, and not enough on the types of processes technology enables. What if different lines of business could build their own services and applications—and decision-making was distributed rather than centralized? This report explores the concept of a digital business platform as a way of empowering individual business sectors to act on data in real time. Much innovation in a digital enterprise will increasingly happen at the edge, whether it involves business users (from marketers to data scientists) or IoT devices. To facilitate the process, your core IT team can provide these sectors with the digital tools they need to innovate quickly. This report explores: Key cultural and organizational changes for developing business capabilities through cross-functional product teams A platform for integrating applications, data sources, business partners, clients, mobile apps, social networks, and IoT devices Creating internal API programs for building innovative edge services in low-code or no-code environments Tools including Integration Platform as a Service, Application Platform as a Service, and Integration Software as a Service The challenge of integrating microservices and serverless architectures Event-driven architectures for processing and reacting to events in real time You'll also learn about a complete pervasive integration solution as a core component of a digital business platform to serve every audience in your organization.

Provides information on planning, designing, and building Web applications with ASP.NET and AJAX.

Provides information on designing and building effective enterprise solutions, covering such topics as UML, the business layer, the service layer, and the data access layer.

Do you need to learn about cloud computing architecture with Microsoft's Azure quickly? Read this book! It gives you just enough info on the big picture and is filled with key terminology so that you can join the discussion on cloud architecture.

An in-depth scenario-driven approach to architecting systems using Microsoft technologies with this book and eBook.

Make the right architectural decisions up front—and improve the quality and reliability of your results. Led by two enterprise programming experts, you'll learn how to apply the patterns and techniques that help control project complexity—and make systems easier to build, support, and upgrade—right from the start. Get pragmatic architectural guidance on how to: Build testability, maintainability, and security into your system early in the design Expose business logic through a service-oriented interface Choose the best pattern for organizing business logic and behavior Review and apply the patterns for separating the UI and presentation logic Delve deep into the patterns and practices for the data access layer Tackle the impedance mismatch between objects and data Minimize development effort and avoid over-engineering—and deliver more robust results Get code samples on the Web.

This study guide includes all the topics that are still relevant from the previous 70-534 exam, updated with the latest features like Artificial Intelligence, IoT, and architecture styles. This guide will help Azure Architects, Developers or anyone interested in designing and implementing effective Cloud architecture strategies.

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