# Ethereum Blockchain on Azure

Perth Cloud Meetup 10<sup>th</sup> October 2017

#### Rules of Blockchain Club!

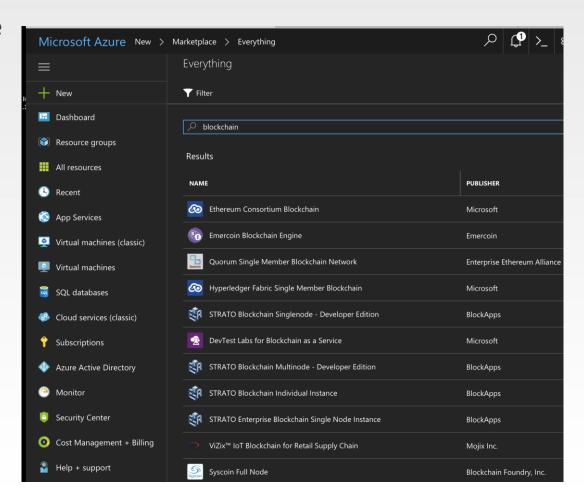
Rule 1: Blockchain is not Bitcoin! Rule 2: Blockchain is not Bitcoin! Rule 3: Blockchain is all about trust in an untrusted environment.

## Agenda

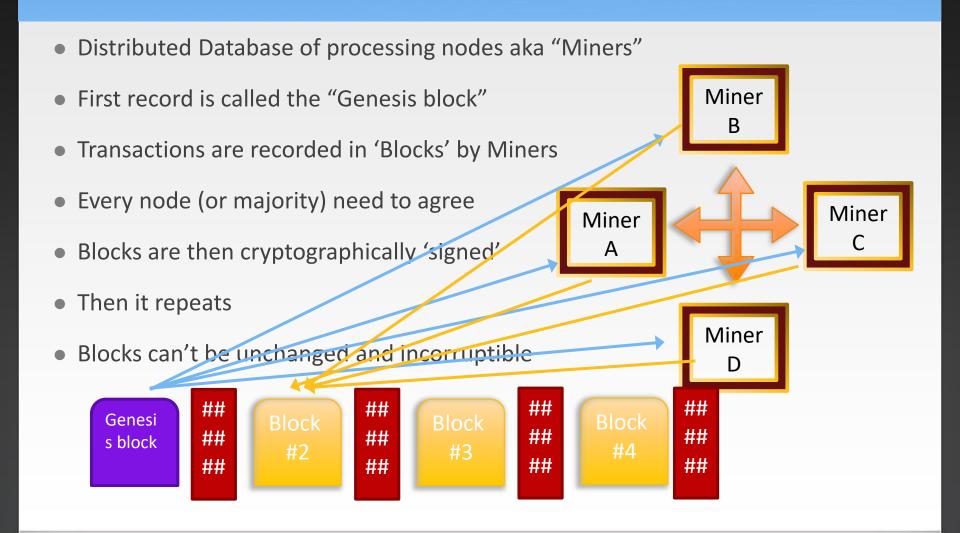
- We'll setup Azure
- Well talk about how it all works
- Discuss Smart Contracts and some real world examples
- Demo of setting up account and sending "Eth".
- If we have time ...
  - Deploy a Contract

## First up is the Azure Setup

- Plenty of options in Azure
  - HyperLedger
  - Etheruem
  - Quorum
  - Stratro
  - Vizix
  - Syscoin
  - Emercoin
- Just search "Blockchain"



#### What is a block chain? Some basics.



### But we're also looking at Smart Contracts

- Important
  - Your smart contract is NOT smart and NOT a contract! It's just code that updates a ledger.
  - Your contracts are merciless and programmers make mistakes
  - Contracts run on every node in the network
- Act as a automated "trusted" third party
  - Transfer tokens and pay out when a criteria has been reached
  - Trusted as code does not lie or cheat
  - Contracts can be published, checked and audited also "verified" to ensure what is supposed to happen, will happen.

## Some real world examples.

FINANCIAL / COMMERCIAL SERVICES



The DAO Various services





**Shares** 



Bill-of-lading



Diamond tracking

GOVERNMENT / CIVIL



Food distribution and Supply chain



**Autonomous Record Keeping** 



**Swedish Land Registry** 

#### Demo

- **Lets start with 1 trillion Eth. !!!**
- **OCreate a few accounts**
- **Transfer Eth between accounts**
- ODeploy a simple Contract
- olnteract with the contract