

Ai Power Cloud

Accelerating
Software
Productivity
through the
Fusion of Cloud,
Low Code and AI



Microsoft Power Cloud - The Fusion of Azure and Power Apps

“Power Cloud” refers to the integrated nature of the Microsoft product set that combines Cloud services with Power Apps customization.

The most compelling argument for the Microsoft products is the holistically integrated suite: Power Apps, Azure, Teams, Sharepoint and Dynamics aren't standalone, isolated technologies but rather can act as component parts of a whole solution building framework.

For example you can create an Azure Function app using .Net and call these using Logic Apps or create Power Apps from within Teams. That's just one simple example of a myriad of possible scenarios where different tools act as interfaces to a single, integrated enterprise Cloud environment.

Modern AI-Powered Application Platform for the Cloud

The key synthesis point is the [interface between Power Apps and Azure](#), various modules and capabilities that link Low Code Development with Azure deployment.

This enables the rapid development of new apps using Low Code and then the deployment of them to the Cloud, where they can take advantage of hyper-scale hosting and the many other features such as adding data connections through Azure services with built-in API integrations.

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What this means is that organizations can harness the Cloud to drive a global scale of Digital Transformation, and do so via a high speed 'drag and drop' simplicity, managed through an end-to-end, integrated DevOps life-cycle, from code development to execution. For example you can utilize GitHub Actions with Power Platform, enabling collaborative source control and Continuous Integration and Delivery (CI/CD).

In short Low Code represents an expansion of the volume of coders, and the Cloud integration the scope of what modules they can build upon. Before it used to only be their local computer resources now it is a vast Cloud estate of global-scale technologies.

With the advent of enterprise AI now being infused into development tools and environments, such as Github Copilot, this combined approach is now being super-charged even further.

Next Generation AI-Driven Software Development with the Microsoft Cloud

Artificial intelligence is revolutionizing the way software is built, tested, and deployed.

By leveraging AI algorithms and machine learning models, developers can automate repetitive tasks, optimize code quality, and accelerate the development lifecycle.

Microsoft's AI tools provide intelligent insights, predictive analytics, and automated recommendations to help developers make informed decisions and write more efficient code.

In the [feature video](#) Scott Guthrie, EVP Cloud + AI, discusses how Microsoft is making AI innovation real for developers today with experiences like GitHub Copilot, Azure OpenAI Service, and the Microsoft Cloud platform and tools you need to produce next-gen, AI-infused applications.

Central to the talk is GitHub Copilot, an AI-powered code completion tool developed by GitHub in collaboration with OpenAI. It aims to assist developers in writing code more efficiently by providing intelligent suggestions and automating repetitive tasks, helping you write code faster by suggesting code snippets and completing code.

Build better software, faster

GitHub Copilot is a powerful tool that enhances developer productivity, reduces coding errors, and accelerates the software development process through its AI-driven code completion capabilities.

Next Generation AI-Driven Software Development with the Microsoft Cloud

In [this talk](#) Damian Brady and Rizel Scarlett dive deeper to show you how to take full advantage of GitHub Copilot alongside Codespaces to increase your inner-loop productivity, digging into how Copilot works to help you understand how best to prompt it to provide the help you want. They also share other tips and best practices to help you more easily maintain legacy codebases, not just how to create new code blazingly fast.

All In One Platform

This [case study video](#) shares General Motors story of improving developer productivity through the use of GitHub Copilot, Dev Box, and Azure Deployment Environments.

Their strategic context is the same for all enterprises today: To stay competitive they need to pioneer a portfolio of new product innovations, and to achieve this they need to on-board and make productive new developers quickly.

Microsoft's Developer Cloud provides them the all-in-one solution needed to support this process. GM has 400+ developers now using Copilot, where it generates sample code that 'gets them 98% of the way there', freeing them up to focus on the key quality innovations.

Dev Box enables them to fast-track new developers so they are ready to start coding within a day. Each can be configured with the right permutation of tools needed for a project, and developers can be assigned multiple Dev Boxes if their work requires it. Azure Deployment then enables them to easily spin up test environments once they are ready to progress their code through to production.

Introducing a New Era of AI-Generated Low-code App Development with Power Platform

In today's fast-paced digital world, the demand for custom applications is higher than ever.

Businesses are constantly seeking ways to streamline processes, enhance productivity, and deliver exceptional user experiences.

Traditional app development methods often involve lengthy coding processes that can be time-consuming and costly. However, with the emergence of AI-generated low-code app development platforms like Microsoft's Power Platform, a new era of app creation has dawned.

In the feature video learn from Sangya Singh (Vice President, Power Automate) how Power Platform is reinventing Ford's software development with AI-powered no-code development, how Copilot is further democratizing development and enabling people to create innovative solutions through natural language.

As Charles Lamanna, Corporate Vice President, Business Applications & Platforms, [wrote in March 2023](#), Microsoft Power Platform is reinventing software development with AI-powered no-code development.

Charles Lamanna [delivered a presentation](#) on the topic of *"The Future of App Development with the Microsoft Power Platform"*.

He explained how low-code platforms enable users to create applications with minimal coding knowledge, using visual interfaces and pre-built components to quickly assemble applications, reducing the reliance on traditional software development processes, and how AI capabilities can be integrated into low-code development environments, enabling users to leverage advanced analytics, natural language processing, and machine learning algorithms.

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Lamanna introduced the concept of the Copilot Revolution, where AI can act as a virtual assistant, providing suggestions, code snippets, and best practices to developers as they build applications. This revolutionizes the development process by enhancing productivity, reducing errors, and enabling developers to focus on higher-value tasks.

Power Platform harnesses the power of AI to automate various aspects of app development, making it accessible to a broader audience, including citizen developers and business users.

- **Accelerated Development:** AI-powered tools in Power Platform enable rapid app prototyping and deployment, reducing time-to-market significantly.
- **Enhanced User Experience:** AI algorithms can analyze user behavior and preferences to create personalized app experiences that drive engagement.
- **Cost-Effective Solutions:** By minimizing the need for extensive coding, AI-generated low-code apps can be developed at a fraction of the cost of traditional methods.
- **Scalability and Flexibility:** Power Platform's AI capabilities allow apps to scale seamlessly as business requirements evolve, ensuring long-term viability.

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Getting Started

- **Explore AI Features:** Familiarize yourself with the AI tools available in Power Platform, such as AI Builder and Azure Cognitive Services.
- **Identify Use Cases:** Determine areas within your organization where AI-generated low-code apps can drive innovation and efficiency.
- **Engage Citizen Developers:** Empower non-technical users to participate in app development using intuitive low-code interfaces.
- **Iterate and Improve:** Continuously refine your AI-generated apps based on user feedback and performance metrics to optimize results.

The Future of App Development

As AI continues to advance, the possibilities for low-code app development are limitless. Power Platform's integration of AI capabilities signals a shift towards democratizing app creation and empowering organizations to innovate at scale. Embrace the new era of AI-generated low-code app development with Power Platform and unlock the full potential of your digital transformation journey.