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Trends in

Web3 DevOps

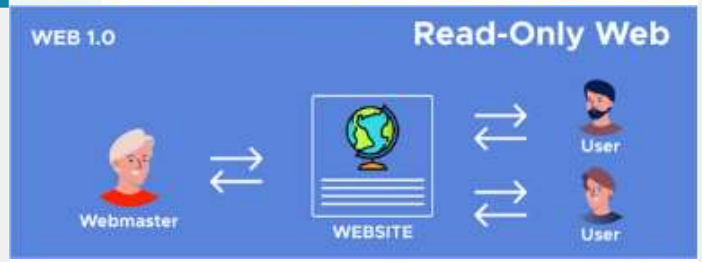
IDEATE

INNOVATE

IMPLEMENT

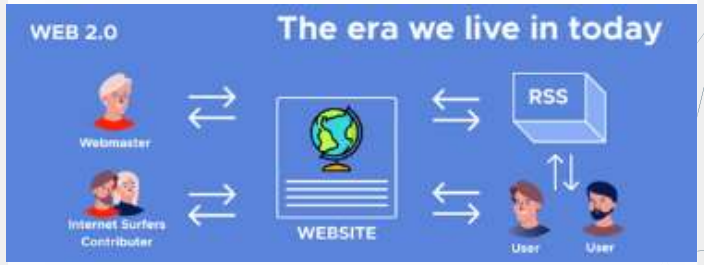
Evolution of Internet

Web 1.0: The read-only web



The first version of the Web consisted of a few people creating web pages and content and web pages for a large group of readers.

Web 2.0: The participative social web



Web 2.0 describes the current state of the internet, which has more user-generated content and usability for end-users compared to its earlier incarnation, Web 1.0.

Web 3.0: The read, write, and execute web

Web3 is built on a foundation of the ideas of decentralization, openness, and user utility. It allows computers to interpret information like humans via AI and ML.

Web3 Core Construct

Blockchain

- Decentralization
- Distributed Ledger
- Consensus
- Immutability

Cryptographic Tokens

- Clear Ownership
- Transaction Integrity
- Immutable Audit Trail

Decentralized Oracles

- Real world data interactions
- Trusted data pipes
- Multiple data sources

Stablecoins

- Non-volatile tokens
- Stability of DeFi Transactions
- Collateralized or Non-Collateralized

Decentralized Applications

- Decentralized
- Open Source
- Incentivized
- Tokenization
- Interoperable

Smart Contracts

- Open Source
- Secure
- Composable
- Autonomous

Web3 Stack

Decentralized application

DeFi

UNISWAP AAVE SUSHISWAP

Identity & Auth.

ANS METAVERSE ARGENT

NFT's

OPENSEA NIFTY GATEWAY RARIBLE

Data

CHANLINK THE GRAPH NANSEN

Presentation Layer

Web 3 Native Libraries

ETHER.JS WEB3.JS PYTHON.JS

Developer Environment

TRUFFLE HARDHAT BROWNIE

File Storage

IPFS FILEBASE ARWEAVE

Blockchain interaction Layer

Data Access

zeeve INFURA alchemy Chainalysis Dune Analytics

Block Explorers

ETHERSCAN POLYGONSCAN SNOWTRACE

Network Layer

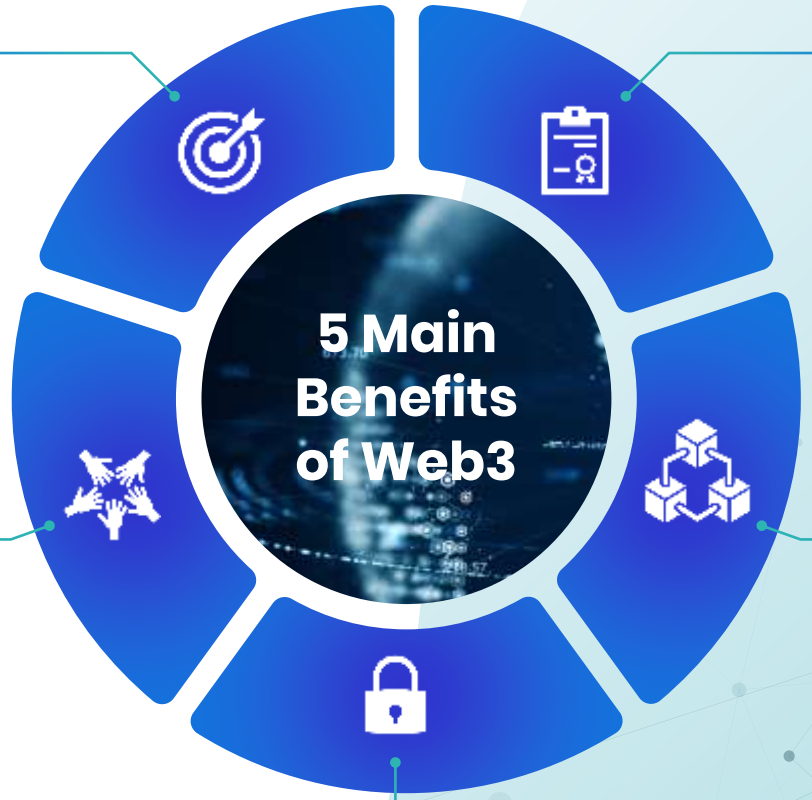
EVM Blockchains

ETHEREUM POLYGON AVALANCHE OPTIMISM ARBITRUM CRONOS STARKNET ZK SYNC

Non-EVM Blockchain

NEAR FLOW SOLANA TERRA

Web3 Benefits



Opportunity

- Open source -
  - transparency and security;
  - interoperability,
  - Security
- Composable -
  - Build new products

Ownership

- Tokenized assets
  - Clear Ownership
  - Realtime Value Exchange
  - Efficient Management
- Content Creator economy
- Incentive based gamification
  - Play to Earn
  - Move to Earn

Collaboration

- DAOs
  - Open and Transparent orgs
  - Aligned Incentives

Privacy

- Decentralized identity
  - Inclusive
  - Global
  - User control over data
  - Access/Revoke Control

Security

- Temper-proof data storage
- Verified and Validated authentication
- Integrity of Transactions
- No single point of failure

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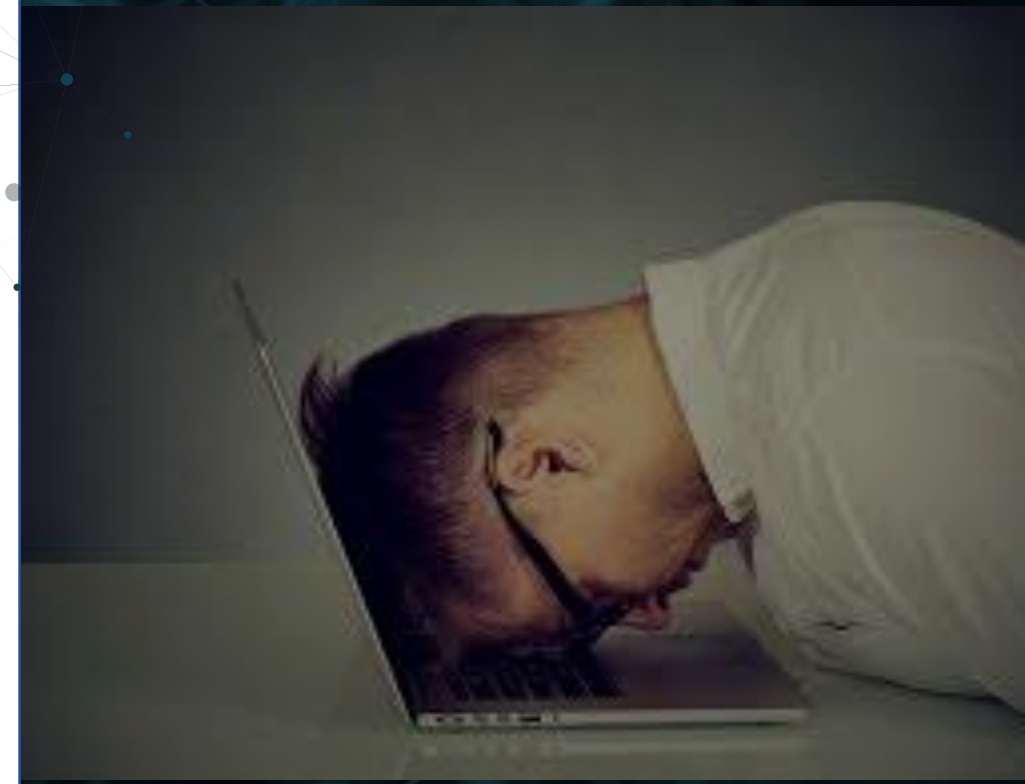
Challenges of Web3 Infrastructure

- Time to Market.
- Cost of Setup and Ownership
- Ease of Scaling – Consortium Networks
- Complex to understand and adopt
- Lack of know-how and expertise
- Lack of standards for security and optimization



What's needed - web3 Infra Automation

- The automation should be for, - blockchain protocol of choice, IPFS, RPC endpoints, wallet management, decentralised payments, easy smart-contract design and management tools etc.
- Creating your consortium in few button clicks, without losing the decentralisation
- Decide your infrastructure with no compromise, your cloud or on-premise. Every stakeholder in your consortium gets to make their own decision.
- Best in class security practices standard across all deployments
- Analytics and Monitoring which can scale with your decentralised deployments

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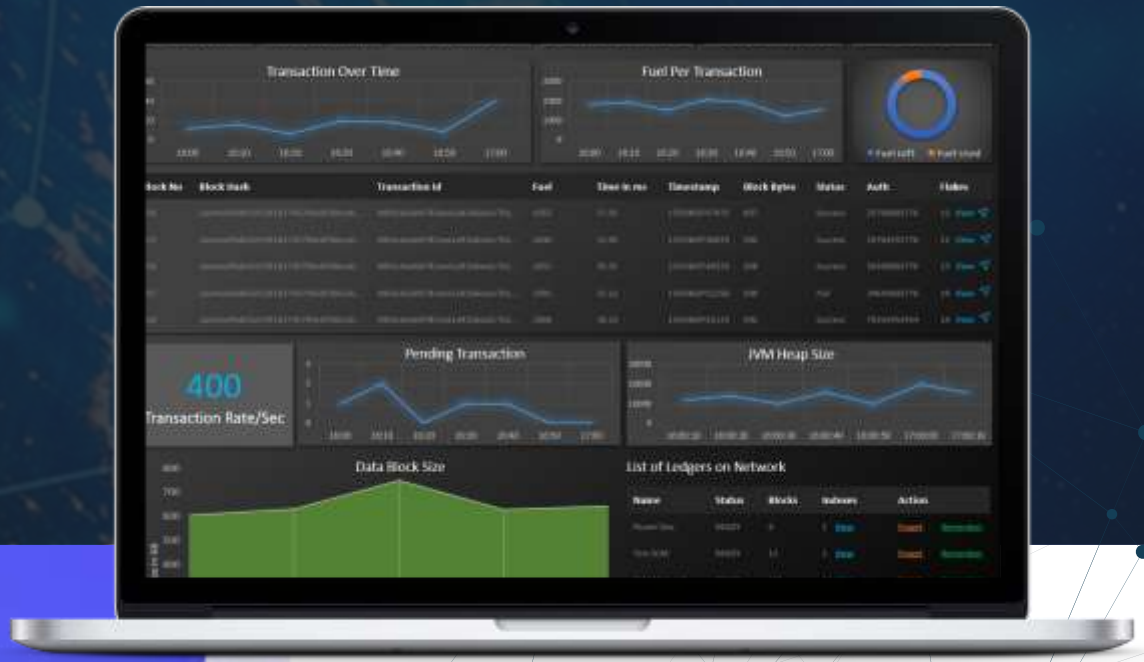
A LOW CODE

BLOCKCHAIN AS A SERVICE

ENTERPRISE PLATFORM



Supports Multiple Blockchain Protocols
100% Automated and No Code

Heterogenous Cloud Deployments
Supports all major cloud providers including Private Cloud and On-Premise

Blockchain Analytic and Real time Monitoring
Advance Analytics and Monitoring Alerts and Notifications

Web Services for Faster DApp Development
CI/CD Integrations to Services like IoT, Governance, Storage, Secure Vault etc

>60%
Cost Savings

>90%
Faster Time to Market

>15,000
Developers on Board

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A structured platform approach to deliver operational excellence across Blockchain Networks and Decentralized Applications.

Network and Security

One Platform for all your needs

- Multiple Cloud Provisioning
- One Click Node Deployment
- Unified Dashboard
- Node Security inbuilt
- Blockchain Integration
- TEE as a Service
- Decentralized Storage

Ops and Management

100% Automation and DevOps

- Resource Monitoring
- Resource Optimization
- Auto-scaling and healing
- Unified Dashboard
- Intelligent Analytics
- Network Visualizer
- CI/CD Automation

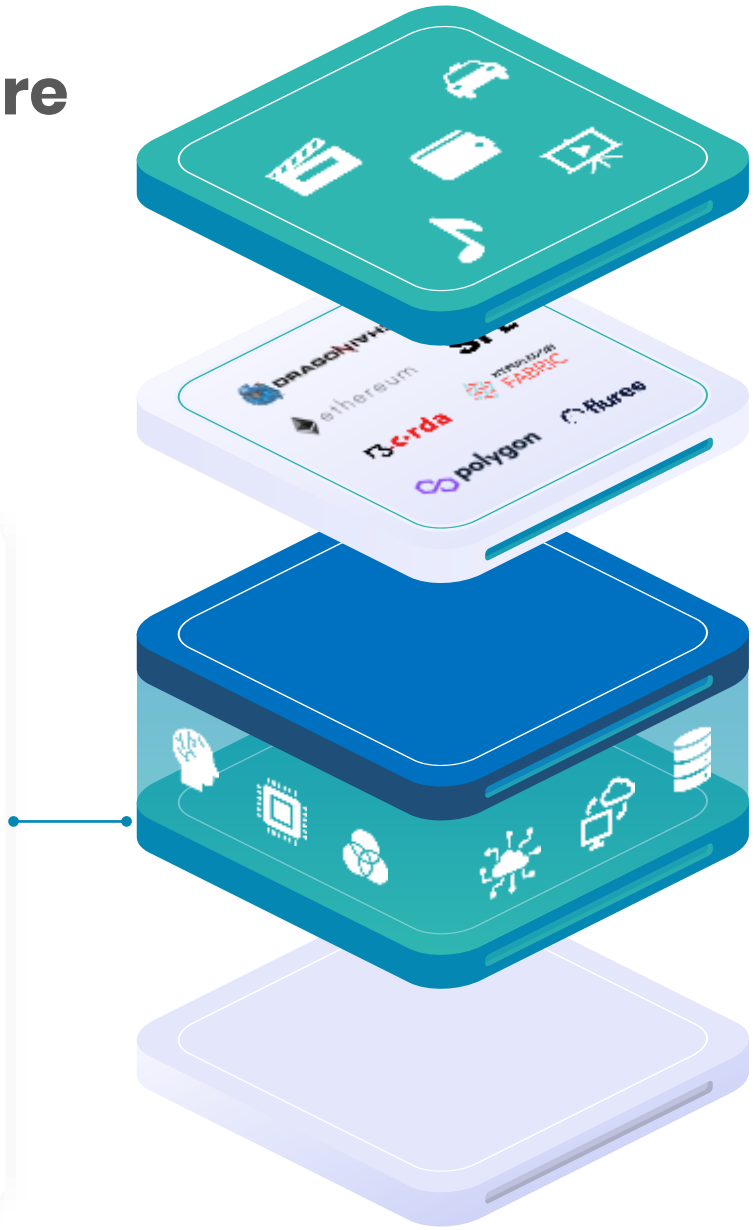
Apps and Services

A complete toolkit

- GIT Integration
- IoT as a Service
- dApp Marketplace
- Decentralized Governance
- Key Secure Vault
- Asset Tokenization
- Federated Learning

A Stack with Decentralization at Core

- Decentralized Storage
- Secure Data Sharing
- Distributed KYC
- Trusted Execution
- Decentralized IoT



Distributed Apps and Smart Contracts
Blockchain & Other Peer to Peer Applications

Peer to Peer Protocol Layer
Smart-contracts, Distributed Ledger, SFL

Zeeve SCAPE
Secure Communication & Processing Stack

System Network Layer
TCP/IP

Hardware, Devices and Cloud
Intel, ARM
AWS, GCP, Azure, IBM, Digital Ocean

VALUE PROPOSITION

Managing Enterprise Blockchain Networks is super challenging!

THE LEGACY APPROACH?

Manual Deployments – Poor Time to Market
Production grade networks take minimum of 6 weeks to Go Live

Build and Maintain DevOps Expertise – High Costs
Huge challenges in hiring and training Blockchain resources, CAPEX intensive

Manual Monitoring – Reactive and Error Prone
No standard toolset available for Blockchain Analytics and Monitoring

Compliance and Security – Lack of Standards
Plethora of protocols with varied standards, Vendor dependency

ZEEVE IS A DIFFERENCE.

No Code Deployments – Faster Time to Market by >90%
100% Automated and configurable to go Live in less than 40 minutes.

Pay as you Go – Reduce Team and Cost by >70%
Avail Zeeve Experts and No-code experience, OPEX based.

Real time Monitoring – Pro-Active and Self Healing
Inbuilt Analytics and Intelligent Monitoring with optimized setup

Unified Compliance and Security – Organization wide
Multiple protocols and clouds under one umbrella with standardized processes

PLATFORM AND PRODUCTS

Enterprise-grade infrastructure for **Developer Full and Archive Nodes**

Multichain **Blockchain Data Query API**

Blockchain APIs with secure RPC endpoints

Enterprise-grade infrastructure for **Staking Nodes**

DevOps as a Service for L1/L2 Protocols

EARLY TRACTION

Zeeve BaaS Platform is trusted by 15,000+ developers and 25+ Enterprises and Blockchain Consortiums

Early Traction & Customers

CASE STUDY

Unicus – NFTs and Royalty

- Category – NFTs
- Blockchain Protocol – Ethereum, Polygon, BNB
- Cloud – AWS and GCP
- Network Size – 3 Nodes
- Decentralized Storage - Zvault Service

Challenges

- Identify the suitable Blockchain protocols to achieve the business goals.
- Tokenization of creative work and real-world assets
- Royalty smart contracts to manage perpetual royalties
- Enterprise grade web3 infrastructure to manage the volumes
- Continuous monitoring of the deployed network as a service to reduce upfront and ongoing costs.

Zeeve Approach

- Build multichain NFT Minting and Marketplace smart contracts
- Define Royalties while minting NFTs and automation of royalty distribution automatically using smart contract with each transaction in perpetuity.
- AWS cloud architecture including node application instances, RDS for off-chain database, security rules, load balancers and the backup plan.
- Deployment of dApps for the different stakeholders directly from the GIT repository.
- Enabled the invitation module to on-board the initial users on the platform.

Results

- NFT Minting and Marketplace – **1000s of creative work and 50+ collections have been minted and millions of royalties distributed.**
- Cost Saving of ~45% –Zeeve helped optimized setting up of the nodes and network instances.
- Faster time to market by ~80% – Zeeve accomplished the complex build and deploy of **NFT Platform in 8 weeks** using Zeeve Platform and Tokenization Service..
- Proactive Monitoring – Zeeve features advance analytics and proactive monitoring of Blockchain and cloud resources..
- 24/7 Support – Zeeve provided DevOps experts and Blockchain engineers for initial deployment architecture and ongoing management of the network.

CASE STUDY

vodafone DAB – Digital Asset Broker Consortium

- Category – Telecom Consortium
- Blockchain Protocol – Corda 4.7 and Cordite
- Cloud – AWS to start upon
- Network Size – 30 Nodes to scale to 500+

Challenges

- Implement a network of Corda & Cordite services with Custom Orchestration with multiple build types including K8, Docker and Bare Metal.
- Enterprise grade network that has high availability, security and performance.
- Cloud agnostic deployment to help scale with new consortium partners with their own infrastructure preferences.
- Continuous monitoring of the deployed network as a service to reduce upfront and ongoing costs and meet production SLA.
- An enterprise level multi tier support for the Blockchain network.

Zeeve Approach

- Automated Orchestration of choice including Native, Docker, EKS and K8 over bare metal.
- Deployment of Corda 4.7 with Cordite Network-Map services with Certmon with flexible configurations.
- Monitoring Dashboards, alerts and notification of the resources as well as Blockchain services.
- Allow connectors for dApps for the different stakeholders directly from the GitLab and Jenkins pipeline.
- Enabled the invitation module to on-board the initial users on the platform.

Results

- Seamless Onboarding – Zeeve helped quick and hassle-free onboarding of users who wanted to host their own nodes.
- Cost Saving of ~45% –Zeeve helped optimized setting up of the nodes and network instances.
- Faster time to market by ~80% – Zeeve accomplished the complex deployment of DAB network of Corda & Cordite Go live within days time.
- Proactive Monitoring – Zeeve features advance analytics and proactive monitoring of Blockchain and cloud resources.
- 24/7 Support – Zeeve provided DevOps experts and Blockchain engineers for initial deployment architecture and ongoing management of the network.

CASE STUDY

TradeReboot – Trade Finance Consortium

- Category – Trade Finance
- Blockchain Protocol – HyperLedger Fabric 2.2
- Cloud – AWS and GCP
- Network Size – 17 Nodes

Challenges

- Identify the most suitable Blockchain protocol to achieve the business goals.
- Enterprise grade network that has high availability, security and performance.
- Cloud agnostic deployment of nodes so that third party stakeholders are not locked to a single cloud service provider.
- Continuous monitoring of the deployed network as a service to reduce upfront and ongoing costs.
- An enterprise level support the Blockchain network.

Zeeve Approach

- AWS cloud architecture including node application instances, RDS for off-chain database, security rules, load balancers and the backup plan.
- Build the Trade Finance DaApp and Smart Contracts
- Governance smart contract to govern the rules of the consortium
- Deployment of HyperLedger Fabric 2.2 on Kubernetes cluster on AWS..
- Enabled the invitation module to on-board the initial users on the platform.

Results

- Seamless Onboarding – Zeeve helped quick and hassle-free onboarding of users who wanted to host their own nodes.
- Cost Saving of ~45% –Zeeve helped optimized setting up of the nodes and network instances.
- Faster time to market by ~80% – Zeeve accomplished the complex deployment of trade finance network of Hyperledger Fabric on AWS in less than 30 minutes.
- Proactive Monitoring – Zeeve features advance analytics and proactive monitoring of Blockchain and cloud resources..
- 24/7 Support – Zeeve provided DevOps experts and Blockchain engineers for initial deployment architecture and ongoing management of the network.

Address

Zeeve Deeptech Pvt Ltd
1283, ATS Greens, Sector-93A
Noida, India 201304
+91 98185 92244

Zeeve Technologies Ltd.
2001, Regal Tower, Business Bay,
Dubai, UAE
+971 50 245 7978

Zeeve Inc.
395 Santa Monica Place, Unit 308,
Santa Monica, California - 90405
+1 (702) 979 5012

Contact

- Email: success@zeeve.io
  Email: ravi@zeeve.io
- http://www.zeeve.io