

# The Application Journey To Cloud











#### **TECHNOLOGY IS THE CENTER OF INTELLIGENT BUSINESS**

But where do you want to spend your time?





CMC TECHNOLOGY & SOLUTION Aspire to Inspire the Digital World



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### A turn-key platform for Application Modernization



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## Refactoring with container technology Faster application deployment with integrated CD/CD tools and orchestration

- Containers support all frameworks and technology stacks across clouds and on-premises
- No OS overhead means improved packing density and more resource efficiency
- Faster application deployment with integrated CD/CD tools and orchestration

![](_page_5_Figure_5.jpeg)

![](_page_5_Picture_7.jpeg)

### Rearchitecting with microservices More agile, scalable and resilient applications

Individual services can be upgraded, changed or taken down without impacting the application

Developers work on individual services, which are smaller, easier to manage and understand

If individual services should fail, the application will continue to work without interruption

![](_page_6_Figure_5.jpeg)

![](_page_6_Figure_7.jpeg)

![](_page_6_Figure_8.jpeg)

# Future-proofing applications with serverless Adding new capabilities to existing applications

- Existing code and functionality is left as-is and moved to managed cloud services
- New capabilities are added incrementally using serverless functions triggered by events

![](_page_7_Figure_3.jpeg)

![](_page_7_Figure_5.jpeg)

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### Cloud application development The best cloud for developers

Microsoft Azure is a flexible foundation for all applications – our full-stack cloud application platform covers user experience, backend, data, intelligence and DevOps

![](_page_8_Picture_2.jpeg)

Multi-channel user experiences

![](_page_8_Picture_4.jpeg)

Open and hybrid cloud backends

![](_page_8_Picture_7.jpeg)

Data-driven intelligence

![](_page_8_Picture_9.jpeg)

DevOps built-in

![](_page_8_Picture_11.jpeg)

# Deliver applications faster and more reliably

Plan + Track

Plan

Build

### Development

#### **Code**, **Build** + **Test**

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![](_page_9_Figure_5.jpeg)

#### **Operate + Monitor**

![](_page_9_Picture_7.jpeg)

![](_page_9_Picture_8.jpeg)

![](_page_9_Picture_9.jpeg)

### Deliver applications faster and more reliably

![](_page_10_Figure_1.jpeg)

### Faster delivery to production • More business value

![](_page_10_Picture_4.jpeg)

![](_page_10_Figure_5.jpeg)

# Our journey to DevOps

![](_page_11_Picture_1.jpeg)

#### People

PM, Dev, Test roles Personal offices Deep hierarchy 20+ team sizes

PM & engineering roles only Team rooms Flattened hierarchy 8-12 team sizes

![](_page_11_Picture_8.jpeg)

#### Process

4-6 month milestones Features shipped once a year Success is install numbers Long planning cycles Secret roadmap

3-week Sprints Features shipped every Sprint User satisfaction determines success Continuous planning & learning Publicly shared roadmap

![](_page_11_Picture_12.jpeg)

#### Tools

100 page spec documents Proprietary SC, TFSVC Feature branches Proprietary toolchain

![](_page_11_Picture_15.jpeg)

Mockups in PPT Git Everyone in master **Azure DevOps** 

![](_page_11_Picture_17.jpeg)

![](_page_12_Figure_0.jpeg)

![](_page_12_Picture_2.jpeg)

# Our top 3 learnings

- 1. transition functionality to off-the-shelf solutions where possible.
- No cloud hosting model (laaS, PaaS, SaaS) should be taken off the table too early. 2.
- Move custom applications in stages: 3.
  - Move simple workloads directly to PaaS: web sites, static portals, standard three-tier applications  $\bullet$
  - Migrate complex solutions to laaS first and gradually modernize later to unlock immediate benefits
  - Keep legacy/undocumented code as-is and surround it with serverless functions to add features

**Download the eBook** https://azure.microsoft.com/resources/inside-microsoft-cloud-migration-journey/

It's a great opportunity to 'clean house' - retire applications that are no longer used or consolidate and

![](_page_13_Picture_14.jpeg)

# App Innovation customer stories

![](_page_14_Picture_1.jpeg)

- An Binh Fund (ABF) needs to build applications which help them manage investment products and create a trading online platform for their customers
- Microsoft Azure Platform (PaaS) helps ABF build the applications more quickly and stable. In addition, ABF completely uses infrastructure on Azure (IaaS). This help them really focus on business development.

![](_page_14_Picture_5.jpeg)

- Thanh Thanh Cong Edu builds the website system which is used to update information and register for students but it is frequently overloaded and attacked by outside.
- TTCEdu to refactor their app by using Platform as a service on Azure (Use AppService & Database Service, Auto Scaling, Load-Balancer...)

![](_page_14_Picture_8.jpeg)

# COOP COOP & SOLUTION

# F & S

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