**Blockchain App in a Day Workshop**

**Date:** January 22, 2019

**Location:** Microsoft Technology Center, 3601 W. 76th Street, Edina MN

Blockchain (aka, distributed ledger technologies) is disrupting how industries are solving business problems and creating new markets for products and services. In this workshop, the attendee will be introduced to developing a blockchain solution for a pre-defined business use case.

# Target Audience

* Developers seeking to gain hands-on development knowledge in blockchain, it is assumed the attendee has a development background in Java or C#. This workshop is not an advanced blockchain development workshop; rather, it’s a hands-on introduction focused on developing a blockchain solution and the process for creating blockchain applications

# Objectives

* Setup local development and test environments
* Setup Azure environment for hosting the solution
* Review a completed solution and its architecture
* Break down a pre-defined, business use case into the MVP
* Develop a pre-defined, Minimally Viable Product (MVP) using blockchain technologies
* Deploy the completed MVP to Azure
* Discuss architectural concepts beyond the MVP
* Identify ways to engage in deeper strategy sessions, design sessions, and POCs beyond the Blockchain App in a Day workshop

# Requirements

* Each attendee must have their own PC pre-configured according to provided instructions
* Each attendee/company must have access to an Azure subscription where assets have been pre-deployed according to provided instructions
* Pre-work must be completed and validated prior to the workshop. No time will be spent on pre-work during the workshop; it’s important this work is completed ahead of time.

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| ***Start Time*** | ***Topic*** |
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| ***9:00 am*** | **Welcome, Introductions, Logistics** |
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| ***9:15 am*** | **Blockchain Positioning and Strategy**   * Understand roles for blockchain and Microsoft strategy * Discuss use cases across industries |
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| ***10:00 am*** | **Azure Blockchain Workbench Solution Review**   * Demonstrate and review a completed Azure Blockchain Workbench solution: smart contracts, development environment, Azure environment * Presentation of the complete, pre-defined business case |
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| ***10:30 am*** | **Deploy Azure Blockchain Workbench, MVP Process Walkthrough**   * Deploy Azure Blockchain Workbench in your Azure subscription * Discuss architecture of Azure Blockchain Workbench * Review MVP process for solution development * Deploy sample solution in your subscription |
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| ***12:00 pm*** | **Lunch (provided)** |
| ***12:30 pm*** | **MVP - Solution Development**   * Detailed walkthrough of identifying a MVP, its role, states, transitions * Hands-on walkthrough of Solidity code and Azure Blockchain Workbench solution configuration * Understand separation of local development, testing, and deployment |
| ***3:00 pm*** | **Extending Azure Blockchain Workbench, Architecture**   * Solutions to extend Azure Blockchain Workbench * Understanding the API/integration models * Identify GitHub repos, samples, and forums * Open discussion on development, architecture, and platform questions |
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| ***4:00 pm*** | **Closure, Questions, How to Move Forward** |