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*Build
microservices
and container
solutions using
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Fabric and Azure*
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~~Tutorial 1~~

~~Introduction~~

Develop

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App with Service

Fabric and

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with Microsoft

Service Fabric

Getting Started

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with Microsoft

Service Fabric

Azure Service

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Tutorial 2 -

Windows

Installation

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~~Microsoft Azure~~

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Overview of

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Azure Friday at

Build 2018

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**Creating and
Deploying
Stateless**

**Service With
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to Azure Intro
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Fabric Service

Fabric Mesh,

Container

Instances and

more Azure

Compute Options

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Fabric Mesh

preview | Azure
Friday


*Kubernetes in 5
mins Monolithic
vs Microservice
Architecture*

*Debate What is
Kubernetes ~~REST~~
~~API~~ concepts and
examples ★ What
are*

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microservices?
Service Fabric
Applications in
Visual Studio
2019 | Microsoft
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—  Introduction
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~~to highly
scalable web api
using Service~~

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or is it? —~~

~~Daniel Marbach~~

~~0031 - [?]~~

Beginners guide
to setting up a
local

development

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Service Fabric
cluster

*AzureTalk: Azure
Service Fabric
Demo Session*

*Understanding
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*Service Fabric:
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Development~~

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S208 -

Microservices

with .NET on

Service Fabric -

Sudhanva Huruli,

Vaclav Turecek

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Fabric Mesh

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

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Application Build life
cycle
management.

Reliably scale
and orchestrate
containers and
microservices.

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

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

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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
providing
general...

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Fabric at
Microsoft Build
2018 | Azure
blog ...*

Microsoft Azure
Service Fabric
Architecture.
Service Fabric
is a state-of-
the-art

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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
Kakivaya will
cover the hard

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

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Microsoft

*Microsoft Azure
Service Fabric
Architecture*

For Windows
development, the
Service Fabric
.NET SDK is
integrated with
Visual Studio
and PowerShell.
For Linux
development, the

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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 Fabric Resource Provider is

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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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*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 services in one way or another

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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
Fabric still
relevant in 2020*

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The Service Build

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

*Create an Azure
Service Fabric
container
application ...*

The Azure

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Resource Model
(ARM) template
for traditional
Service Fabric
clusters
requires you to
define a cluster
resource
alongside a
number of
supporting
resources, all
of which must be
"wired up"

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correctly (upon deployment and throughout the lifecycle of the cluster) in order for the cluster and your services to function properly.

*Service Fabric
managed clusters
(preview) -*

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The Service

Fabric Tools are
part of the
Azure

Development
workload in
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2017 and 2019.

Enable this
workload as part
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Studio

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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 SDK

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*Set up a Windows
development
environment -
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...

Service Fabric
as a
microservices
platform. Azure
Service Fabric
emerged when
Microsoft
transitioned
from delivering

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boxed products,
which were
typically
monolithic, to
delivering
services. The
experience of
building and
operating large
services, like
Azure SQL
Database and
Azure Cosmos DB,
shaped Service

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Fabric. The
platform evolved
over time as
more services
adopted it.

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Fabric - docs.mi
crosoft.com*

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Fabric
documentation.
Azure Service
Fabric is a

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

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Microsoft Docs
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Microsoft Build

; Community

Events ... The

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Fabric 7.2

release is

loaded with new

features,

supportability,

and performance

enhancements.

1,001. Service

Fabric Community

Q&A call 49

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PM. Service
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Community
Azure Service
Fabric
simplifies
developing*

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

Service Fabric

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on Azure Build
Service Fabric
Microsoft
gives you
deployment
options.

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Service Fabric |
Microsoft Azure
Description
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is a state-of-
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distributed*

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allows
Microsoft
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easily build and
manage Internet
scale services
such as Azure
DB, Azure
Document DB, and
Bing Cortana.

*Microsoft Azure
Service Fabric
Architecture |*

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Build 2015 . . .

Published date:

21 May, 2018.

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Fabric is a

microservice

platform for

business

critical

applications.

Today, we are

happy to share

Azure Service

Fabric Mesh,

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

Service Fabric

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Mesh supports
both Windows and
Linux containers
allowing you to
develop with any
programming
language and
framework of
your choice.

*Azure Service
Fabric | Service
Fabric Mesh |
Azure updates*

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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 microservices and containers.

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To build and run
Azure Service
Fabric

applications on
your Windows
development
machine, install
the Service
Fabric runtime,
SDK, and tools.

*Microsoft Azure
Service Fabric
Standalone*

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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

Azure regions

along with

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

*Azure Service
Fabric 7.2
Release -*

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*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
container.
Behind the

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

*Service Fabric
Nodes patching
and Container*

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patching ...
Build

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

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easy to package,
deploy, and
manage scalable
and reliable
microservices.
Service Fabric
represents the
next-generation
middleware
platform for
building and
managing these e
nterprise-class,
Tier-1 cloud ...

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Build, operate,
and orchestrate
scalable
microservices
applications in
the cloud This
book combines a
comprehensive
guide to success
with Microsoft
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Fabric and a
practical
catalog of
design patterns
and best
practices for
microservices
design,
implementation,
and operation.
Haishi Bai
brings together
all the
information

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

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interactions Build
with key cloud-
based services,
and introduces
essential
service
integration
mechanisms such
as messaging
systems and
reactive
systems. Leading
Microsoft Azure
expert Haishi

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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
and use stateful
services,

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stateless
services, and
the actor model
Design Service
Fabric
applications to
maximize
availability,
reliability, and
scalability
Improve
management
efficiency via
scripting

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Configure
network security
and other
advanced cluster
settings Collect
diagnostic data,
and use Azure
Operational
Management Suite
to interpret it
Integrate
microservices
components
developed in

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parallel Use
containers to
mobilize

applications for
failover,
replication,
scaling, and
load balancing

Streamline
containerization
with Docker in
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Windows
environments

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Orchestrate
containers to
schedule

workloads and
maintain

services at
desired states

Implement proven
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for common cloud
application

workloads

Balance

throughput,

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latency, Build
scalability, and
Microsoft
cost

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

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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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begins with a

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survey of
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architecture
compared to
monolithic
architecture and
covers
microservices
implementation
in detail.
You'll see the
key scenarios
where
microservices

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Architecture is preferred over a monolithic approach. From there, you will explore the critical components and various deployment options of microservices on platforms such as Microsoft

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Azure (public cloud) and Azure Stack (hybrid cloud). This includes in-depth coverage of developing, deploying, and monitoring microservices on containers and orchestrating with Azure Service Fabric

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includes
practical
experience from
large-scale
enterprise
deployments,
therefore it can
be a quick
reference for
solution

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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
architecture
Discover the

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patterns to
build scalable,
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secure
microservices
applications
Develop and
deploy
microservices
using Azure
Service Fabric
and Azure
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using the

gateway pattern

See the

deployment

options for

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Azure Stack

Implement

database

patterns to

handle the

complexities

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For Architects
and consultants
who work on
Microsoft Azure
and manage large-
scale
deployments.

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“Beyond just

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describing the
basics, this
book dives into
best practices
every aspiring
microservices
developer or
architect should
know.” –Foreword
by Corey
Sanders, Partner
Director of
Program
Management,

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Azure Microservice-based applications

enable

unprecedented agility and ease of management,

and Docker

containers are

ideal for

building them.

Microsoft Azure

offers all the

foundational

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technology and
higher-level
services you
need to develop
and run any
microservices
application.

Microservices
with Docker on
Microsoft Azure
brings together
essential
knowledge for
creating these

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Applications Build

from the ground
up, or

incrementally
deconstructing
monolithic
applications
over time. The
authors draw on
their pioneering
experience
helping to
develop Azure's
microservices

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features and
collaborating
with Microsoft
product teams
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io](https://github.com/flakio/flakio.github.io). Step by

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step, you'll
walk through
working with
services written
in Node.js, Go,
and ASP.NET 5,
using diverse
data stores
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elasticsearch,
block storage).
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service
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Coverage
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architectures
are different,
and when they
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Understanding
Docker

containers in
the context of
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architectures

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pulling, and
layering Docker
images Working

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with Docker
volumes,
containers,
images, tags,
and logs Using
Docker Swarm,
Docker Compose,
and Docker
Networks
Creating Docker
hosts using the
Azure portal,
Azure Resource
Manager, the

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command line,
docker-machine,
or locally via
Docker toolbox
Establishing
development and
DevOps
environments to
support
microservices
applications
Making the most
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continuous

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orchestration

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applications

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Application

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effectively with

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Fabric An

extensive sample

application

demonstrating

the

microservices

concepts

discussed

throughout the

book is

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part of
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exciting new
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improvements! As
significant
updates are made
to Docker and
Azure, sections

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will be added to
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understand

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

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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 Path, you will

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

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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 Service Bus

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topics to send
orders between
decoupled
business domains
with scalable
worker roles
processing these
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you will be
comfortable in
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deployment, and
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processes to
build robust
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with Web API and
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entire system

Who this book is
for If you are
an IT system
architect,

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or a DevOps
engineer who

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

Implement

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microservices
starting with
their

architecture and
moving on to
their

deployment,
manageability,
security, and
monitoring. This
book focuses on
the key
scenarios where
microservices

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covers
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in detail.

You'll see the
key scenarios
where
microservices
architecture is
preferred over a
monolithic
approach. From
there, you will

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explore the
critical
components and
various
deployment
options of
microservices on
platforms such
as Microsoft
Azure (public
cloud) and Azure
Stack (hybrid
cloud). This
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depth coverage
of developing,
deploying, and
monitoring
microservices on
containers and
orchestrating
with Azure
Service Fabric
and Azure
Kubernetes
Cluster (AKS).
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includes

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practical Build

experience from
large-scale
enterprise
deployments,
therefore it can
be a quick
reference for
solution
architects and
developers to
understand the
critical factors
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a microservices
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who work on
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scale
deployments.

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lesson includes
a hands-on lab
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out and lock in
your new skills.
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feature,
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most important

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Azure features,
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Azure beyond

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point-and-click
Securing
applications and
data Automating
your environment
Azure services
for machine
learning,
containers, and
more About the
reader This book
is for readers
who can write
and deploy

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simple web or
client/server
applications.

About the author

Iain Foulds is
an engineer and
senior content
developer with
Microsoft. Table
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virtual machine

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AVAILABILITY AND

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Things 21

Serverless
computing

In the race to
compete in
today's fast-
moving markets,
large

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Enterprises are busy adopting new technologies for creating new products, processes, and business models. But one obstacle on the road to digital transformation is placing too much emphasis on technology, and

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not enough on
the types of
processes
technology
enables. What if
different lines
of business
could build
their own
services and
applications—and
decision-making
was distributed
rather than

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Centralized?

This report
explores the
concept of a
digital business
platform as a
way of
empowering
individual
business sectors
to act on data
in real time.
Much innovation
in a digital

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Enterprise will increasingly happen at the edge, whether it involves business users (from marketers to data scientists) or IoT devices. To facilitate the process, your core IT team can provide these

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sectors Build the
digital tools
they need to
innovate
quickly. This
report explores:
Key cultural and
organizational
changes for
developing
business
capabilities
through cross-
functional

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product teams A
platform for
integrating
applications,
data sources,
business
partners,
clients, mobile
apps, social
networks, and
IoT devices
Creating
internal API
programs for

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building
innovative edge
services in low-
code or no-code
environments
Tools including
Integration
Platform as a
Service,
Application
Platform as a
Service, and
Integration
Software as a

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Service The
challenge of
integrating
microservices
and serverless
architectures
Event-driven
architectures
for processing
and reacting to
events in real
time You'll also
learn about a
complete

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Fabric Build
pervasive
integration
Microsoft
solution as a
core component
of a digital
business
platform to
serve every
audience in your
organization.

Architect enterp
rise-grade, Micr
oservice-based

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Solutions Build
Microsoft Azure
Service Fabric.

About This Book

Explore

architectural

patterns for

building modern

day Microservice-

based systems

Learn about

Microsoft

Service Fabric

as a platform to

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host distributed
Microservices
Discover

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

Learn to
configure Azure
Service Fabric
clusters for
enterprise-grade

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deployments Who
This Book Is For

The book is
aimed at IT
architects,
system
administrators,
and DevOps
engineers who
have a basic
knowledge of the
Microsoft Azure
platform and are

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working on, or
are curious
about, the
concepts of
Microservices
and Microservice
architecture.
What You Will
Learn Understand
the basics of
Microservices
and how
Microsoft Azure
fits into the

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Equation Master
Azure Service
Fabric

architecture and
services Explore

Azure Service
Fabric

application
programming
models

Comprehensive
study of various
architecture
patterns for

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building
enterprise-grade
Microservices
Manage and
deploy
Microservices on
Azure Service
Fabric An
insight into the
future of
Microservices
with containers
and serverless
computing In

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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-
cloud
heterogeneous
environments

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through Build
Microsoft Azure
Service Fabric.

This book will
help you
understand the
concepts of
Microservice
application
architecture and
build highly
maintainable and
scalable
enterprise-grade

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applications
using the
various services
in Microsoft
Azure Service
Fabric. We will
begin by
understanding
the intricacies
of the
Microservices
architecture and
its advantages
over the

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monolithic
architecture and
Service Oriented
Architecture
(SOA)

principles. We
will present
various
scenarios where
Microservices
should be used
and walk you
through the
architectures of

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Microservice-
based
applications.

Next, you will
take an in-depth
look at

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

You will explore

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how to develop
and deploy
sample

applications on
Microsoft Azure
Service Fabric
to gain a
thorough
understanding of
it. Building Mic
roservice-based
application is
complicated.

Therefore, we

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will take you through several design patterns that solve the various challenges associated with realizing the Microservices architecture in enterprise applications. Each pattern will be clearly

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illustrated with
examples that
you can keep
referring to
when designing
applications.
Finally, you
will be
introduced to
advanced topics
such as
Serverless
computing and
DevOps using

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Service Fabric,
to help you
undertake your
next venture
with confidence.

Style and
approach This
book introduces
its readers to
the concept of
Microservices
and Microsoft
Azure Service
Fabric as a

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distributed
platform to host
enterprise-grade
Microservices.

It then
addresses common
architectural
challenges
associated with
the Microservice
architecture,
using proven
architectural
patterns.

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Kubernetes
radically
changes the way
applications are
built and
deployed in the
cloud. Since its
introduction in
2014, this
container
orchestrator has
become one of
the largest and

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most popular
open source
projects in the
world. The
updated edition
of this
practical book
shows developers
and ops
personnel how
Kubernetes and
container
technology can
help you achieve

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new levels of
velocity,
agility,
reliability, and
efficiency.

Kelsey
Hightower,
Brendan Burns,
and Joe
Beda—who've
worked on
Kubernetes at
Google and
beyond—explain

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how this system
fits into the
lifecycle of a
distributed
application.

You'll learn how
to use tools and
APIs to automate
scalable
distributed
systems, whether
it's for online
services,
machine learning

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Fabric Build, or
a cluster of
Raspberry Pi
computers.

Create a simple
cluster to learn
how Kubernetes
works Dive into
the details of
deploying an
application
using Kubernetes
Learn
specialized

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objects in
Kubernetes, such
as DaemonSets,
jobs,
ConfigMaps, and
secrets Explore
deployments that
tie together the
lifecycle of a
complete
application Get
practical
examples of how
to develop and

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Fabric Build
deploy real-
world
Microsoft
applications in
Kubernetes

Build
intelligent and
smart
conversational
interfaces using
Microsoft Bot
Framework About
This Book
Develop various

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real-world
intelligent bots
from scratch
using Microsoft
Bot Framework
Integrate your
bots with most
popular
conversation
platforms such
as Skype, Slack,
and Facebook
Messenger Flaunt
your bot

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building skills
in your
organization by
thoroughly
understanding
and implementing
the bot
development
concepts such as
messages (rich
text and
pictures),
dialogs, and
third-party

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Authentication
and calling Who
This Book Is For
This book is for
developers who
are keen on
building
powerful
services with
great and
interactive bot
interface.
Experience with
C# is needed.

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What You Will

Learn Set up a
development

environment and
install all the
required

software to get
started

programming a

bot Publish a

bot to Slack,

Skype, and the

Facebook

Messenger

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platform Develop
a fully
functional

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

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into your bot
development

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

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Detail Bots help users to use the 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

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with setting up the Microsoft 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,

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and publish your
bot to the
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

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and intent
processing bot,
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

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Concepts such as text detection, implementing LUIS dialogs, Cortana Intelligence Services, third-party authentication, Rich Text format, Bot State Service, and microServices so

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you can practice
working with the
standard

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

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practical
knowledge and
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

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experience Build
the same time.

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