




Building a DEV Practice in the Cloud Era



Presented by Zac Paulson

True|IT



MSP ERP CRM DEV

We Care, We Connect, We Make a Difference ... Together!

About True|IT

WHERE TECH MEETS WORK

True | IT isn't just an IT company. We boost business performance by combining every aspect of technology in a seamless continuum of solutions. That means integrating everything – from foundational hardware to application/process improvement to strategies for growth – so you're free to push relentlessly toward a stronger bottom line.



WARM FUZZIES

Warm. Personable. Comforting.

LOYALTY

Strategy and a relationship.

KAIZEN

Getting better and better.

Core Values





Our Mission

WARM FUZZIES | LOYALTY | KAIZEN

We Care, We Connect, We Make a Difference... Together!





The Pioneers



WES HENRY
Chief Product Officer



ZAC PAULSON
Chief Executive Officer



OLE GJERDE
Chief Operating Officer



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Today's Discussion

MAIN POINTS

Why Build a DEV Practice

How to Build a DEV Practice

Difference in the Cloud Era

Define Your Strategy

Choose Your Cloud Target

Select Your Tools

Good Business Practices

What True IT Does

Let's Talk




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Why Build a DEV Practice?



Why Build a DEV Practice?

- ✓ Deliver additional value to your clients
 - ✓ Strengthen your position as technology leader to your clients
 - ✓ Make your relationship with your clients “stickier”
 - ✓ Generate additional revenue
 - ✓ Diversify within client base
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How to Build a DEV Practice?



How to Build a DEV Practice

- ✓ Define your practice
- ✓ Hire your team

Sounds easy, right?



Define Your Practice

- **DEV is about building software (writing code)**
- **What are you planning to build?**
 - Custom stand-alone software
 - Apps
 - SaaS
 - ***Integrations / customizations***
 - This is where TrueIT started and had the most success with client acquisition

Hire Your DEV Team

- **Developers come in different levels**
 - Do you want high-level developers or low level developers?
 - *Hard to build good software with only low-level developers*
--- We learned this one the hard way... 😞
- **It's not just about coding**
 - System architects
--- Most important, the rest could be outsourced
 - Business analysts
 - Project managers
 - UI/UX
 - Documentation / training

Hire Your DEV Team

- **DEV leadership**


- DEV leader needs to balance stability vs evolution
 - Stability: Sticking with things that work
 - Evolution: Adopting newer tools and technologies
- DEV leader needs to prevent ideological wars that happen between developers when they start championing their favorite language, frameworks, tools, etc.
- Generally is NOT the same as MSP/VAR Leaders

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What's Different about DEV in the Cloud Era?

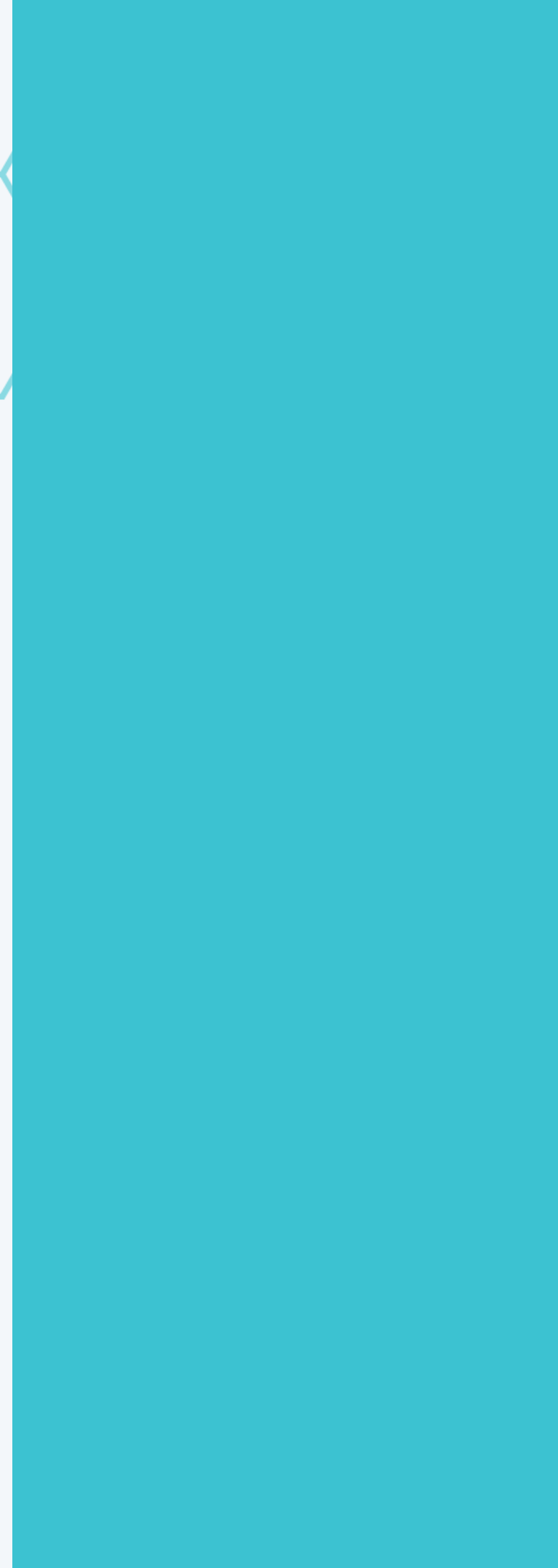


What's Different About DEV in the Cloud Era?

- ✓ Client Expectations
 - ✓ Cloud Hosting Environments
 - ✓ Cloud Tools
 - ✓ SaaS
- 

Client Expectations

- ✓ Always-on
- ✓ Scalable
- ✓ Accessible anywhere
- ✓ Accessible through mobile devices



Cloud Hosting Environments

- **Big cloud environments**

- Azure
- AWS
- Adoption of big cloud is growing rapidly
- Leverage tools and capabilities
- Big cloud offerings are very sophisticated
 - Reliability and scalability that are impossible to produce with mere mortal teams and budgets
 - New features being released all the time
 - It's not possible for in-house teams to keep up with the advancement of the big cloud offerings

- **Private and hybrid cloud**



Cloud Tools

- Source control, testing automation, bug tracking, agile development management, monitoring, and more
- Tools like these are available from the cloud provider or from 3rd party SaaS developers

SaaS


- Existed before cloud, but much more prevalent today
- People being used to SaaS now is a big part of what's causing the change in client expectations

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Define Your Strategy



Define Your Strategy

- ✓ Develop Onto the Platform (deep integration)
 - ✓ Traditional Plus Cloud (shallow integration)
- 



Develop Onto the Platform

- Using all the tools the features directly into your software
- Maximizes the benefits of the cloud platform
- Tightly coupled to the cloud platform means migrating to a different platform is not easy

Development deeply integrated into the platform capabilities, features, and tools.

Traditional Plus Cloud

- Developing on a virtual-machine infrastructure and then leveraging the cloud as your hosting environment
- Less benefits of the cloud platform
- Most similar to DEV practices in the past (easiest to learn)
 - Flexibility to move to different cloud platforms
 - May even be possible to deploy your software to local infrastructure since it's just built on virtual machines


Development loosely integrated into the platform capabilities, features, and tools.

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Choose Your Cloud Target



Choose Your Cloud Target

- ✓ Azure (Microsoft)
 - ✓ AWS (Amazon)
 - ✓ Google
 - ✓ Other cloud: Private / hybrid cloud
- 



Select Your Tools



Select Your Tools


- ✓ Primary tools
 - ✓ IDE, Testing, Continuous Integration, Continuous Delivery, Source Control, ...
 - ✓ Need to standardized!
- ✓ Azure provides amazing tools for cloud development
 - ✓ Source control, Bug tracking, Agile development, Staging, Testing, Continuous development / continuous integration, Release process, Scaling to match workload, ...
- ✓ AWS in conjunction with 3rd party developers offer similar tools

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Good Business Practices

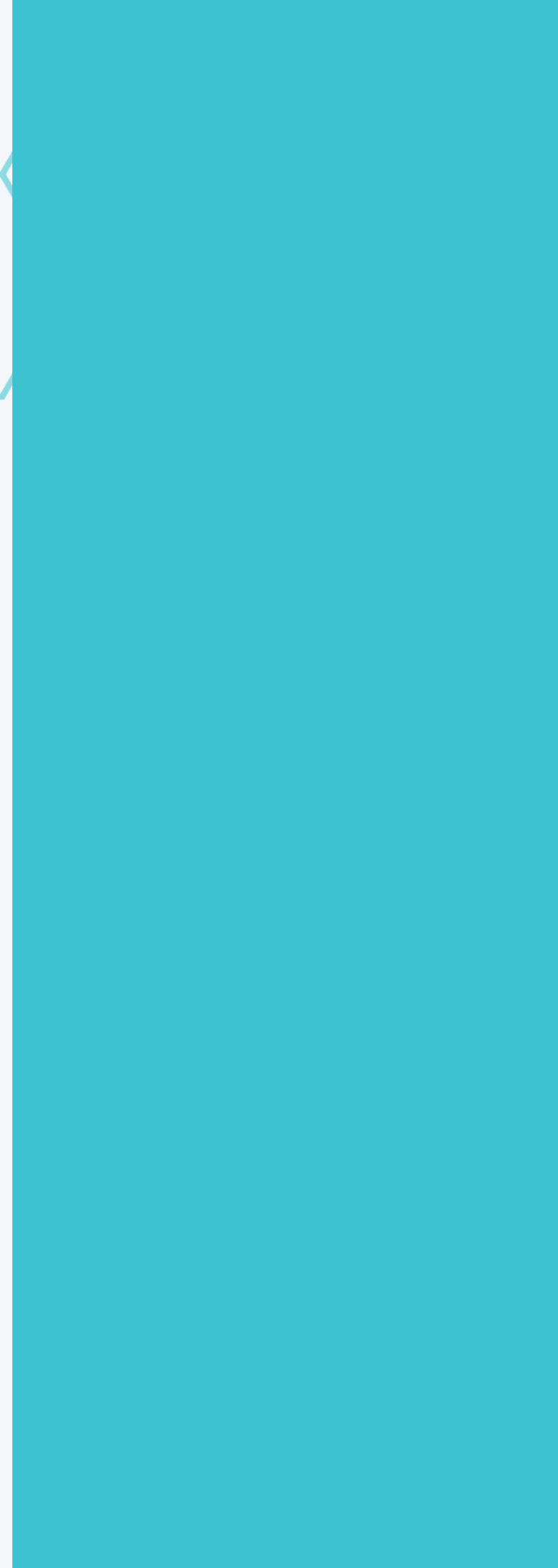


Good Business Practices

- ✓ Processes
 - ✓ Documentation
 - ✓ Standards
 - ✓ Project Management
 - ✓ Sales Marketing
- 

Processes

- You need processes in order to scale
- Processes make the projects consistent
- Processes enable your team to work together



Documentation

- Scope of work defines the project
- It's basically not possible to over document
- ***Contracts, contracts, contracts***

--- make sure your E&O is covered and other liabilities... Anyone can sue you.

Standards

- Language
- Frameworks
- Libraries
- Coding Style
- Testing
- Release Process
- Documentation



Project Managment

- **Project Managers are worth their wait in gold and SHOULD always be billable.**
- Development work is project-based
- Project management is essential to ensuring positive outcomes
 - Keep the project in scope
 - Keep the project within budget
 - Keep the project on time
- Change control and change management are essential to keep the project and client expectations in-line

Sales / Management

- It's a whole new business
 - VERY Different than Infrastructure or MSP
- Case Studies Work Best!
 - Have to back it up with sales and marketing
- “Build it and they will come” definitely doesn't apply to DEV
 - Best to have a project to start the build and GROW into it...

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What Does True IT Do?



What Does True IT Do?

--- Our Secret Sauce

- ✓ Cloud target: Azure
 - ✓ Strategy: Deep integration

 - ✓ Azure Platform
 - ✓ Azure Tools
 - ✓ Technology
- 

Azure Platform

- ❑ Azure web roles
- ❑ Azure ServiceBus
- ❑ Logic Apps
- ❑ Web Jobs
- ❑ Azure functions
- ❑ Azure SQL
- ❑ Azure Active Directory
- ❑ Azure search
- ❑ Azure pipelines
- ❑ DevTest Labs
- ❑ Monitor
- ❑ AppInsights
- ❑ Azure backup
- ❑ Blob storage
- ❑ CDN
- ❑ Load balancer
- ❑ VPN gateway
- ❑ Still have some Azure virtual machines

Azure Tools

- ❑ Visual studio online
 - ❑ Source control
- ❑ Azure DevOps - True IT uses nearly all of Azure DevOps tools
 - ❑ Bug tracking
 - ❑ Agile management
 - ❑ Staging and testing
 - ❑ More
- ❑ Azure scaling

Technology

- ❑ Microsoft .NET framework
- ❑ C#
- ❑ ASP.NET MVC Core
- ❑ React Javascript library
- ❑ Azure SQL or Microsoft SQL Server



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