

Access Free  
Microsoft  
Application  
Architecture

# Microsoft Application Architecture e Guide Ebook

Build and design multiple types of applications that are cross-language, platform, and cost-

# Access Free Microsoft

## Application

effective by

## Architecture

Azure principles and  
foundational concepts

Key Features Get

familiar with the

different design

patterns available in

Microsoft Azure

Develop Azure cloud

architecture and a

pipeline management

system Get to know

the security best

# Access Free Microsoft

Application  
Architecture  
Guides Ebook  
practices for your  
Azure deployment  
Book Description

Thanks to its support for high availability, scalability, security, performance, and disaster recovery, Azure has been widely adopted to create and deploy different types of application with ease. Updated for the latest

# Access Free Microsoft

Application  
Architecture  
Guide Ebook

developments, this third edition of Azure for Architects helps you get to grips with the core concepts of designing serverless architecture, including containers, Kubernetes deployments, and big data solutions. You'll learn how to architect solutions such as serverless functions,

# Access Free Microsoft

Application  
Architecture  
Guide eBook

you'll discover deployment patterns for containers and Kubernetes, and you'll explore large-scale big data processing using Spark and Databricks. As you advance, you'll implement DevOps using Azure DevOps, work with intelligent solutions using Azure Cognitive Services,

# Access Free Microsoft

Application  
Architecture  
Guide Ebook

and integrate security, high availability, and scalability into each solution. Finally, you'll delve into Azure security concepts such as OAuth, OpenConnect, and managed identities. By the end of this book, you'll have gained the confidence to design intelligent Azure solutions based

# Access Free Microsoft

Application  
Architecture  
on containers and  
serverless functions.

What you will learn

Understand the  
components of the  
Azure cloud platform

Use cloud design  
patterns Use

enterprise security  
guidelines for your  
Azure deployment

Design and  
implement serverless  
and integration

# Access Free Microsoft

Application  
Architecture  
Guides Ebook

solutions Build  
efficient data solutions  
on Azure Understand  
container services on  
Azure Who this book  
is for If you are a  
cloud architect,  
DevOps engineer, or  
a developer looking to  
learn about the key  
architectural aspects  
of the Azure cloud  
platform, this book is  
for you. A basic



# Access Free Microsoft

Application  
Architecture  
Guide Ebook

understanding of the  
Azure cloud platform  
will help you grasp the  
concepts covered in  
this book more  
effectively.

Get the definitive  
guide on designing  
applications on the  
Microsoft application  
platform â€™straight  
from the Microsoft  
patterns & practices  
team. Learn how to

# Access Free Microsoft

Application  
Architecture  
Guide Ebook

choose the most appropriate architecture and the best implementation technologies that the Microsoft application platform offers applications developers. Get critical design recommendations and guidelines organized by application type

# Access Free Microsoft

Application  
Architecture  
Guide eBook  
mobile, and rich  
Internet applications  
to Office Business  
Applications.

You also get  
links to additional  
technical resources  
that can help with  
your application  
development.

Become a certified  
Azure Architect and  
learn how to design  
effective solutions that

# Access Free Microsoft

Application  
Architecture  
Guide Ebook  
span compute,  
security, networking,  
and development Key

Features: Discover  
how you can design  
and architect powerful  
and cost-effective  
solutions on Microsoft  
Azure Prepare to  
achieve AZ-303  
certification with the  
help of mock tests  
and practice  
questions Enhance

# Access Free Microsoft

## Application

your computing,  
networking, storage,  
and security skills to

design modern cloud-  
based solutions Book

Description: From  
designing solutions on  
Azure to configuring  
and managing virtual  
networks, the AZ-303  
certification validates  
your knowledge and  
skills for all this and  
much more. Whether

# Access Free Microsoft

Application  
Architecture  
Guide Ebook

you want to take the certification exam or gain hands-on experience in administering, developing, and architecting Azure solutions, this study guide will help you get started. Divided into four modules, this book systematically takes you through the wide range of

# Access Free Microsoft

Application  
Architecture  
GuideBook

concepts and features covered in the AZ-303 exam. The first module demonstrates how to implement and monitor infrastructure. You'll develop the skills required to deploy and manage core Azure components such as virtual machines, networking, storage, and Active Directory

# Access Free Microsoft

## Application Architecture Guides Ebook

(AD). As you progress, you'll build on that knowledge and learn how to create resilient and secure applications before moving on to working with web apps, functions, and containers. The final module will get you up to speed with data platforms such as SQL and Cosmos DB,



# Access Free Microsoft

Application  
Architecture  
Guide eBook

including how to  
configure the different  
high availability  
options. Finally, you'll  
solve mock tests and  
assess yourself with  
the answers provided  
to get ready to take  
the exam with  
confidence. By the  
end of this book, you'll  
have learned the  
concepts and  
techniques you need

# Access Free Microsoft

Application  
Architecture  
Guide eBook

to know to prepare for  
the AZ-303 exam and  
design effective  
solutions on Microsoft  
Azure. What You Will  
Learn: Manage Azure  
subscriptions and  
resources Ensure  
governance and  
compliance with  
policies, roles, and  
blueprints Build,  
migrate, and protect  
servers in Azure

# Access Free Microsoft

## Application

Configure, monitor,  
and troubleshoot  
virtual networks

Manage Azure AD  
and implement multi-  
factor authentication  
Configure hybrid  
integration with Azure  
AD Connect Find out  
how you can monitor  
costs, performance,  
and security Develop  
solutions that use  
Cosmos DB and

# Access Free Microsoft

Application  
Architecture  
Azure SQL Database  
Who this book is for:

Guide Ebook  
This book is for  
solution architects  
and experienced  
developers who  
advise stakeholders  
and translate  
business  
requirements into  
secure, scalable, and  
reliable solutions.  
Technical architects  
interested in learning

# Access Free Microsoft

Application  
Architecture  
Guide Ebook

more about designing  
cloud solutions will  
also find this book  
useful. Prior  
experience and  
knowledge of various  
aspects of IT  
operations, including  
networking, security,  
business continuity,  
disaster recovery,  
budgeting, and  
governance, will  
assist with

# Access Free Microsoft

Application  
Architecture  
Guide Ebook  
understanding the  
concepts covered in  
the book.

This book provides practical guidance for adopting a high velocity, continuous delivery process to create reliable, scalable, Software-as-a-Service (SaaS) solutions that are designed and built using a microservice

# Access Free Microsoft

Application  
Architecture  
Guide eBook

architecture, deployed  
to the Azure cloud,  
and managed through  
automation.

Microservices, IoT,  
and Azure offers  
software developers,  
architects, and  
operations engineers'  
step-by-step  
directions for building  
SaaS applications—a  
pplications that are  
available 24x7, work

# Access Free Microsoft

Application  
Architecture  
Guide Ebook

on any device, scale elastically, and are resilient to change--through code, script, exercises, and a working reference implementation. The book provides a working definition of microservices and contrasts this approach with traditional monolithic



# Access Free Microsoft

Application  
Architecture  
Layered Architecture.

A fictitious,  
homebiomedical  
startup is used to  
demonstrate  
microservice  
architecture and  
automation  
capabilities for cross-  
cutting and business  
services as well as  
connected device  
scenarios for Internet  
of Things (IoT).

# Access Free Microsoft

Application  
Architecture  
Guides EBook

Several Azure PaaS services are detailed including Storage, SQL Database, DocumentDb, Redis Cache, Cloud Services, Web API's, API Management, IoT Hub, IoT Suite, Event Hub, and Stream Analytics. Finally the book looks to the future and examines Service Fabric to see

# Access Free Microsoft

Application  
Architecture  
Guide Ebook

how microservices  
are becoming the de  
facto approach to  
building reliable  
software in the cloud.  
In this book, you'll  
learn: What  
microservices are and  
why are they're a  
compelling  
architecture pattern  
for SaaS applications  
How to design,  
develop, and deploy

# Access Free Microsoft

Application  
Architecture  
Guides eBook

microservices using  
Visual Studio,  
PowerShell, and  
Azure Microservice  
patterns for cross-  
cutting concerns and  
business capabilities  
Microservice patterns  
for Internet of Things  
and big data analytics  
solutions using IoT  
Hub, Event Hub, and  
Stream Analytics  
Techniques for

Access Free  
Microsoft  
Application  
automating  
Architecture  
microservice  
provisioning, building,  
and deployment What  
Service Fabric is and  
how it's the future  
direction for  
microservices on  
Microsoft Azure  
Pattern Enterpr  
Applica Arch  
Microsoft Power  
Platform Enterprise  
Architecture

Access Free  
Microsoft  
Application  
Architecture  
Implementing  
Microsoft Azure  
Architect  
Technologies AZ-303  
Exam Prep and  
Beyond - Second  
Edition  
Designing,  
Developing,  
Deploying, and  
Monitoring  
Microsoft Application  
Virtualization  
Advanced Guide

Access Free  
Microsoft

Application  
Architecture  
A Craftsman's Guide  
to Software Structure  
and Design

Designing Distributed  
Systems

***Become a  
proficient  
Microsoft Azure  
solutions  
architect Azure  
certifications  
are critical to  
the millions of***

Access Free  
Microsoft

*Application  
Architecture  
Guide Ebook*

***IT professionals  
Microsoft has  
certified as  
MCSE and MCSA  
in Windows  
Server in the  
last 20 years.  
All of these  
professionals  
need to certify  
in key Azure  
exams to stay  
current and***



Access Free  
Microsoft

*Application  
Architecture  
Guide Ebook*  
**advance in their  
careers. Exams  
AZ-303 and  
AZ-304 are the  
key solutions  
architect exams  
that  
experienced  
Windows  
professionals  
will find most  
useful at the  
intermediate**

Access Free  
Microsoft

Application  
Architecture  
Guide Ebook  
**and advanced  
points of their  
careers.**

**Microsoft Azure  
Architect  
Technologies  
and Design  
Complete Study  
Guide Exams  
AZ-303 and  
AZ-304 covers  
the two critical  
Microsoft Azure**

Access Free  
Microsoft  
Application  
Architecture  
Guide Ebook

**exams that  
intermediate  
and advanced  
Microsoft IT  
professionals  
will need to  
show  
proficiency as  
their  
organizations  
move to the  
Azure cloud. •  
Understand**

Access Free  
Microsoft

**Azure • Set up  
your Microsoft  
Cloud network  
• Solve real-  
world problems  
• Get the  
confidence to  
pass the exam  
By learning all  
of these things  
plus using the  
Study Guide  
review**

Access Free  
Microsoft

*Application  
Architecture  
Guide Ebook*  
**questions and  
practice exams,  
the reader will  
be ready to  
take the exam  
and perform  
the job with  
confidence.  
Your one stop  
guide to  
making the  
most out of  
Azure Cloud**

Access Free  
Microsoft

***About This  
Book Get  
familiar with  
the different  
design patterns  
available in  
Microsoft Azure  
Develop Azure  
cloud  
architecture  
and a pipeline  
management  
system Get to***

Access Free  
Microsoft

Application

**know the  
security best  
practices for  
your Azure  
deployment**

**Who This Book  
Is For If you are  
Cloud**

**Architects,  
DevOps  
Engineers, or  
developers who  
want to learn**

Access Free  
Microsoft  
Application

**key**

**architectural  
aspects of the  
Azure Cloud  
platform, then  
this book is for  
you. Prior basic  
knowledge of  
the Azure Cloud  
platform is  
good to have.  
What You Will  
Learn**



Access Free  
Microsoft

*Familiarize  
yourself with  
the components  
of the Azure  
Cloud platform  
Understand the  
cloud design  
patterns Use  
enterprise  
security  
guidelines for  
your Azure  
deployment*

Access Free  
Microsoft  
Application  
Architecture  
Guide Ebook

***Design and  
implement  
Serverless  
solutions See  
Cloud  
architecture  
and the  
deployment  
pipeline  
Understand  
cost  
management  
for Azure***

Access Free  
Microsoft

*solutions In  
Detail Over the  
years, Azure  
cloud services  
has grown  
quickly, and the  
number of  
organizations  
adopting Azure  
for their cloud  
services is also  
gradually  
increasing.*

Access Free  
Microsoft

Application

**Leading  
industry giants  
are finding that  
Azure fulfills  
their extensive  
cloud  
requirements.**

**This book will  
guide you  
through all the  
important and  
tough decision-  
making aspects**

Access Free  
Microsoft

*Application  
Architecture  
Guide Ebook*  
**involved in  
architecting a  
Azure public  
cloud for your  
organization.  
The book starts  
with an  
extensive  
introduction to  
all the  
categories of  
designs  
available with**

Access Free  
Microsoft

***Application  
Architecture  
Guide Ebook***  
**Azure. These design patterns focus on different aspects of cloud such as high availability, data management, and so on. Gradually, we move on to**

Access Free  
Microsoft

*Application  
Architecture  
Guide Ebook*  
**various aspects  
such as  
building your  
cloud structure  
and  
architecture. It  
will also include  
a brief  
description  
about different  
types of  
services  
provided by**

Access Free  
Microsoft

Application  
Architecture  
Guide Ebook

**Azure, such as  
Azure functions  
and Azure  
Analytics,  
which can  
prove beneficial  
for an  
organization.  
This book will  
cover each and  
every aspect  
and function  
required to**



Access Free  
Microsoft  
Application  
Architecture  
Guide Ebook

***develop a Azure  
cloud based on  
your  
organizational  
requirements.  
By the end of  
this book, you  
will be in a  
position to  
develop a full-  
fledged Azure  
cloud. Style and  
approach This***

Access Free  
Microsoft

*Application  
Architecture  
Guide Ebook*  
**hands-on guide  
to the Azure  
Cloud platform  
covers different  
architectural  
concepts and i  
mplementations  
necessary for  
any enterprise  
scale  
deployment.  
Cloud  
applications**

Access Free  
Microsoft

*Application  
Architecture  
Guide Ebook*

***have a unique  
set of  
characteristics.  
They run on  
commodity  
hardware,  
provide  
services to  
untrusted  
users, and deal  
with  
unpredictable  
workloads.***

***These factors impose a range of problems that you, as a designer or developer, need to resolve. Your applications must be resilient so that they can recover from failures, secure***

Access Free  
Microsoft

*Application  
Architecture  
Guide Ebook*

***to protect  
services from  
malicious  
attacks, and  
elastic in order  
to respond to  
an ever  
changing  
workload. This  
guide  
demonstrates  
design patterns  
that can help***

Access Free  
Microsoft

*Application  
Architecture  
Guide Ebook*  
**you to solve the  
problems you  
might  
encounter in  
many different  
areas of cloud  
application  
development.  
Each pattern  
discusses  
design  
considerations,  
and explains**

Access Free  
Microsoft

Application  
Architecture  
Guide Ebook

***how you can  
implement it  
using the  
features of  
Windows Azure.  
The patterns  
are grouped  
into categories:  
availability,  
data  
management,  
design and  
implementation***

Access Free  
Microsoft

*Application  
Architecture  
Guide Ebook*  
**, messaging,  
performance  
and scalability,  
resilience,  
management  
and monitoring,  
and security.  
You will also  
see more  
general  
guidance  
related to these  
areas of**



Access Free  
Microsoft

Application  
Architecture  
Guide Ebook

**concern. It explains key concepts such as data consistency and asynchronous messaging. In addition, there is useful guidance and explanation of the key considerations**

Access Free  
Microsoft

Application  
Architecture  
Guide Ebook  
**for designing  
features such  
as data**

**partitioning,  
telemetry, and  
hosting in  
multiple  
datacenters.**

**These patterns  
and guidance  
can help you to  
improve the  
quality of**

Access Free  
Microsoft

*Application  
Architecture  
Guide Ebook*

**applications  
and services  
you create, and  
make the  
development  
process more  
efficient. Enjoy!  
How can you  
create an  
application that  
has truly global  
reach, and can  
scale rapidly to**

Access Free  
Microsoft

Application  
Architecture  
Guide Ebook  
**meet sudden  
massive spikes  
in demand?**

**Historically,  
companies had  
to invest in an  
infrastructure  
capable of  
supporting such  
an application  
themselves,  
and plan for  
peak demand-**

Access Free  
Microsoft

Application  
Architecture  
Guide Ebook

***which often means that much of the capacity sits idle for much of the time.***

***Typically, only large companies would have the available resources to risk such an***

Access Free  
Microsoft

*Application  
Architecture  
Guide Ebook*

**enterprise. The  
cloud has  
changed the  
rules of the  
game. By  
making  
infrastructure  
available on a  
"pay as you go"  
basis, creating  
a massively  
scalable, global  
application is**

Access Free  
Microsoft

*Application  
Architecture  
Guide Ebook*

***within the reach of both large and small companies. Yes, by moving applications to the cloud you're giving up some control and autonomy, but you're also going to benefit from reduced***

Access Free  
Microsoft  
Application  
**costs,**  
Architecture  
**increased**  
Guide Ebook  
**flexibility, and**  
**scalable**  
**computation**  
**and storage.**  
**This guide is**  
**the third**  
**release of the**  
**second volume**  
**in a series**  
**about Windows**  
**Azure. It**



Access Free  
Microsoft

*demonstrates  
how you can  
create from  
scratch a multi-  
tenant,  
Software as a  
Service (SaaS)  
application to  
run in the cloud  
by using the  
Windows Azure  
tools and the  
increasing*

Access Free  
Microsoft

Application

***range of  
capabilities of  
Windows Azure.***

***The guide  
focuses on both  
good practice  
design and the  
practicalities of  
implementation  
for multi-tenant  
applications,  
but also  
contains a***

Access Free  
Microsoft

Application  
**wealth of  
information on  
factors such as**

**security,  
scalability,  
availability, and  
elasticity that  
are relevant to  
all types of  
cloud hosted  
applications.  
The guide is  
intended for**

Access Free  
Microsoft

*any architect,  
developer, or  
information  
technology (IT)  
professional  
who designs,  
builds, or  
operates  
applications  
and services  
that run on or  
interact with  
the cloud.*

Access Free  
Microsoft

Application

***Although applications do not need to be based on the Windows operating system to work in Windows Azure, or be written using a .NET language, this guide is written for***

Access Free  
Microsoft

Application  
Architecture  
Guide Ebook

**people who  
work with  
Windows based  
systems. You  
should be  
familiar with  
the .NET  
Framework,  
Visual Studio,  
ASP.NET MVC,  
and Visual C#.  
Azure for  
Architects**

Access Free  
Microsoft

Application  
**Windows**  
Architecture  
**Internals, Part**  
**1**  
Guide Ebook

***Building an  
application in  
four sprints***

***Aligning  
Principles,  
Practices, and  
Culture***

***Introducing  
Microsoft  
Power BI***

Page 71/314

Access Free  
Microsoft

Application  
Architecture  
Guide Ebook

***Dive into the  
Future of  
Infrastructure  
.NET DevOps  
for Azure***

***Legend has it that  
Google deploys  
over two billion  
application  
containers a week.  
How's that  
possible? Google  
revealed the secret***



Access Free  
Microsoft

*Application  
Architecture  
Guide Ebook*  
**through a project  
called Kubernetes,  
an open source  
cluster  
orchestrator  
(based on its  
internal Borg  
system) that  
radically simplifies  
the task of  
building,  
deploying, and  
maintaining**

Access Free  
Microsoft

Application

Architecture

Guide Ebook

***scalable  
distributed  
systems in the  
cloud. This  
practical guide  
shows you how  
Kubernetes and  
container  
technology can  
help you achieve  
new levels of  
velocity, agility,  
reliability, and***

Access Free  
Microsoft

*Application  
Architecture  
Guide EBook*

**efficiency. Authors  
Kelsey Hightower,  
Brendan Burns,  
and Joe  
Beda—who've  
worked on  
Kubernetes at  
Google and other  
organizatons—expl  
ain how this  
system fits into the  
lifecycle of a  
distributed**

Access Free  
Microsoft

*Application  
Architecture  
Guide Ebook*  
**application. You  
will learn how to  
use tools and APIs  
to automate  
scalable  
distributed  
systems, whether  
it is for online  
services, machine-  
learning  
applications, or a  
cluster of  
Raspberry Pi**

Access Free  
Microsoft

Application

**computers.**

Architecture

**Explore the**

Guide Ebook

**distributed system**

**challenges that**

**Kubernetes**

**addresses Dive**

**into containerized**

**application**

**development,**

**using containers**

**such as Docker**

**Create and run**

**containers on**

Access Free  
Microsoft

Application  
Architecture  
Guide Ebook  
***Kubernetes, using  
the docker image  
format and***

***container runtime***

***Explore***

***specialized objects***

***essential for***

***running***

***applications in***

***production***

***Reliably roll out***

***new software***

***versions without***

Access Free  
Microsoft

*downtime or errors*  
Get examples of  
how to develop  
and deploy real-  
world applications  
in Kubernetes  
Microsoft Azure  
Essentials from  
Microsoft Press is  
a series of free  
ebooks designed  
to help you  
advance your

Access Free  
Microsoft

*Application  
Architecture  
Guide Ebook*

***technical skills  
with Microsoft  
Azure. The first  
ebook in the  
series, Microsoft  
Azure Essentials:  
Fundamentals of  
Azure, introduces  
developers and IT  
professionals to  
the wide range of  
capabilities in  
Azure. The authors***



Access Free  
Microsoft

*Application  
Architecture  
Guide Ebook*

**- both Microsoft  
MVPs in Azure -  
present both  
conceptual and  
how-to content for  
key areas,  
including: Azure  
Websites and  
Azure Cloud  
Services Azure  
Virtual Machines  
Azure Storage  
Azure Virtual**

Access Free  
Microsoft

Application  
**Networks**

**Databases Azure**

**Guide Ebook**

**Management tools**

**Business**

**scenarios Watch**

**Microsoft Press's**

**blog and Twitter**

**(@MicrosoftPress)**

**to learn about**

**other free ebooks**

**in the "Microsoft**

**Azure Essentials"**

Access Free  
Microsoft  
Application  
**series.**

***This is the eBook  
of the printed book  
and may not  
include any media,  
website access  
codes, or print  
supplements that  
may come  
packaged with the  
bound book.  
Through four  
complete sprints,***

Access Free  
Microsoft

*Application  
Architecture  
Guide Ebook*  
**this book takes  
you through every  
step needed to  
build brand new  
cross-platform  
web apps with  
ASP.NET Core,  
and make them  
available on the  
Internet. You won't  
just master  
Microsoft's  
revolutionary open**

Access Free  
Microsoft

Application  
Architecture  
Guide Ebook

**source ASP.NET  
Core technology:  
you'll learn how to  
integrate the  
immense power of  
MVC, Docker,  
Azure Web Apps,  
Visual Studio and  
Visual Studio  
Code, C#,  
JavaScript,  
TypeScript, and  
Entity Framework.**

Access Free  
Microsoft

Application

Architecture

Guide Ebook

***Working through  
the authors'  
carefully designed  
sprints, you'll start  
with a blank  
canvas, move  
through software  
architecture and  
design, adjusting  
to user feedback,  
recovering from  
mistakes, builds,  
testing,***

Access Free  
Microsoft

Application  
Architecture  
Guide Ebook  
**deployment,  
maintenance,  
refactoring, and**

**more. Along the  
way, you'll learn  
techniques for  
delivering state-of-  
the-art software to  
users more rapidly  
and repeatably  
than ever before.**

**Implement  
microservices**

Access Free  
Microsoft

*Application  
Architecture  
Guide Ebook*

***starting with their  
architecture and  
moving on to their  
deployment,  
manageability,  
security, and  
monitoring. This  
book focuses on  
the key scenarios  
where  
microservices  
architecture is  
preferred over a***



Access Free  
Microsoft  
Application  
*monolithic  
architecture.*  
Building  
Ebook

*Microservices  
Applications on  
Microsoft Azure  
begins with a  
survey of  
microservices  
architecture  
compared to  
monolithic  
architecture and*

Access Free  
Microsoft  
Application

***covers***

***microservices***

***implementation in***

***detail. You'll see***

***the key scenarios***

***where***

***microservices***

***architecture is***

***preferred over a***

***monolithic***

***approach. From***

***there, you will***

***explore the critical***

Access Free  
Microsoft

*Application  
Architecture  
Guide Ebook*

***components and  
various  
deployment  
options of  
microservices on  
platforms such as  
Microsoft Azure  
(public cloud) and  
Azure Stack  
(hybrid cloud).  
This includes in-  
depth coverage of  
developing,***

Access Free  
Microsoft

*Application  
Architecture  
Guide Ebook*  
**deploying, and  
monitoring  
microservices on  
containers and  
orchestrating with  
Azure Service  
Fabric and Azure  
Kubernetes  
Cluster (AKS). This  
book includes  
practical  
experience from  
large-scale**

Access Free  
Microsoft

Application

**enterprise**

Architecture

**deployments,**

Guide Ebook

**therefore it can be**

**a quick reference**

**for solution**

**architects and**

**developers to**

**understand the**

**critical factors**

**while designing a**

**microservices**

**application. What**

**You Will**

Access Free  
Microsoft

*Application  
Architecture  
Guide Ebook*  
**LearnExplore the  
use cases of  
microservices and  
monolithic  
architecture**

**Discover the  
architecture  
patterns to build  
scalable, agile, and  
secure  
microservices appl  
icationsDevelop  
and deploy**

Access Free  
Microsoft

Application  
Architecture  
Guide Ebook  
**microservices  
using Azure  
Service Fabric and  
Azure Kubernetes  
Service Secure  
microservices  
using the gateway  
pattern**See the  
**deployment  
options for  
Microservices on  
Azure  
StackImplement**

Access Free  
Microsoft

*Application  
Architecture  
Guide Ebook*  
**database patterns  
to handle the  
complexities  
introduced by  
microservices**

**Who This Book Is  
For Architects and  
consultants who  
work on Microsoft  
Azure and manage  
large-scale  
deployments.**

**Exams AZ-303 and**

Page 96/314



Access Free  
Microsoft

Application

**AZ-304**

**Clean Architecture**

**Microsoft**

**Application**

**Architecture Guide**

**A Practitioner's**

**Guide to Design,**

**Develop and**

**Deploy Apps**

**Microsoft .NET -**

**Architecting**

**Applications for**

**the Enterprise**

Page 97/314

Access Free  
Microsoft

Application  
Architecture  
Guide Ebook  
**Creating Mobile  
Apps with  
Xamarin.Forms**

**Preview Edition 2  
ASP.NET Core  
Application  
Development**

*An in-depth scenario-  
driven approach to  
architecting systems  
using Microsoft  
technologies with this*

Access Free  
Microsoft

Application  
book and eBook.

Architecture  
Guide Ebook  
*The practice of enterprise application development has benefited from the emergence of many new enabling technologies. Multi-tiered object-oriented platforms, such as Java and .NET, have become*

# Access Free Microsoft

*Application Architecture Guide Ebook*  
*commonplace. These new tools and technologies are capable of building powerful applications, but they are not easily implemented.*

*Common failures in enterprise applications often occur because their*

Access Free  
Microsoft

Application  
Architecture  
Guide Ebook

*developers do not  
understand the  
architectural lessons  
that experienced  
object developers  
have learned.*

*Patterns of Enterprise  
Application*

*Architecture is written  
in direct response to  
the stiff challenges  
that face enterprise*

Access Free  
Microsoft

Application

*application*

Architecture

*developers. The*

Guide Ebook

*author, noted object-*

*oriented designer*

*Martin Fowler,*

*noticed that despite*

*changes in*

*technology--from*

*Smalltalk to CORBA*

*to Java to .NET--the*

*same basic design*

*ideas can be adapted*

# Access Free Microsoft

*Application  
Architecture  
Guide Ebook*  
*and applied to solve  
common problems.*

*With the help of an  
expert group of  
contributors, Martin  
distills over forty  
recurring solutions  
into patterns. The  
result is an  
indispensable  
handbook of  
solutions that are*

# Access Free Microsoft

*Application  
Architecture  
Guide Ebook*

*applicable to any  
enterprise application  
platform. This book  
is actually two books  
in one. The first  
section is a short  
tutorial on developing  
enterprise  
applications, which  
you can read from  
start to finish to  
understand the scope*



# Access Free Microsoft

*Application  
Architecture  
Guide Ebook*

*of the book's lessons.  
The next section, the  
bulk of the book, is a  
detailed reference to  
the patterns  
themselves. Each  
pattern provides  
usage and  
implementation  
information, as well  
as detailed code  
examples in Java or*

Access Free  
Microsoft

Application

*C#. The entire book is  
also richly illustrated  
with UML diagrams*

*to further explain the  
concepts. Armed with*

*this book, you will  
have the knowledge*

*necessary to make  
important*

*architectural*

*decisions about*

*building an enterprise*

Access Free  
Microsoft

Application  
Architecture  
Guide Ebook  
*application and the  
proven patterns for  
use when building*

*them. The topics  
covered include ·*

*Dividing an  
enterprise application  
into layers · The  
major approaches to  
organizing business  
logic · An in-depth  
treatment of mapping*

Access Free  
Microsoft

Application  
Architecture  
Guide Ebook  
*between objects and  
relational databases ·*

*Using Model-View-  
Controller to organize  
a Web presentation ·*

*Handling  
concurrency for data  
that spans multiple  
transactions ·*

*Designing distributed  
object interfaces*

*The “Microsoft Azure*

Access Free  
Microsoft

Application

*Essentials” series*

Architecture

*helps you advance*

Guide Ebook

*your technical skills*

*with Microsoft Azure.*

*“Microsoft Azure*

*Essentials: Azure*

*Web Apps for*

*Developers” focuses*

*on providing essential*

*information about*

*developing web*

*applications hosted*

# Access Free Microsoft

*Application  
Architecture  
Guide Ebook*  
*on Azure Web Apps.*

*It is written with the  
developer who has  
experience using  
Visual Studio and the  
.NET Framework in  
mind. If Azure Web  
Apps is new to you,  
this book is for you.*

*If you have  
experience developing  
for Azure Web Apps,*

# Access Free Microsoft

*this book is for you,  
too, because there are  
features and tools  
discussed in this text  
that are new to the  
platform.*

*Design scalable and  
high-performance  
enterprise  
applications using the  
latest features of C#  
9 and .NET 5 Key*

Access Free  
Microsoft

Application  
*Features Gain*  
Architecture  
*fundamental and*  
Guide Ebook  
*comprehensive*

*software architecture  
knowledge and the  
skillset to create fully  
modular apps Design  
high-performance  
software systems  
using the latest  
features of .NET 5  
and C# 9 Solve*



Access Free  
Microsoft

Application  
*scalability problems*  
Architecture  
*in web apps using*  
Guide Ebook  
*enterprise*

*architecture*

*patterns*Book

*Description* Software

*architecture is the*

*practice of*

*implementing*

*structures and*

*systems that*

*streamline the*

Access Free  
Microsoft  
Application  
software  
Architecture  
development process  
Guide Ebook  
and improve the  
quality of an app.  
This fully revised  
and expanded second  
edition, featuring the  
latest features of  
.NET 5 and C# 9,  
enables you to  
acquire the key skills,  
knowledge, and best

Access Free  
Microsoft

Application  
Architecture  
Guide Ebook  
*practices required to  
become an effective  
software architect.*

*This second edition  
features additional  
explanation of the  
principles of  
Software  
architecture,  
including new  
chapters on Azure  
Service Fabric,*

# Access Free Microsoft

*Kubernetes, and  
Blazor. It also  
includes more*

*discussion on  
security,*

*microservices, and  
DevOps, including*

*GitHub deployments  
for the software  
development cycle.*

*You will begin by  
understanding how to*

# Access Free Microsoft

*Application  
transform user  
Architecture  
requirements into  
Guide Ebook  
architectural needs*

*and exploring the  
differences between  
functional and non-  
functional  
requirements. Next,  
you will explore how  
to carefully choose a  
cloud solution for  
your infrastructure,*

# Access Free Microsoft

*Application  
Architecture  
Guide Ebook*

*along with the factors  
that will help you  
manage your app in  
a cloud-based  
environment. Finally,  
you will discover  
software design  
patterns and various  
software approaches  
that will allow you to  
solve common  
problems faced*

# Access Free Microsoft

## Application

*during development.*

## Architecture

*By the end of this*

## Guide Ebook

*book, you will be able*

*to build and deliver*

*highly scalable*

*enterprise-ready apps*

*that meet your*

*organization's*

*business*

*requirements. What*

*you will learn*

*Use  
different techniques*

# Access Free Microsoft

## Application

*to overcome real-world architectural challenges and solve design consideration issues*

*Apply architectural approaches such as layered architecture, service-oriented architecture (SOA), and microservices*

*Leverage tools such as*



Access Free  
Microsoft

Application  
Architecture  
Guide Ebook  
*containers, Docker,  
Kubernetes, and  
Blazor to manage  
microservices*

*effectively* Get up to  
*speed with Azure  
tools and features for  
delivering global  
solutions* Program  
*and maintain Azure  
Functions using C# 9  
and its latest*

Access Free  
Microsoft

Application  
features Understand  
Architecture  
when it is best to use  
Guide Ebook  
test-driven

development (TDD)  
as an approach for  
software

development Write  
automated functional  
test cases Get the best  
of DevOps principles  
to enable CI/CD  
environments Who

Access Free  
Microsoft

Application

*this book is for This  
book is for engineers  
and senior software  
developers aspiring to  
become architects or  
looking to build  
enterprise*

*applications with the  
.NET Stack. Basic  
familiarity with C#  
and .NET is required  
to get the most out of*

Access Free  
Microsoft

Application

*this book.*

Architecture

*Cloud Native Patterns*

Guide Ebook

*The essential*

*handbook to cloud*

*transformation with*

*Azure, 4th Edition*

*Developing Multi-*

*Tenant Applications*

*for the Cloud on*

*Windows Azure*

*Enterprise Cloud*

*epUB \_1*

Access Free  
Microsoft

Application  
Architecture  
with C# 9 and .NET  
Guide Ebook  
5

*Architecting software  
solutions using  
microservices,  
DevOps, and design  
patterns for Azure,  
2nd Edition*

*Microsoft Azure  
Essentials Azure*

*Machine Learning*

Page 125/314

# Access Free Microsoft

## Application

If you're involved in  
planning IT

infrastructure as a  
network or system  
architect, system  
administrator, or  
developer, this book  
will help you adapt  
your skills to work  
with these highly  
scalable, highly  
redundant

# Access Free Microsoft

Application  
Architecture  
Guide Ebook

infrastructure services. While analysts hotly debate the advantages and risks of cloud computing, IT staff and programmers are left to determine whether and how to put their applications into these virtualized services. Cloud

Access Free  
Microsoft

Application  
Architecture  
Architectures  
Guide Ebook

provides answers --  
and critical guidance  
-- on issues of cost,  
availability,  
performance,  
scaling, privacy, and  
security. With Cloud  
Application  
Architectures, you  
will: Understand the



# Access Free Microsoft

Application  
Architecture  
Guide Ebook

differences between  
traditional  
deployment and  
cloud computing

Determine whether  
moving existing  
applications to the  
cloud makes  
technical and  
business sense

Analyze and  
compare the long-

# Access Free Microsoft

Application  
Architecture  
Guide Ebook

term costs of cloud services, traditional hosting, and owning dedicated servers

Learn how to build a transactional web application for the cloud or migrate one to it Understand how the cloud helps you better prepare for disaster recovery

Access Free  
Microsoft

Application  
Architecture  
Guide Ebook

Change your  
perspective on  
application scaling

To provide realistic  
examples of the  
book's principles in  
action, the author  
delves into some of  
the choices and  
operations available  
on Amazon Web  
Services, and

# Access Free Microsoft

Application  
Architecture  
Guide Ebook

includes high-level summaries of several of the other services available on the market today. Cloud Application Architectures provides best practices that apply to every available cloud service. Learn how to make the

Access Free  
Microsoft  
Application  
Architecture  
Guide Ebook

transition to the  
cloud and prepare  
your web  
applications to  
succeed.

Do you need to learn  
about cloud  
computing  
architecture with  
Microsoft's Azure  
quickly? Read this  
book! It gives you

# Access Free Microsoft

Application  
Architecture  
Guide Ebook

just enough info on  
the big picture and is  
filled with key  
terminology so that  
you can join the  
discussion on cloud  
architecture.

One of the biggest  
challenges for  
organizations that  
have adopted  
microservice

# Access Free Microsoft

Application  
Architecture  
Guide Ebook

architecture is the  
lack of architectural,  
operational, and  
organizational  
standardization.

After splitting a  
monolithic  
application or  
building a  
microservice  
ecosystem from  
scratch, many

# Access Free Microsoft

Application  
Architecture  
Guide Ebook

engineers are left wondering what's next. In this practical book, author Susan Fowler presents a set of microservice standards in depth, drawing from her experience standardizing over a thousand microservices at



# Access Free Microsoft

Application

Uber. You'll learn how to design microservices that are stable, reliable, scalable, fault tolerant, performant, monitored, documented, and prepared for any catastrophe. Explore production-readiness standards, including:

Access Free  
Microsoft

Application  
Architecture  
Guide Ebook

Stability and  
Reliability: develop,  
deploy, introduce,  
and deprecate  
microservices;  
protect against  
dependency failures  
Scalability and  
Performance: learn  
essential  
components for  
achieving greater

Access Free  
Microsoft  
Application  
microservice  
Architecture  
efficiency Fault  
Guide Ebook  
Tolerance and

## Catastrophe

Preparedness: ensure availability by actively pushing microservices to fail in real time

Monitoring: learn how to monitor, log, and display key

# Access Free Microsoft

Application  
Architecture  
Guide Ebook

metrics; establish  
alerting and on-call  
procedures

Documentation and  
Understanding:  
mitigate tradeoffs  
that come with  
microservice  
adoption, including  
organizational  
sprawl and technical  
debt

Access Free  
Microsoft

Application  
Architecture  
Summary Cloud  
Native Patterns  
Guide Ebook  
your guide to

developing strong  
applications that  
thrive in the  
dynamic, distributed,  
virtual world of the  
cloud. This book  
presents a mental  
model for cloud-  
native applications,

Access Free  
Microsoft

Application  
Architecture  
Guide Ebook  
along with the  
patterns, practices,  
and tooling that set  
them apart. Purchase  
of the print book  
includes a free  
eBook in PDF,  
Kindle, and ePub  
formats from  
Manning  
Publications. About  
the Technology

# Access Free Microsoft

## Application Architecture Guide Ebook

Cloud platforms promise the holy grail: near-zero downtime, infinite scalability, short feedback cycles, fault-tolerance, and cost control. But how do you get there? By applying cloudnative designs, developers can build

# Access Free Microsoft

Application  
Architecture  
Guide Ebook  
resilient, easily  
adaptable, web-scale  
distributed

applications that  
handle massive user  
traffic and data  
loads. Learn these  
fundamental patterns  
and practices, and  
you'll be ready to  
thrive in the  
dynamic, distributed,



Access Free  
Microsoft

Application  
Architecture  
Guide Ebook

virtual world of the  
cloud. About the  
Book With 25 years  
of experience under  
her belt, Cornelia  
Davis teaches you  
the practices and  
patterns that set  
cloud-native  
applications apart.  
With realistic  
examples and expert

# Access Free Microsoft

Application  
Architecture  
Guide Ebook

advice for working  
with apps, data,  
services, routing,  
and more, she shows  
you how to design  
and build software  
that functions  
beautifully on  
modern cloud  
platforms. As you  
read, you will start  
to appreciate that

Access Free  
Microsoft

Application

cloud-native

Architecture

computing is more

Guide Ebook

about the how and

why rather than the

where. What's inside

The lifecycle of

cloud-native apps

Cloud-scale

configuration

management Zero

downtime upgrades,

versioned services,

Access Free  
Microsoft

Application  
Architecture  
Guide Ebook  
and parallel deploys  
Service discovery  
and dynamic routing

Managing  
interactions between  
services, including  
retries and circuit  
breakers About the  
Reader Requires  
basic software  
design skills and an  
ability to read Java

Access Free  
Microsoft  
Application  
or a similar  
Architecture  
language. About the  
Guide Ebook  
Author Cornelia  
Davis is Vice  
President of  
Technology at  
Pivotal Software. A  
teacher at heart,  
she's spent the last  
25 years making  
good software and  
great software

Access Free  
Microsoft

Application  
Architecture  
Guide Ebook  
developers. Table of  
Contents PART 1 -  
THE CLOUD-  
NATIVE

CONTEXT You

keep using that

word: Defining

"cloud-native"

Running cloud-

native applications

in production The

platform for cloud-

Access Free  
Microsoft

Application  
native software

Architecture  
PART 2 - CLOUD-  
Guide Ebook  
NATIVE

PATTERNS Event-  
driven

microservices: It's  
not just

request/response

App redundancy:

Scale-out and  
statelessness

Application

# Access Free Microsoft

Application  
Architecture  
Guide Ebook  
configuration: Not  
just environment  
variables The

application lifecycle:

Accounting for  
constant change

Accessing apps:

Services, routing,  
and service

discovery Interaction

redundancy: Retries  
and other control



Access Free  
Microsoft

Application  
Architecture  
Guide Ebook  
loops Fronting  
services: Circuit  
breakers and API  
gateways

Troubleshooting:  
Finding the needle in  
the haystack Cloud-  
native data:

Breaking the data  
monolith

Kubernetes: Up and  
Running

Access Free  
Microsoft

Application  
Architecture  
Guide Ebook  
System architecture,  
processes, threads,  
memory

management, and  
more

Leveraging DevOps  
and Microservice  
Architecture to  
deliver SaaS  
Solutions

Microservices, IoT  
and Azure

Access Free  
Microsoft  
Application  
Architecture  
Guide Ebook

Azure Strategy and  
Implementation  
Guide

Developing  
Microservices  
Architecture on  
Azure with Open  
Source Technologies  
Building  
Applications and  
Infrastructure in the  
Cloud

# Access Free Microsoft

## Application

How do you start?  
How should you build  
a plan for cloud

migration for your  
entire portfolio? How  
will your organization  
be affected by these  
changes? This book,  
based on real-world  
cloud experiences by  
enterprise IT teams,  
seeks to provide the  
answers to these  
questions. Here,

# Access Free Microsoft

Application  
Architecture  
Guide Book

you 'll see what makes the cloud so compelling to enterprises; with which applications you should start your cloud journey; how your organization will change, and how skill sets will evolve; how to measure progress; how to think about security, compliance, and business buy-in;

# Access Free Microsoft

Application  
Architecture  
Guide Ebook

and how to exploit  
the ever-growing  
feature set that the  
cloud offers to gain  
strategic and  
competitive  
advantage.

A practical tutorial  
containing clear, step-  
by-step explanations  
of all the concepts  
required to  
understand the  
technology involved

# Access Free Microsoft

Application  
Architecture  
Guide eBook

in virtualizing your application infrastructure. Each chapter uses real-world scenarios so that the readers can put into practice what they learn immediately and with the right guidance. Each topic is written defining a common need and developing the process to solve it

# Access Free Microsoft

Application  
Architecture  
Guide Ebook

using Microsoft App-V. This book is for system administrators or consultants who want to master and dominate App-V, and gain a deeper understanding of the technology in order to optimize App V implementations. Even though the book does not include basic steps like installing



# Access Free Microsoft

Application  
Architecture  
Guide Ebook

App-V components or  
sequencing simple  
applications;

application  
virtualization

beginners will receive  
a comprehensive look  
into App-V before  
jumping into the  
technical process of  
each chapter.

Architect and design  
highly scalable,  
robust, clean and

# Access Free Microsoft

## Application Architecture

highly performant  
applications in .NET  
Core About This Book

Incorporate  
architectural soft-  
skills such as DevOps  
and Agile  
methodologies to  
enhance program-  
level objectives Gain  
knowledge of  
architectural  
approaches on the  
likes of SOA

# Access Free Microsoft

Application  
Architecture  
Guidance

architecture and  
microservices to  
provide traceability  
and rationale for  
architectural  
decisions Explore a  
variety of practical  
use cases and code  
examples to  
implement the tools  
and techniques  
described in the book  
Who This Book Is For  
This book is for

# Access Free Microsoft

Application  
Architecture  
Guide Ebook

experienced .NET  
developers who are  
aspiring to become  
architects of  
enterprise-grade  
applications, as well  
as software architects  
who would like to  
leverage .NET to  
create effective  
blueprints of  
applications. What  
You Will Learn Grasp  
the important aspects

# Access Free Microsoft

Application  
Architecture  
Guide Ebook  
and best practices of  
application lifecycle  
management

Leverage the popular  
ALM tools,  
application insights,  
and their usage to  
monitor performance,  
testability, and  
optimization tools in  
an enterprise Explore  
various  
authentication models  
such as social media-

# Access Free Microsoft

Application  
Architecture  
Guide eBook

based authentication,  
2FA and OpenID  
Connect, learn  
authorization  
techniques Explore  
Azure with various  
solution approaches  
for Microservices and  
Serverless  
architecture along  
with Docker  
containers Gain  
knowledge about the  
recent market trends

# Access Free Microsoft

Application  
Architecture  
Guide Ebook

and practices and  
how they can be  
achieved with .NET  
Core and Microsoft  
tools and  
technologies In Detail  
If you want to design  
and develop  
enterprise  
applications using  
.NET Core as the  
development  
framework and learn  
about industry-wide

# Access Free Microsoft

Application  
Architecture  
Guides Ebook

best practices and guidelines, then this book is for you. The book starts with a brief introduction to enterprise architecture, which will help you to understand what enterprise architecture is and what the key components are. It will then teach you



# Access Free Microsoft

Application  
Architecture  
Guide Ebook

about the types of patterns and the principles of software development, and explain the various aspects of distributed computing to keep your applications effective and scalable. These chapters act as a catalyst to start the practical implementation, and design and develop

# Access Free Microsoft

Application  
Architecture  
Guide Ebook

applications using different architectural approaches, such as layered architecture, service oriented architecture, microservices and cloud-specific solutions. Gradually, you will learn about the different approaches and models of the Security framework

# Access Free Microsoft

Application  
Architecture  
Guide eBook

and explore various authentication models and authorization techniques, such as social media-based authentication and safe storage using app secrets. By the end of the book, you will get to know the concepts and usage of the emerging fields, such as DevOps, BigData, architectural

# Access Free Microsoft

Application  
Architecture  
practices, and  
Artificial Intelligence.

Style and approach  
Filled with examples  
and use cases, this  
guide takes a no-  
nonsense approach to  
show you the best  
tools and techniques  
required to become a  
successful software  
architect.

Developing  
Microservices

# Access Free Microsoft

Application  
Architecture  
Guide Ebook

Architecture on Azure  
with Open Source  
Technologies is a  
complete, step-by-  
step guide to building  
flexible microservices  
architectures by  
leveraging services  
provided by the  
Microsoft Azure cloud  
platform, and key  
open-source  
technologies such as  
Java, Node.JS, .NET

# Access Free Microsoft

Application

Core and Angular.

Architecture

Expert Microsoft

consultants Ovais

Mehboob and Arvind

Chandaka guide

students step-by-step

through a realistic

case study project

that illuminates key

technical

implementation tasks

for establishing end

to end infrastructure,

developing cloud-

# Access Free Microsoft

Application  
Architecture  
Guide eBook  
native applications,  
automating  
deployment, and  
realizing value.

Enterprise  
Application  
Architecture with  
.NET Core  
Building Cloud Apps  
with Microsoft Azure  
Building Standardized  
Systems Across an  
Engineering  
Organization

Access Free  
Microsoft  
Application  
Best Practices for  
Architecture  
DevOps, Data Storage,  
High Availability, and  
More

Microsoft Azure  
Essentials -  
Fundamentals of  
Azure

Building  
Microservices  
Applications on  
Microsoft Azure  
Briggs

Azure in Action is



# Access Free Microsoft

Application  
Architecture  
Guide Ebook

a fast-paced  
tutorial intended  
for architects and  
developers  
looking to develop  
cloud-based  
applications on  
the Windows  
Azure Platform.

Written by two of  
Microsoft's leading  
Azure evangelists,

# Access Free Microsoft

Application  
Architecture  
Guide Ebook

it's designed both for readers new to cloud concepts and for those familiar with cloud development but new to Azure.

Starting with core concepts, the book explores designing and scaling front-end

# Access Free Microsoft

Application  
Architecture  
Guide Ebook

and back-end  
services that run  
in the cloud, and  
more advanced

scenarios in  
Windows Azure.

Later chapters  
introduce the rest  
of the Azure  
Services Platform  
with a particular  
focus on SQL

Access Free  
Microsoft

Application  
Architecture  
Guide Ebook  
Azure Database.  
Practical Software  
Architecture

Solutions from the  
Legendary Robert  
C. Martin (“Uncle  
Bob”) By applying  
universal rules of  
software  
architecture, you  
can dramatically  
improve developer

# Access Free Microsoft

Application  
Architecture  
Guide Ebook  
productivity  
throughout the life  
of any software

system. Now,  
building upon the  
success of his best-  
selling books  
Clean Code and  
The Clean Coder,  
legendary  
software  
craftsman Robert

# Access Free Microsoft

Application  
Architecture  
Guide Ebook

C. Martin (“Uncle Bob”) reveals those rules and helps you apply them. Martin’s Clean Architecture doesn’t merely present options. Drawing on over a half-century of experience in software

# Access Free Microsoft

Application  
Architecture  
Guide Ebook

environments of every imaginable type, Martin tells you what choices to make and why they are critical to your success. As you've come to expect from Uncle Bob, this book is packed with direct, no-

# Access Free Microsoft

## Application nonsense

solutions for the  
real challenges  
you'll face—the

ones that will  
make or break  
your projects.

Learn what  
software

architects need to  
achieve—and core  
disciplines and



Access Free  
Microsoft

Application  
Architecture  
Guide Ebook  
practices for  
achieving it  
Master essential  
software design  
principles for  
addressing  
function,  
component  
separation, and  
data management  
See how  
programming

# Access Free Microsoft

Application  
Architecture  
Guide Ebook

paradigms impose discipline by restricting what developers can do

Understand what's critically important and what's merely a "detail"

Implement optimal, high-level structures for

# Access Free Microsoft

Application  
Architecture  
Guide Ebook

web, database,  
thick-client,  
console, and  
embedded  
applications

Define appropriate  
boundaries and  
layers, and  
organize  
components and  
services See why  
designs and

# Access Free Microsoft

Application  
Architecture  
Guide Ebook

architectures go  
wrong, and how to  
prevent (or fix)  
these failures  
Clean Architecture  
is essential  
reading for every  
current or aspiring  
software architect,  
systems analyst,  
system designer,  
and software

## Access Free Microsoft

Application  
Architecture  
Guide Ebook

manager—and for every programmer who must execute someone else's designs. Register your product for convenient access to downloads, updates, and/or corrections as they become available.

# Access Free Microsoft

Application  
Architecture  
Guide Ebook

Leverage Azure's cloud capabilities to find the most optimized path to meet your firm's cloud infrastructure needs. Key Features: Get to grips with the core Azure infrastructure

# Access Free Microsoft

Application  
Architecture  
Guide Ebook

technologies and  
solutionsDevelop  
the ability to opt  
for cloud design  
and architecture  
that best fits your  
organizationCover  
the entire  
spectrum of cloud  
migration from  
planning to  
implementation

Access Free  
Microsoft  
Application  
and best  
practicesBook  
Description  
Guide Ebook

Microsoft Azure is a powerful cloud computing platform that offers a multitude of services and capabilities for organizations of any size moving



# Access Free Microsoft

Application  
Architecture  
Guide Ebook

to a cloud  
strategy. This  
fourth edition  
comes with the  
latest updates on  
cloud security  
fundamentals,  
hybrid cloud,  
cloud migration,  
Microsoft Azure  
Active Directory,  
and Windows

# Access Free Microsoft

Application  
Architecture  
Guide Ebook

Virtual Desktop. It encapsulates the entire spectrum of measures involved in Azure deployment that includes understanding Azure fundamentals, choosing a suitable cloud

# Access Free Microsoft

Application  
Architecture  
Guide Ebook

architecture,  
building on design  
principles,  
becoming familiar  
with Azure  
DevOps, and  
learning best  
practices for  
optimization and  
management. The  
book begins by  
introducing you to

# Access Free Microsoft

Application  
Architecture  
Guide Ebook

the Azure cloud platform and demonstrating the substantial scope of digital transformation and innovation that can be achieved with Azure's capabilities. The guide also

# Access Free Microsoft

Application  
Architecture  
Guide Ebook  
acquaints you  
with practical  
insights into

application  
modernization,  
Azure

Infrastructure as a  
Service (IaaS)  
deployment,  
infrastructure  
management, key  
application

# Access Free Microsoft

Application  
Architecture  
Guide Ebook

architectures, best practices of Azure DevOps, and Azure automation. By the end of this book, you will have acquired the skills required to drive Azure operations from the planning and cloud migration

# Access Free Microsoft

Application  
Architecture  
Guide Ebook

stage to cost  
management and  
troubleshooting.

What you will  
learn Understand  
core Azure  
infrastructure  
technologies and  
solutions Carry out  
detailed planning  
for migrating  
applications to the

Access Free  
Microsoft  
Application  
cloud with  
Architecture  
AzureDeploy and  
Guide Ebook  
run Azure  
infrastructure  
servicesDefine  
roles and  
responsibilities in  
DevOpsGet a firm  
grip on Azure  
security  
fundamentalsCarr  
y out cost



# Access Free Microsoft

Application  
Architecture  
Guide Ebook  
optimization in  
AzureWho this  
book is for This

book is designed  
to benefit Azure  
architects, cloud  
solution

architects, Azure  
developers, Azure  
administrators,  
and anyone who  
wants to develop

# Access Free Microsoft

## Application Architecture Guide Ebook

expertise in operating and administering the Azure cloud. Basic familiarity with operating systems and databases will help you grasp the concepts covered in this book.

Have you heard about the

# Access Free Microsoft

tremendous  
success Amazon  
and Netflix have  
had by switching  
to a microservice  
architecture? Are  
you wondering  
how this can  
benefit your  
company? Or are  
you skeptical  
about how it

# Access Free Microsoft

## Application Architecture Guide Ebook

might work? If you've answered yes to any of these questions, this practical book will benefit you. You'll learn how to take advantage of the microservice architectural style for building systems, and

# Access Free Microsoft

## Application Architecture Guide Ebook

learn from the experiences of others to adopt and execute this approach most successfully.

Introducing  
Windows 10 for IT  
Professionals  
Microsoft Azure  
Essentials Azure  
Web Apps for

Access Free  
Microsoft  
Application  
Developers  
Architecture  
Prescriptive  
Guide Ebook  
Architecture  
Guidance for  
Cloud Applications  
Microsoft Azure  
Architect  
Technologies and  
Design Complete  
Study Guide  
A Developer's  
Guide to DevOps

Access Free  
Microsoft

Application  
Architecture  
Guide Ebook  
Architecture the  
Right Way  
A Guide to

Preparing for the  
AZ-303 Microsoft  
Azure Architect  
Technologies  
Certification Exam  
A guide for  
architects and  
decision makers  
to craft complex

Access Free  
Microsoft  
Application  
Architecture  
Guide Ebook  
solutions tailored  
to meet business  
needs

Microsoft Azure  
Essentials from  
Microsoft Press is a  
series of free ebooks  
designed to help you  
advance your  
technical skills with  
Microsoft Azure. This  
third ebook in the



# Access Free Microsoft

Application  
Architecture  
Guide Ebook

series introduces  
Microsoft Azure  
Machine Learning, a  
service that a  
developer can use to  
build predictive  
analytics models (using  
training datasets from  
a variety of data  
sources) and then  
easily deploy those  
models for  
consumption as cloud

# Access Free Microsoft

Application  
Architecture  
Guide Ebook

web services. The ebook presents an overview of modern data science theory and principles, the associated workflow, and then covers some of the more common machine learning algorithms in use today. It builds a variety of predictive analytics models using

# Access Free Microsoft

Application  
Architecture  
Guide Ebook

real world data,  
evaluates several  
different machine  
learning algorithms  
and modeling  
strategies, and then  
deploys the finished  
models as machine  
learning web services  
on Azure within a  
matter of minutes.  
The ebook also  
expands on a working

# Access Free Microsoft

Application  
Architecture  
Guide Ebook  
Azure Machine  
Learning predictive  
model example to

explore the types of  
client and server  
applications you can  
create to consume  
Azure Machine  
Learning web services.

Watch Microsoft  
Press ' s blog and  
Twitter

(@MicrosoftPress) to

# Access Free Microsoft

Application  
Architecture  
Guide Ebook

learn about other free  
ebooks in the  
Microsoft Azure  
Essentials series.

This ebook walks you  
through a patterns-  
based approach to  
building real-world  
cloud solutions. The  
patterns apply to the  
development process  
as well as to  
architecture and

# Access Free Microsoft

Application  
Architecture  
Guide Ebook

coding practices. The content is based on a presentation developed by Scott Guthrie and delivered by him at the Norwegian Developers Conference (NDC) in June of 2013 (part 1, part 2), and at Microsoft Tech Ed Australia in

# Access Free Microsoft

Application  
Architecture  
Guide Ebook

September 2013 (part 1, part 2). Many others updated and augmented the content while transitioning it from video to written form. Who should read this book Developers who are curious about developing for the cloud, are considering a move to the cloud,

# Access Free Microsoft

Application  
Architecture  
Guide Ebook

or are new to cloud development will find here a concise

overview of the most important concepts and practices they need to know. The concepts are illustrated with concrete examples, and each chapter includes links to other resources that provide



# Access Free Microsoft

Application  
Architecture  
Guide Ebook

more in-depth information. The examples and the links to additional resources are for Microsoft frameworks and services, but the principles illustrated apply to other web development frameworks and cloud environments as well. Developers who are

# Access Free Microsoft

Application  
Architecture  
Guide Ebook

already developing for the cloud may find ideas here that will help make them more successful. Each chapter in the series can be read independently, so you can pick and choose topics that you're interested in. Anyone who watched Scott Guthrie's "Building

# Access Free Microsoft

Application  
Architecture  
Guide Ebook  
Real World Cloud  
Apps with Windows  
Azure" presentation

and wants more  
details and updated  
information will find  
that here.

Assumptions This  
ebook expects that you  
have experience  
developing web  
applications by using  
Visual Studio and

# Access Free Microsoft

Application  
Architecture  
Guide Ebook

ASP.NET. Familiarity with C# would be helpful in places.

Get a head start evaluating Windows 10--with technical insights from award-winning journalist and Windows expert Ed Bott. This guide introduces new features and capabilities, providing

# Access Free Microsoft

Application  
Architecture  
Guide Ebook

a practical, high-level overview for IT professionals ready to begin deployment planning now. This edition was written after the release of Windows 10 version 1511 in November 2015 and includes all of its enterprise-focused features. The goal of this book is to

# Access Free Microsoft

## Application Architecture Guide Ebook

help you sort out what 's new in Windows 10, with a special emphasis on features that are different from the Windows versions you and your organization are using today, starting with an overview of the operating system, describing the many

# Access Free Microsoft

## Application Architecture Guide Ebook

changes to the user experience, and diving deep into deployment and management tools where it ' s necessary.

We ' re thrilled to share another free ebook with you:

Introducing Microsoft Azure HDInsight, by Avkash Chauhan, Valentine Fontama, Michele Hart, Wee

# Access Free Microsoft

Application  
Architecture  
Guide Ebook  
Hyong Tok, and Buck  
Woody. Here are the  
download links:

Download the PDF  
(6.37 MB; 130 pages)  
from <http://aka.ms/IntroHDInsight/PDF>

Download the EPUB  
(8.46 MB) from <http://aka.ms/IntroHDInsight/EPUB>

Download  
the MOBI (12.8 MB)  
from <http://aka.ms/>



# Access Free Microsoft

Application  
IntroHDInsight/ MOB

Architecture  
I Download the code  
Guide Ebook  
samples (6.83 KB)

from <http://aka.ms/IntroHDInsight/CompContent> Get a head start evaluating

Windows Azure - with technical insights from a Microsoft MVP

Mitch Tulloch. This guide introduces the latest features and

# Access Free Microsoft

Application  
Architecture  
Guide Ebook

capabilities, with scenario-based advice on how the platform can meet the needs of your business. Get the high-level overview you need to begin preparing your deployment now.

Topics include:  
Understanding  
Windows Azure  
Windows Azure

Access Free  
Microsoft  
Application  
Compute Services  
Architecture  
Windows Azure  
Guide Ebook  
Network Services  
Windows Azure Data  
Services Windows  
Azure App Services  
Getting Started with  
Windows Azure  
Applied Architecture  
Patterns on the  
Microsoft Platform  
Implementing cloud  
design, DevOps, IoT,

Access Free  
Microsoft

Application  
Architecture  
Guide Ebook  
and serverless  
solutions on your  
public cloud

An In-depth, Scenario-  
driven Approach to  
Architecting Systems  
Using Microsoft  
Technologies  
Cloud Architecture  
Patterns

Fowler

Create secure,  
scalable, high-

Access Free  
Microsoft

Application  
availability  
Architecture  
Guide EBook  
applications on the  
cloud, 3rd Edition

Developing Cloud  
Native Applications in  
Azure using .NET  
Core

*This is the eBook of  
the printed book  
and may not  
include any media,  
website access  
codes, or print*

# Access Free Microsoft

*Application  
Architecture  
Guide Ebook*  
*supplements that  
may come  
packaged with the  
bound book.*

*Introducing  
Microsoft Power BI  
enables you to  
evaluate when and  
how to use Power  
BI. Get inspired to  
improve business  
processes in your  
company by*

# Access Free Microsoft

*Application  
Architecture  
Guide Ebook*

*leveraging the available analytical and collaborative features of this environment. Be sure to watch for the publication of Alberto Ferrari and Marco Russo's upcoming retail book, Analyzing Data with Power BI and Power Pivot for*

Access Free  
Microsoft

Application  
Architecture  
Guide Ebook  
Excel (ISBN  
9781509302765).

Go to the book's  
page at the  
Microsoft Press

Store here for more  
details:<http://aka.ms/analyzingdata/details>. Learn more  
about Power BI at <https://powerbi.microsoft.com/>.

This second Preview  
Page 232/314



# Access Free Microsoft

*Edition ebook, now  
with 16 chapters, is  
about writing  
applications for  
Xamarin.Forms, the  
new mobile  
development  
platform for iOS,  
Android, and  
Windows phones  
unveiled by  
Xamarin in May  
2014.*

# Access Free Microsoft

*Xamarin.Forms lets you write shared user-interface code in C# and XAML that maps to native controls on these three platforms.*

*Guide to designing and developing cloud native applications in*

*Azure DESCRIPTION*

*The mainstreaming*

# Access Free Microsoft

*Application  
Architecture  
Guide Ebook*

*of Cloud Native  
Architecture as an  
enterprise discipline  
is well underway.  
According to the  
Forbes report in  
January 2018, 83%  
of the enterprise  
workloads will be in  
the cloud by 2020  
and 41% of the  
enterprise  
workloads will run*

## Access Free Microsoft

*Application Architecture Guide Ebook*  
*on public cloud platforms, while another 22% will be running on hybrid cloud platforms.*

*Customers are embarking on the enterprise digital transformation journeys. Adopting cloud and cloud native architectures and microservices*

# Access Free Microsoft

*Application Architecture Guide Ebook*  
*is an important aspect of the journey. This book starts with a brief introduction on the basics of cloud native applications, cloud native application patterns. Then it covers the cloud native options available in Azure.*

# Access Free Microsoft

*The objective of the book is to provide practical guidelines to an architect/designer/consultant/developer, who is a part of the Cloud application definition Team.*

*The book articulates a methodology that the implementation*

# Access Free Microsoft

*Application  
Architecture  
Guide Ebook*

*team needs to follow in a step-by-step manner and adopt them to fulfil the requirements for enablement of the Cloud Native application. It emphasizes on the interpersonal skills and techniques for organizing and directing the Cloud*

# Access Free Microsoft

*Application  
Architecture  
Guide Ebook*

*Native definition,  
leadership buy-in,  
leading the  
transition from  
planning to  
implementation. It  
also highlights the  
steps to be followed  
for performing the  
cloud native  
applications, cloud  
native patterns in  
the development of*



# Access Free Microsoft

*Application  
Architecture  
Guide Ebook*

*Cloud native applications, Cloud native options available in Azure, Developing BOT, Microservices based on Azure. It also covers how to develop simple IoT applications, Machine learning based applications, server less*

# Access Free Microsoft

*Application  
Architecture  
Guide Ebook*

*architecture, using  
Azure with a  
practical and  
pragmatic  
approach. This book  
embraces a  
structured  
approach organized  
around the  
following key  
themes, which  
represent the  
typical phases that*

# Access Free Microsoft

*Application Architecture  
Guide Ebook*  
*an enterprise  
traverses during its  
Cloud Native*

*application journey:*

● *Basics of Cloud  
Native Applications:*

*It covers basics of  
cloud native*

*applications using*

*.NET core.* ● *Cloud*

*Native Application*

*Patterns: The*

*reader will*

# Access Free Microsoft

*Application  
Architecture  
Guide Ebook*  
*understand the  
patterns for  
developing Cloud  
Native Applications.*

● *Cloud Native  
Options available in  
Azure: The reader  
will understand the  
different options  
available in Azure.*

● *Developing a  
Simple BOT using  
.NET Core: The*

# Access Free Microsoft

*Application  
Architecture  
Guide Ebook*  
reader will  
understand the  
Azure BOT

*framework basics  
and will learn how  
to develop a simple  
BOT. ● Developing  
cloud native  
applications  
leveraging  
Microservices: The  
reader will  
understand the*

# Access Free Microsoft

*Application  
Architecture  
Guide Ebook*  
concepts of  
developing micro  
services using the  
Azure API Gateway  
Manager. ●

*Developing  
Integration  
capabilities using  
serverless  
architecture: The  
reader will  
understand the  
integration*

# Access Free Microsoft

*Application  
Architecture  
Guide EBook*  
*capabilities and  
various options  
available in Azure ●*

*Developing a  
simple IoT  
application: The  
reader will  
understand the  
basics of  
developing IoT  
applications. ●*

*Developing a  
simple ML based*

# Access Free Microsoft

*Application  
Architecture  
Guide Ebook*  
*application: The  
reader will  
understand*

*Machine Learning  
basics and how to  
develop a simple  
ML application ●  
Different enterprise  
use cases, which  
enable digital  
transformation  
using the Cloud  
Native Applications:*



# Access Free Microsoft

*The reader will  
learn about  
different use cases  
that can be built  
using cloud native  
applications KEY  
FEATURES (Add 5-7  
key features only)*

- *Basics of Cloud Native Applications*
- *Designing Microservices*
- *Different cloud*

# Access Free Microsoft

*Application  
Architecture  
Guide Ebook*

*native options for  
developing Cloud  
Native Applications  
in Azure ● BOTs,  
Web Apps, Mobile  
Apps, Logic Apps,  
Service Bus, Azure  
Functions ● Azure  
IOT Applications ●  
Azure Machine  
Learning Basics ●  
Enterprise Digital  
Journeys WHAT*

# Access Free Microsoft

Application  
Architecture  
Guide Ebook

## WILL YOU LEARN

*This book aims to:*

- *Demonstrate the importance of a Cloud Native application in elevating the effectiveness of organizational transformation programs and digital enterprise journeys, using MS*

Access Free  
Microsoft  
Application  
Azure ●

*Disseminate current  
advancements and  
thought leadership  
in the area of Cloud  
Native architecture,  
in the context of  
digital enterprises*

● *Provide initiatives  
with evidence-  
based, credible,  
field tested and  
practical guidance*

# Access Free Microsoft

*Application  
Architecture  
Guide Ebook*  
*in crafting their  
respective  
architectures; and*

● *Showcase  
examples and  
experiences of the  
innovative use of  
Cloud Native  
Applications in  
enhancing  
transformation  
initiatives. WHO*

**THIS BOOK IS FOR**

# Access Free Microsoft

*The book is*

*intended for anyone  
looking for a career  
in Cloud*

*technology, all  
aspiring Cloud  
Architects who  
want to learn Cloud  
Native*

*Architectures,  
Microservices, IoT,  
BoT and Microsoft  
Azure platform and*

# Access Free Microsoft

## Application

*working*

## Architecture

## Guide Ebook

*want to switch their*

*career in Cloud*

*Technology. While*

*no prior knowledge*

*of Azure or related*

*technologies is*

*assumed, it will be*

*helpful to have*

*some .Net*

*programming*

*experience. In*

# Access Free Microsoft

*Application  
Architecture  
Guide Ebook*  
In addition, the target audience of this book are, ●

*Business Leaders,  
Chief Architects,  
Analysts and  
Designers seeking  
better, quicker and  
easier approaches  
to respond to needs  
of their internal and  
external customers;*

● *CIOs/CTOs of*



# Access Free Microsoft

*Application  
Architecture  
Guide Ebook*  
business software  
companies  
interested in

*incorporating Cloud  
Native architecture  
to differentiate their  
products and  
services offerings  
and increasing the  
value proposition to  
their customers; ●  
Consultants and  
practitioners*

Access Free  
Microsoft

Application  
Architecture  
Guide Ebook  
*desirous of new  
solutions and  
technologies to  
improve*

*productivity of their  
clients; ● Academic  
and consulting  
researchers looking  
to uncover and  
characterize new  
research problems  
and programmes ●  
Practitioners and*

Access Free  
Microsoft

Application  
Architecture  
Guide Ebook  
professionals  
involved with  
organizational

technology  
strategic planning,  
technology  
procurement,  
management of  
technology  
projects, consulting  
and advising on  
technology issues  
and management of

# Access Free Microsoft

## Application

*total cost of  
ownership. Table of*

*Contents 1. Basics*

*of Cloud Native*

*Applications 2.*

*Cloud Native*

*Application Patterns*

*3. Cloud Native*

*Options available in*

*Azure - BOTs, Logic*

*Apps, Service Bus,*

*Azure*

*Microservices, ML*

Access Free  
Microsoft

Application  
services 4.

Architecture  
Guide Ebook  
Developing a  
Simple BOT using  
.NET Core 5.

Developing Cloud  
Native applications  
leveraging

Microservices and  
Azure API Gateway

6. Developing  
Integration  
capabilities using  
serverless

# Access Free Microsoft

*Application  
Architecture 7.*

*Developing a  
simple IoT  
Guide Ebook*

*application 8.*

*Developing a  
simple ML based  
application 9.*

*Different enterprise  
use cases which  
enable digital  
transformation  
using Cloud Native  
Applications*

# Access Free Microsoft

*Application  
Architecture  
Guide Ebook*

*Use this book as  
your one-stop shop  
for architecting a  
world-class DevOps  
environment with  
Microsoft  
technologies. .NET  
DevOps for Azure is  
a synthesis of  
practices, tools, and  
process that,  
together, can equip  
a software*

# Access Free Microsoft

*Application  
Architecture  
Guide Ebook*  
organization to  
move fast and  
deliver the highest  
quality software.

*The book begins by  
discussing the most  
common challenges  
faced by developers  
in DevOps today  
and offers options  
and proven  
solutions on how to  
implement DevOps*



# Access Free Microsoft

*Application  
Architecture  
Guide Ebook*  
for your team.

*Daily, millions of  
developers use  
.NET to build and  
operate mission-  
critical software  
systems for  
organizations  
around the world.  
While the  
marketplace has  
scores of  
information about*

# Access Free Microsoft

*Application  
Architecture  
Guide Ebook*

*the technology, it is completely up to you to put together all the blocks in the right way for your environment. This book provides you with a model to build on. The relevant principles are covered first along with how to implement that part*

# Access Free Microsoft

*Application  
Architecture  
Guide Ebook*

*of the environment.  
And while variances  
in tools, language,  
or requirements will  
change the needed  
implementation,  
the DevOps model  
is the architecture  
for the working  
environment for  
your team. You can  
modify parts of the  
model to customize*

# Access Free Microsoft

Application

*it to your*

Architecture  
Guide Ebook  
*enterprise, but the  
architecture will*

*enable all of your  
teams and*

*applications to  
accelerate in*

*performance. What*

*You Will Learn Get*

*your .NET*

*applications into a*

*DevOps*

*environment in*

# Access Free Microsoft

*Application  
Architecture  
Guide Ebook*

*Azure Analyze and address the part of your DevOps process that causes delays or bottlenecks Track code using Azure Repos and conduct acceptance tests Apply the rules for segmenting applications into Git repositories Underst*

# Access Free Microsoft

*Application  
Architecture  
Guide Ebook*  
and the different  
types of builds and  
when to use

*each*  
Know how to  
think about code  
validation in your  
DevOps environme  
nt  
Provision and  
configure  
environments;  
deploy release  
candidates across  
the environments in

# Access Free Microsoft

*Application  
Architecture  
Guide Ebook*  
*AzureMonitor and  
support software  
that has been  
deployed to a  
production*

*environment Who  
This Book Is For*

*.NET Developers  
who are using or  
want to use DevOps  
in Azure but don't  
know where to  
begin*

Access Free  
Microsoft

Application  
Microservice  
Architecture

Guide Ebook  
Designing change-  
tolerant software  
Patterns and  
Paradigms for  
Scalable, Reliable  
Services

Cloud Application  
Architectures

Introducing  
Windows Azure for  
IT Professionals



Access Free  
Microsoft  
Application  
Production-Ready  
Architecture  
Microservices  
Guide Ebook  
Azure in Action

***The definitive  
guide-fully  
updated for  
Windows 10  
and Windows  
Server 2016  
Delve inside  
Windows  
architecture  
and internals,***

Page 273/314

Access Free  
Microsoft  
Application  
Architecture  
Guide Ebook

***and see how  
core  
components  
work behind the  
scenes. Led by a  
team of  
internals  
experts, this  
classic guide  
has been fully  
updated for  
Windows 10  
and Windows***

Access Free  
Microsoft

Application

**Server 2016.**

Architecture

Guide Ebook

**Whether you  
are a developer  
or an IT  
professional,  
you'll get  
critical, insider  
perspectives on  
how Windows  
operates. And  
through hands-  
on experiments,  
you'll**

Access Free  
Microsoft

*Application  
Architecture  
Guide Ebook*  
**experience its  
internal  
behavior firstha  
nd-knowledge  
you can apply to  
improve  
application  
design,  
debugging,  
system  
performance,  
and support.  
This book will**

Access Free  
Microsoft

Application

*help you: ·*

*Architecture  
Guide Ebook*  
**Understand the  
Window system  
architecture  
and its most  
important  
entities, such as  
processes and  
threads ·**

**Examine how  
processes  
manage**

**resources and**

Access Free  
Microsoft

Application

***threads***

***scheduled for  
execution***

***inside***

***processes ·***

***Observe how***

***Windows***

***manages virtual***

***and physical***

***memory · Dig***

***into the***

***Windows I/O***

***system and see***

Access Free  
Microsoft

*Application  
Architecture  
Guide Ebook*

***how device  
drivers work  
and integrate  
with the rest of  
the system · Go  
inside the  
Windows  
security model  
to see how it  
manages  
access,  
auditing, and  
authorization,***

Access Free  
Microsoft

Application  
Architecture  
Guide Ebook  
***and learn about  
the new  
mechanisms in  
Windows 10  
and Server  
2016***

***In the race to  
compete in  
today's fast-  
moving  
markets, large  
enterprises are  
busy adopting***



Access Free  
Microsoft  
Application

***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,***

Access Free  
Microsoft

*Application  
Architecture  
Guide Ebook*  
**and not enough  
on the types of  
processes  
technology  
enables. What if  
different lines  
of business  
could build  
their own  
services and ap  
plications—and  
decision-  
making was**

Access Free  
Microsoft

Application  
Architecture  
Guide Ebook  
***distributed  
rather than  
centralized?***

***This report  
explores the  
concept of a  
digital business  
platform as a  
way of  
empowering  
individual  
business  
sectors to act***

Access Free  
Microsoft

*Application  
Architecture  
Guide Ebook*

***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)***

Access Free  
Microsoft

Application  
Architecture  
Guide Ebook

***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***

Access Free  
Microsoft

Application  
Architecture  
Guide Ebook

**organizational  
changes for  
developing  
business  
capabilities  
through cross-  
functional  
product teams  
A platform for  
integrating  
applications,  
data sources,  
business**

Access Free  
Microsoft

*Application  
Architecture  
Guide Ebook*  
**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**

Access Free  
Microsoft

*Application  
Architecture  
Guide Ebook*

***Tools including  
Integration  
Platform as a  
Service,  
Application  
Platform as a  
Service, and  
Integration  
Software as a  
Service The  
challenge of  
integrating  
microservices***



Access Free  
Microsoft

*Application  
Architecture  
Guide Ebook*  
**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**

Access Free  
Microsoft

*Application  
Architecture  
Guide Ebook*  
**core component  
of a digital  
business  
platform to  
serve every  
audience in  
your  
organization.**

**Gain a  
360-degree view  
of Microsoft  
Power Platform  
and combine**

Access Free  
Microsoft

*Application  
Architecture  
Guide Ebook*  
***the benefits of  
Power Apps,  
Power BI,  
Power  
Automate,  
Azure, and  
Dynamics 365  
to build an  
enterprise  
application  
platform for  
your  
organization***

Access Free  
Microsoft  
Application

**Key**

**Features Explorer  
e various**

**Microsoft cloud  
components  
and find out  
how they can  
enhance your  
Power Platform  
solutions Get to  
grips with  
Microsoft  
Power**

Access Free  
Microsoft

*Application  
Architecture  
Guide Ebook*  
**Platform's  
security and  
extensibility,  
integration, and  
data migration  
modelsDiscover  
architectural  
best practices  
for designing  
complex  
enterprise  
solutionsBook  
Description For**

Access Free  
Microsoft

*Application  
Architecture  
Guide Ebook*

***forward-looking  
architects and  
decision makers  
who want to  
craft complex  
solutions to  
serve growing  
business needs,  
Microsoft  
Power Platform  
Enterprise  
Architecture  
offers an array***

Access Free  
Microsoft

*Application  
Architecture  
Guide Ebook*  
**of architectural  
best practices  
and techniques.  
With this book,  
you'll learn how  
to design  
robust software  
using the tools  
available in the  
Power Platform  
suite and be  
able to  
integrate them**

Access Free  
Microsoft

*seamlessly with  
various  
Microsoft 365  
and Azure  
components.  
Unlike most  
other resources  
that are  
overwhelmingly  
long and  
unstructured,  
this book covers  
essential*



Access Free  
Microsoft

*Application  
Architecture  
Guide E-book*

***concepts using  
concise yet  
practical  
examples to  
help you save  
time. You'll  
develop the  
skills you need  
to architect,  
design, and  
manage a  
complex  
solution as you***

Access Free  
Microsoft

*Application  
Architecture  
Guide Ebook*  
**follow the  
journey of a  
fictitious  
enterprise  
customer as  
they enter the  
world of Power  
Platform.**

**Throughout the  
book, you'll  
discover how to  
combine the  
functionality of**

Access Free  
Microsoft

*Application  
Architecture  
Guide Ebook*  
**Power Apps,  
Power  
Automate,  
Power BI, and  
Power Virtual  
Agents with  
various  
methodologies  
to effectively  
address  
application  
lifecycle  
management,**

Access Free  
Microsoft

Application  
Architecture  
Guide Ebook

***security, and  
extensibility.  
Finally, you'll  
learn how to  
overcome  
common  
challenges in  
migrating data  
to and from  
Microsoft  
Power Platform  
using proven  
techniques. By***

Access Free  
Microsoft

Application  
Architecture  
Guide Ebook

***the end of this  
book, you'll  
have the  
strategic  
perspective of  
an enterprise  
architect to  
make accurate  
architectural  
decisions for  
your complex  
Power Platform  
projects. What***

Access Free  
Microsoft

Application  
**you will learn U**  
Architecture  
**nderstand**  
Guide Ebook  
**various**

**Dynamics 365**  
**CRM, ERP, and**  
**AI modules for**  
**creating Power**  
**Platform solutio**  
**nsEnhance**  
**Power Platform**  
**with Microsoft**  
**365 and**  
**AzureFind out**

Access Free  
Microsoft

*Application  
Architecture  
Guide Ebook*  
**which regions,  
staging  
environments,  
and user  
licensing  
groups need to  
be employed  
when creating  
enterprise solut  
ionsImplement  
sophisticated  
security by  
using various**

Access Free  
Microsoft

*Application  
Architecture  
Guide Ebook*

***authentication  
and  
authorization te  
chniquesExtend  
Power Apps,  
Power BI, and  
Power  
Automate to  
create custom a  
pplicationsInte  
grate your  
solution with  
various in-***



Access Free  
Microsoft

Application  
Architecture  
Guide Ebook

**house Microsoft  
components or  
third-party  
systems using  
integration  
patternsWho  
this book is for  
This book is for  
enterprise  
architects and  
technical  
decision makers  
who want to**

Access Free  
Microsoft

*Application  
Architecture  
Guide Ebook*  
**craft complex  
solutions using  
Microsoft  
Power Platform  
to serve  
growing  
business needs  
and to stay  
competitive in  
the modern IT  
world. A basic  
understanding  
of Microsoft**

Access Free  
Microsoft

*Application  
Architecture  
Guide Ebook*  
**Power Platform  
will help you to  
get started with  
this book.**

**A software  
architect's  
digest of core  
practices,  
pragmatically  
applied  
Designing  
effective  
architecture is**

Access Free  
Microsoft

Application  
**your best  
strategy for  
managing  
project**

**complexity-and  
improving your  
results. But the  
principles and  
practices of  
software archite  
cting-what the  
authors call the  
“science of hard**

Access Free  
Microsoft

*Application  
Architecture  
Guide Ebook*

***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***

Access Free  
Microsoft

*Application  
Architecture  
Guide Ebook*

***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***

Access Free  
Microsoft

Application  
Architecture  
Guide Ebook  
**appropriate  
architecture  
Examine**

**domain-driven  
design in both  
theory and  
implementation**

**Shift your  
approach to  
code first,  
model**

**later-including  
multilayer**

Access Free  
Microsoft

Application  
**architecture**

Architecture  
**Capture the  
benefits of**

Guide Ebook  
**prioritizing  
software**

**maintainability**

**See how**

**readability,**

**testability, and**

**extensibility**

**lead to code**

**quality Take a**

**user experience**



Access Free  
Microsoft

*(UX) first  
approach,  
rather than  
designing for  
data Review  
patterns for  
organizing  
business logic  
Use event  
sourcing and  
CQRS together  
to model  
complex*

Access Free  
Microsoft

Application

**business**

Architecture

**domains more**

Guide EBook

**effectively**

***Delve inside the  
persistence***

***layer, including  
patterns and***

***implementation***

.

***Cloud Design  
Patterns***