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Eventually, you
will completely
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further
experience and
success by

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spending more
cash. yet when?
attain you take
that you require
to acquire those
every needs gone
having
significantly
cash? Why don't
you attempt to
acquire
something basic
in the
beginning?

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That's something
that will guide
you to
understand even
more regarding
the globe,
experience, some
places, when
history,
amusement, and a
lot more?

It is your
completely own

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period to
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operate
Microsoft

reviewing habit.

in the middle of

guides you could

enjoy now is

azure service

fabric build

microsoft below.

Build

microservices

and container

solutions using

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Azure Build

*Fabric and Azure
Container*

Service Azure

~~*Service Fabric*~~

~~*Tutorial 1*~~

~~*Introduction*~~

Develop

Microservices

App with Service

Fabric and

Visual Studio

Getting Started

with Microsoft

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~~Service Build~~
Getting Started
with Microsoft
Service Fabric

Azure Service

Fabric -

Tutorial 2 -

Windows

Installation

~~Introduction on~~

~~Microsoft Azure~~

~~Service Fabric~~

Overview of

Service Fabric |

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*Azure Friday at
Build 2018*

**Creating and
Deploying
Stateless**

**Service With
Service Fabric
to Azure**

Intro
to Azure Service
Fabric Service
Fabric Mesh,
Container

Instances and
more Azure

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Compute Options

| Microsoft

Ignite 2018

Azure Service

Fabric Mesh

preview | Azure

Friday

Kubernetes in 5

mins Monolithic

vs Microservice

Architecture

Debate What is

Kubernetes ~~REST~~

~~API~~ concepts and

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~~examples~~ ★ What
are
microservices?

Service Fabric
Applications in
Visual Studio
2019 | Microsoft
Azure

What Is Azure? |
Microsoft Azure
Tutorial For
Beginners |
Microsoft Azure
Training |

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~~Simplilearn0032~~

~~— [?] Introduction
to highly~~

~~scalable web api
using Service
Fabric~~

~~Microservices
with Service~~

~~Fabric. Easy...
or is it? —~~

~~Daniel Marbach
0031 - [?][?]~~

~~Beginners guide
to setting up a~~

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local Build

development

Service Fabric

cluster

AzureTalk: Azure

Service Fabric

Demo Session

Understanding

Azure Service

Fabric Azure

Service Fabric:

The road ahead

for

microservices :

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Build 2018

~~Service Fabric
Setup in Azure~~

~~Part 1 Microsoft
Azure Service
Fabric Demo for
Development~~

Deploying your
application to
Service Fabric

S208 -

Microservices

with .NET on

Service Fabric -

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**Sudhanva Huruli,
Vaclav Turecek
Azure Service
Fabric Mesh**

Overview *Azure
Service Fabric
Build Microsoft
Azure Service
Fabric. Build
and operate
always-on,
scalable,
distributed
apps. Simplify*

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microservices
development and
application life
cycle

management.

Reliably scale
and orchestrate
containers and
microservices.

Data-aware
platform for low-
latency, high-
throughput
workloads with

Download Free Azure Service

stateful
containers or
microservices.

*Azure Service
Fabric -
Building
microservices |
Microsoft ...
Azure Service
Fabric at
Microsoft Build
2018 Adding
serverless*

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Capabilities to
Service Fabric.
Earlier today,
we shared our
product roadmap
and demonstrated
Azure...

Enhancements to
Service Fabric
Clusters. We
recently rolled
out the 6.2
release of
Service Fabric

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Azure Service

providing Build

general...

Manage Service

...

Azure Service

Fabric at

Microsoft Build

2018 | Azure

blog ...

Microsoft Azure

Service Fabric

Architecture.

Service Fabric

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is a state-of-the-art distributed system that allows developers to easily build and manage Internet scale services such as Azure DB, Azure Document DB, and Bing Cortana. In this talk, Gopal

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Kakivaya will
cover the hard
distributed
systems problems
developers
encounter when
building such
services and how
the major
subsystems of
Service Fabric
come together to
provide
effective

Download Free Azure Service Fabric Build solutions to those hard problems.

*Microsoft Azure
Service Fabric
Architecture
For Windows
development, the
Service Fabric
.NET SDK is
integrated with
Visual Studio
and PowerShell.*

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For Linux
development, the
Service Fabric
Java SDK is
integrated with
Eclipse, and
Yeoman is used
to generate
templates for
Java, .NET Core,
and container
applications.
Compliance.

Azure Service

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Fabric Build
Provider is
Microsoft
available in all
Azure regions
and is compliant
with all Azure
compliance
certifications,
including: SOC,
ISO, PCI DSS,
HIPAA, and GDPR.
For a complete
list, see
Microsoft ...

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*Overview of
Azure Service
Fabric - Azure
Service Fabric*

...

First of all, SF came out of Microsoft as it's internal product. SF powers Microsoft Azure. Most of the Azure

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services Build
Microsoft
in one way or another run on top of Service Fabric. This includes Cosmos DB, Event Hubs, Service Bus, SQL Server, Azure Functions just to name a few you definitely know.

*Is Azure Service
Page 24/168*

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*Fabric still
relevant in 2020*

The Service

Fabric SDK and
tools provide a
service template
to help you
create a
containerized
application.

*Create an Azure
Service Fabric
container*

Download Free Azure Service

application Build...

The Azure
Resource Model
(ARM) template
for traditional
Service Fabric
clusters
requires you to
define a cluster
resource
alongside a
number of
supporting
resources, all

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of which must be "wired up" correctly (upon deployment and throughout the lifecycle of the cluster) in order for the cluster and your services to function properly.

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*managed clusters
(preview) -
Azure Service*

...

The Service
Fabric Tools are
part of the
Azure
Development
workload in
Visual Studio
2017 and 2019.
Enable this
workload as part

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of your Visual
Studio
Microsoft
installation. In
addition, you
need to install
the Microsoft
Azure Service
Fabric SDK and
runtime using
Web Platform
Installer.

Install the
Microsoft Azure
Service Fabric

Download Free Azure Service Fabric Build SDK

Microsoft

*Set up a Windows
development
environment -
Azure Service*

...

Service Fabric
as a
microservices
platform. Azure
Service Fabric
emerged when
Microsoft

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transitioned from delivering boxed products, which were typically monolithic, to delivering services. The experience of building and operating large services, like Azure SQL Database and

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Azure Cosmos DB,
shaped Service
Fabric. The
platform evolved
over time as
more services
adopted it.

*Azure Service
Fabric - docs.mi
crosoft.com*
Azure Service
Fabric
documentation.

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Azure Service

Fabric is a distributed systems platform that makes it easy to package, deploy, and manage scalable and reliable microservices and containers.

Azure Service

Fabric

Page 33/168

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*documentation /
Microsoft Docs
Microsoft Build
; Community
Events ... The
Azure Service
Fabric 7.2
release is
loaded with new
features,
supportability,
and performance
enhancements.
1,001. Service*

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Fabric Build

Community
Q&A call 49

Microsoft
servicefabric on

10-08-2020 01:10

PM. Service

Fabric Community

Q&A call 49 ...

Azure Service

Fabric -

Microsoft Tech

Community

Azure Service

Fabric

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simplifies
developing
applications
that use a
microservice
architecture,
freeing
developers to
focus on
building
features that
deliver customer
value instead of
managing

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Infrastructure.

Service Fabric
on Azure Azure

Service Fabric

gives you
deployment
options.

Pricing -

Service Fabric |

Microsoft Azure

Description

Service Fabric

is a state-of-

Download Free Azure Service

the-art
distributed
system that
allows
developers to
easily build and
manage Internet
scale services
such as Azure
DB, Azure
Document DB, and
Bing Cortana.

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Service Fabric
Architecture /
Build 2015 ...

Published date:

21 May, 2018.

Azure Service

Fabric is a
microservice
platform for
business

critical
applications.

Today, we are
happy to share

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Azure Service

Fabric Mesh,

which offers the
same

reliability,
mission-critical
performance and
scale customers
get with Service
Fabric, but no
more overhead of
cluster
management and
patching

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operations.

Service Fabric

Mesh supports

both Windows and

Linux containers

allowing you to

develop with any

programming

language and

framework of

your choice.

Azure Service

Fabric | Service

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*Fabric Mesh/
Azure updates*

...

Microsoft Azure
Service Fabric
standalone Azure
Service Fabric
is a distributed
systems platform
that makes it
easy to package,
deploy, and
manage scalable
and reliable

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microservices
and containers.
To build and run
Azure Service
Fabric
applications on
your Windows
development
machine, install
the Service
Fabric runtime,
SDK, and tools.

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*Service Fabric
Standalone
Cluster for ...*

Azure Service
Fabric 7.2 is
now available!
We're excited to
announce that
7.2 release of
the Service
Fabric runtime
has started
rolling out to
the various

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Azure regions
along with
tooling and SDK
updates. The
updates for .NET
SDK, Java SDK
and Service
Fabric runtimes
will be
available
through Web
Pl...

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Fabric 7.2

Release -

*Microsoft Tech
Community*

On top of that
you build your
own application
image with your
code and content
needed to run
the application
in a self
contained
Windows

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container.

Behind the scenes your application image now uses several layers that will be downloaded from the Docker Hub or any other container registry.

Service Fabric

Page 47/168

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*Nodes patching
and Container
patching ...*

At BUILD 2016
today Microsoft
announced that
its Azure
Service Fabric
has exited
Preview and is
now Generally
Available. Azure
Service Fabric
is a distributed

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systems platform
that makes it
easy to package,
deploy, and
manage scalable
and reliable
microservices.
Service Fabric
represents the
next-generation
middleware
platform for
building and
managing these e

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Enterprise-class,
Tier-1 cloud ...

Build, operate,
and orchestrate
scalable
microservices
applications in
the cloud This
book combines a
comprehensive
guide to success

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with Microsoft
Fabric and a
practical
catalog of
design patterns
and best
practices for
microservices
design,
implementation,
and operation.

Haishi Bai
brings together

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all the Build
information
you'll need to
deliver scalable
and reliable
distributed
microservices
applications on
Service Fabric.
He thoroughly
covers the
crucial DevOps
aspects of
utilizing

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Service Fabric,
reviews its
interactions
with key cloud-
based services,
and introduces
essential
service
integration
mechanisms such
as messaging
systems and
reactive
systems. Leading

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Microsoft Azure
expert Haishi
Bai shows how
to: Set up your
Service Fabric
development
environment
Program and
deploy Service
Fabric
applications to
a local or a
cloud-based
cluster Compare

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and use stateful
services,
stateless

services, and
the actor model

Design Service
Fabric

applications to
maximize

availability,
reliability, and
scalability

Improve
management

Download Free Azure Service

efficiency via
scripting
Configure
network security
and other
advanced cluster
settings Collect
diagnostic data,
and use Azure
Operational
Management Suite
to interpret it
Integrate
microservices

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Components Build

developed in
parallel Use

containers to
mobilize

applications for
failover,

replication,
scaling, and

load balancing

Streamline

containerization

with Docker in

Linux and

Download Free Azure Service

Windows Build

environments

Orchestrate

containers to

schedule

workloads and

maintain

services at

desired states

Implement proven

design patterns

for common cloud

application

workloads

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Fabric Build

throughput,
latency,
scalability, and
cost

Implement
microservices
starting with
their
architecture and
moving on to
their
deployment,

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manageability,
security, and
monitoring. This
book focuses on
the key
scenarios where
microservices
architecture is
preferred over a
monolithic
architecture.

Building
Microservices
Applications on

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Microsoft Azure
begins with a
survey of
microservices
architecture
compared to
monolithic
architecture and
covers
microservices
implementation
in detail.
You'll see the
key scenarios

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where Fabric Build
microservices
architecture is
preferred over a
monolithic
approach. From
there, you will
explore the
critical
components and
various
deployment
options of
microservices on

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platforms such as Microsoft Azure (public cloud) and Azure Stack (hybrid cloud). This includes in-depth coverage of developing, deploying, and monitoring microservices on containers and orchestrating

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with Azure
Service Fabric
and Azure

Kubernetes
Cluster (AKS) .

This book
includes
practical
experience from
large-scale
enterprise
deployments,
therefore it can
be a quick

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reference Build
solution

Microsoft
architects and
developers to
understand the
critical factors
while designing
a microservices
application.

What You Will
Learn Explore
the use cases of
microservices
and monolithic

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Architecture

Discover the
architecture

patterns to
build scalable,
agile, and
secure

microservices
applications

Develop and
deploy

microservices
using Azure

Service Fabric

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Azure Service

and Azure

Kubernetes

Service Secure

microservices

using the

gateway pattern

See the

deployment

options for

Microservices on

Azure Stack

Implement

database

patterns to

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handle the
complexities
introduced by
microservices

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

Learn Azure in a
Page 68/168

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Month of Build
Lunches, Second
Edition, is a
tutorial on
writing,
deploying, and
running
applications in
Azure. In it,
you'll work
through 21 short
lessons that
give you real-
world

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experience. Each lesson includes a hands-on lab so you can try out and lock in your new skills. Summary You can be incredibly productive with Azure without mastering every feature, function, and service. Learn

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**Azure in a Month
of Lunches,**
Second Edition
gets you up and
running quickly,
teaching you the
most important
concepts and
tasks in 21
practical bite-
sized lessons.
As you explore
the examples,
exercises, and

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labs, you'll
pick up valuable
skills

immediately and
take your first
steps to Azure
mastery! This
fully revised
new edition
covers core
changes to the
Azure UI, new
Azure features,
Azure

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Containers, and
the upgraded
Azure Kubernetes
Service.

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About the
technology

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Microsoft Azure
is vast and
powerful,
offering virtual
servers,
application
templates, and
prebuilt
services for
everything from
data storage to
AI. To navigate
it all, you need
a trustworthy

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guide. In this
book, Microsoft
engineer and
Azure trainer
Iain Foulds
focuses on core
skills for
creating cloud-
based
applications.
About the book
Learn Azure in a
Month of
Lunches, Second

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Fabric Build Edition, is a tutorial on writing, deploying, and running applications in Azure. In it, you'll work through 21 short lessons that give you real-world experience. Each lesson includes

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a hands-on lab
so you can try
out and lock in
your new skills.

What's inside
Understanding
Azure beyond
point-and-click
Securing
applications and
data Automating
your environment
Azure services
for machine

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learning, Build
containers, and
more About the
reader This book
is for readers
who can write
and deploy
simple web or
client/server
applications.
About the author
Iain Foulds is
an engineer and
senior content

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Microsoft. Table
of Contents PART

1 - AZURE CORE
SERVICES 1

Before you begin

2 Creating a
virtual machine

3 Azure Web Apps

4 Introduction
to Azure Storage

5 Azure

Networking

basics PART 2 -

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HIGH Fabric Build

AVAILABILITY AND
SCALE 6 Azure

Resource Manager
7 High

availability and
redundancy 8

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applications 9

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that scale 10

Global databases
with Cosmos DB

11 Managing

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Azure Key Vault
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and updates PART
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learning and
artificial
intelligence 18
Azure Automation
19 Azure
containers 20
Azure and the
Internet of
Things 21
Serverless

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Microsoft

Explore powerful
Azure DevOps
solutions to
develop and
deploy your
software faster
and more
efficiently. Key
Features Build
modern microserv
ice-based
systems with

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Azure Build

architecture

Learn to deploy
and manage cloud
services and
virtual machines

Configure

clusters with
Azure Service

Fabric for

deployment Book

Description This

Learning Path

helps you

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understand
microservices
architecture and
leverage various
services of
Microsoft Azure
Service Fabric
to build,
deploy, and
maintain highly
scalable
enterprise-grade
applications.
You will learn

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Fabric Build an appropriate Azure backend structure for your solutions and work with its toolkit and managed apps to share your solutions with its service catalog. As you progress through the Learning

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Path, you will study Azure Cloud Services, Azure-managed Kubernetes, and Azure Container Services deployment techniques. To apply all that you've understood, you will build an end-to-end Azure

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system in
scalable,
decoupled tiers
for an
industrial
bakery with
three business
domains. Toward
the end of this
Learning Path,
you will build
another scalable
architecture
using Azure

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Fabric Bus

topics to send
orders between
decoupled
business domains
with scalable
worker roles
processing these
orders. By the
end of this
Learning Path,
you will be
comfortable in
using

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development, deployment, and maintenance processes to build robust cloud solutions on Azure. This Learning Path includes content from the following Packt products: Learn Microsoft Azure by Mohamed Wali

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Implementing
Azure Solutions
- Second Edition

by Florian
Klaffenbach,
Oliver

Michalski,
Markus Klein
Microservices
with Azure by

Namit Tanasseri
and Rahul Rai
What you will
learn Study

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various Azure
Service Fabric
application

programming

models Create

and manage a

Kubernetes

cluster in Azure

Kubernetes

Service Use site-

to-site VPN and

ExpressRoute

connections in

your environment

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Design an Azure
IoT app and
learn to operate
it in various
scenarios

Implement a
hybrid Azure
design using
Azure Stack

Build Azure SQL
databases with
Code First
Migrations

Integrate client

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Applications Build

with Web API and
SignalR on Azure

Implement the
Azure Active
Directory (Azure
AD) across the
entire system

Who this book is
for If you are
an IT system
architect,
network admin,
or a DevOps

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Fabric Build
Microsoft
engineer who
wants to
implement Azure
solutions for
your
organization,
this Learning
Path is for you.
Basic knowledge
of the Azure
Cloud platform
will be
beneficial.

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Architect enterprise-grade, Microsoft-based solutions using

Microsoft Azure Service Fabric.

About This Book

Explore

architectural

patterns for

building modern

day Microservice-

based systems

Learn about

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Microsoft

Service Fabric
as a platform to
host distributed
Microservices

Discover
multiple options
for hosting
Microservices on
heterogeneous,
cross-platform
environments

Learn to
configure Azure

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Fabric
clusters for
enterprise-grade
service

Who
This Book Is For
The book is
aimed at IT
architects,
system
administrators,
and DevOps
engineers who
have a basic

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knowledge of the
Microsoft Azure
platform and are
working on, or
are curious
about, the
concepts of
Microservices
and Microservice
architecture.

What You Will
Learn Understand
the basics of
Microservices

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and how Build

Microsoft Azure
fits into the

equation Master

Azure Service

Fabric

architecture and

services Explore

Azure Service

Fabric

application

programming

models

Comprehensive

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study of various
architecture
patterns for
building
enterprise-grade
Microservices
Manage and
deploy
Microservices on
Azure Service
Fabric An
insight into the
future of
Microservices

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with container
and serverless
computing In
Detail Microsoft
Azure is rapidly
evolving and is
widely used as a
platform on
which you can
build
Microservices
that can be
deployed on-
premise and on-

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cloud Fabric Build

heterogeneous
environments

through

Microsoft Azure
Service Fabric.

This book will
help you

understand the
concepts of

Microservice
application

architecture and
build highly

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maintainable and
scalable
enterprise-grade
applications
using the
various services
in Microsoft
Azure Service
Fabric. We will
begin by
understanding
the intricacies
of the
Microservices

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Architecture and
its advantages
over the

monolithic

architecture and
Service Oriented
Architecture
(SOA)

principles. We
will present
various

scenarios where
Microservices
should be used

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and walk you through the architectures of Microservice-based

applications.

Next, you will take an in-depth look at

Microsoft Azure Service Fabric, which is the best-in-class platform for

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Building

Microservices.

You will explore

how to develop

and deploy

sample

applications on

Microsoft Azure

Service Fabric

to gain a

thorough

understanding of

it. Building Mic

roservice-based

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Application Build is
complicated.

Therefore, we
will take you
through several
design patterns
that solve the
various
challenges
associated with
realizing the
Microservices
architecture in
enterprise

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Each pattern will be clearly illustrated with examples that you can keep referring to when designing applications. Finally, you will be introduced to advanced topics such as

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Fabricless

computing and
DevOps using

Service Fabric,

to help you

undertake your

next venture

with confidence.

Style and

approach This

book introduces

its readers to

the concept of

Microservices

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and Microsoft

Azure Service

Fabric as a

distributed

platform to host

enterprise-grade

Microservices.

It then

addresses common

architectural

challenges

associated with

the Microservice

architecture,

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using proven
architectural
patterns.

In the race to
compete in
today's fast-
moving markets,
large
enterprises are
busy adopting
new technologies
for creating new
products,

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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

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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

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Fabric Build
Microsoft
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

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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

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Report explores:
Key cultural and
organizational
changes for
developing
business
capabilities
through cross-
functional
product teams A
platform for
integrating
applications,
data sources,

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business Build

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

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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

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Architecture

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

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business Build

platform to
serve every
audience in your
organization.

Kubernetes
radically
changes the way
applications are
built and
deployed in the
cloud. Since its
introduction in

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2014, this
Fabric Build
container
Microsoft
orchestrator has
become one of
the largest and
most popular
open source
projects in the
world. The
updated edition
of this
practical book
shows developers
and ops

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personnel how
Kubernetes and
container
technology can
help you achieve
new levels of
velocity,
agility,
reliability, and
efficiency.

Kelsey
Hightower,
Brendan Burns,
and Joe

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Bedar—who've
worked on
Kubernetes at
Google and
beyond—explain
how this system
fits into the
lifecycle of a
distributed
application.
You'll learn how
to use tools and
APIs to automate
scalable

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distributed
systems, whether
it's for online
services,
machine learning
applications, or
a cluster of
Raspberry Pi
computers.

Create a simple
cluster to learn
how Kubernetes
works Dive into
the details of

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Deploying an
application
using Kubernetes

Learn

specialized
objects in
Kubernetes, such
as DaemonSets,
jobs,
ConfigMaps, and
secrets Explore
deployments that
tie together the
lifecycle of a

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complete Build
application Get
practical
examples of how
to develop and
deploy real-
world
applications in
Kubernetes

Implement
microservices
starting with
their

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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
monolithic

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Architecture.

Building

Microservices

Applications on

Microsoft Azure

begins with a

survey of

microservices

architecture

compared to

monolithic

architecture and

covers

microservices

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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
components and

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various Build

deployment

options of

microservices on

platforms such

as Microsoft

Azure (public

cloud) and Azure

Stack (hybrid

cloud). This

includes in-

depth coverage

of developing,

deploying, and

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monitoring
microservices on
containers and
orchestrating
with Azure
Service Fabric
and Azure
Kubernetes
Cluster (AKS) .

This book
includes
practical
experience from
large-scale

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enterprise
Microsoft
deployments,
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

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Learn Explore
the use cases of
microservices
and monolithic
architecture
Discover the
architecture
patterns to
build scalable,
agile, and
secure
microservices
applications
Develop and

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deploy Build

microservices

using Azure

Service Fabric

and Azure

Kubernetes

Service Secure

microservices

using the

gateway pattern

See the

deployment

options for

Microservices on

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Azure Stack

Implement
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-

Download Free Azure Service Fabric Build scale deployments.

Build
intelligent and
smart
conversational
interfaces using
Microsoft Bot
Framework About
This Book
Develop various
real-world
intelligent bots

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from scratch
using Microsoft
Bot Framework
Integrate your
bots with most
popular
conversation
platforms such
as Skype, Slack,
and Facebook
Messenger Flaunt
your bot
building skills
in your

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Organization by
thoroughly
understanding
and implementing
the bot
development
concepts such as
messages (rich
text and
pictures),
dialogs, and
third-party
authentication
and calling Who

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This Book Is For

This book is for
Microsoft
developers who

are keen on

building

powerful

services with

great and

interactive bot
interface.

Experience with

C# is needed.

What You Will

Learn Set up a

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development
environment and
install all the
required
software to get
started
programming a
bot Publish a
bot to Slack,
Skype, and the
Facebook
Messenger
platform Develop
a fully

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functional Build

weather bot that communicates the current weather in a given city
Help your bot identify the intent of a text with the help of LUIS in order to make decisions
Integrate an API into your bot development

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Build an IVR solution. Explore the concept of MicroServices and see how MicroServices can be used in bot development. Develop an IoT project, deploy it, and connect it to a bot. In Detail Bots help users to use the

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language as a UI
and interact
with the
applications
from any
platform. This
book teaches you
how to develop
real-world bots
using Microsoft
Bot Framework.
The book starts
with setting up
the Microsoft

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Bot Framework
development
environment and
emulator, and
moves on to
building the
first bot using
Connector and
Builder SDK.
Explore how to
register,
connect, test,
and publish your
bot to the

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Slack, Skype,
and Facebook
Messenger
platforms.

Throughout this
book, you will
build different
types of bots
from simple to
complex, such as
a weather bot, a
natural speech
and intent
processing bot,

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an Interactive
Voice Response
(IVR) bot for a
bank, a facial
expression
recognition bot,
and more from
scratch. These
bots were
designed and
developed to
teach you
concepts such as
text detection,

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implementing
LUIS dialogs,
Cortana

Intelligence
Services, third-
party
authentication,
Rich Text
format, Bot
State Service,
and

microServices so
you can practice
working with the

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standard Build

development

tools such as

Visual Studio,

Bot Emulator,

and Azure. Style

and approach

This step-by-

step guide takes

a learn-while-

doing approach,

delivering the

practical

knowledge and

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experience you need to design and build real-world Bots. The concepts come to you on an as-needed basis while developing a bot so you increase your programming knowledge and experience at the same time.

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Book + Content
Update Program

“Beyond just describing the basics, this book dives into best practices every aspiring microservices developer or architect should know.” –Foreword by Corey

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Sanders, Partner
Director of
Program

Management,
Azure Microservi
ce-based
applications
enable
unprecedented
agility and ease
of management,
and Docker
containers are
ideal for

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building them.

Microsoft Azure offers all the foundational technology and higher-level services you need to develop and run any microservices application.

Microservices with Docker on Microsoft Azure

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Brings together essential knowledge for creating these applications from the ground up, or incrementally deconstructing monolithic applications over time. The authors draw on their pioneering

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experience Build

helping to
develop Azure's
microservices
features and
collaborating
with Microsoft
product teams
who've relied on
microservices
architectures
for years. They
illuminate the
benefits and

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challenges of
microservices
development and
share best
practices all
developers and
architects
should know.
You'll gain
hands-on
expertise
through a
detailed sample
application,

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downloadable at
[github.com/flakio
o/flakio.github.
io](https://github.com/flakio/flakio.github.io). Step by
step, you'll
walk through
working with
services written
in Node.js, Go,
and ASP.NET 5,
using diverse
data stores
(mysql,
elasticsearch,

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block storage) .

The authors
guide you
through using
Docker Hub as a
service
registry, and
Microsoft Azure
Container
service for
cluster
management and
service
orchestration.

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Coverage Build

includes:

Recognizing how

microservices

architectures

are different,

and when they

make sense

Understanding

Docker

containers in

the context of

microservices

architectures

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Building, Build
pulling, and
layering Docker
images Working
with Docker
volumes,
containers,
images, tags,
and logs Using
Docker Swarm,
Docker Compose,
and Docker
Networks
Creating Docker

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hosts using the
Azure portal,
Azure Resource
Manager, the
command line,
docker-machine,
or locally via
Docker toolbox
Establishing
development and
DevOps
environments to
support
microservices

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Applications Build

Making the most
of Docker's

continuous

delivery options

Using Azure's

cluster and

container

orchestration

capabilities to

operate and

scale

containerized

microservices

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Applications Build

with maximum
resilience

Monitoring
microservices
applications

with Azure
Diagnostics,
Visual Studio

Application
Insights, and
Microsoft

Operations
Management Suite

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Developing
Fabric Build

microservices
Microsoft
applications

faster and more
effectively with
Azure Service

Fabric An
extensive sample
application

demonstrating
the

microservices
concepts

discussed

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throughout the
book is
available online

In addition,
this book is
part of
InformIT's
exciting new
Content Update
Program, which
provides content
updates for
major technology
improvements! As

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significant
updates are made
to Docker and
Azure, sections
of this book
will be updated
or new sections
will be added to
match the
updates to the
technologies. As
updates become
available, they
will be

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