Squeezer Whitepaper

Executive Summary

The blockchain software industry is expanding quickly, given that blockchain related jobs are among the fastest growing in today's labor market, it is safe to assume that the demand for blockchain experts is also growing at a significant rate. The average income of a Blockchain developer (in US) has also increased by roughly 50% compared to that of the average software developer.

Vision

At Squeezer, we are creating a product stack that will help developers create dApps, and deploy them in a custom cloud. or region with just a simple click. We also offer a sandbox in which developers can test their applications and make rapid production deployments.

Squeezer applications are powered by microservices platforms, such as AWS Lambda and Google Functions, which means that the auto-scalability feature is enabled by default. Microservices also support auto-healing and allow for silent cloud deployments.

The Squeezer Platform will empower developers to compile and deploy blockchain applications in multiple stages directly from GitHub, among other code repositories.

Background

In 2015, our founder and CEO, Nick Chisiu, came up with the idea to create a **framework** that would be able to develop, compile, and deploy traditional projects on microservices platforms. By providing consultancy services to various top 1000 US INC companies, he was able to implement the framework in production environments and sustain unlimited requests based on real user's demands.

In 2017, Nick joined **ConsenSys,** a top-five blockchain development company, as a blockchain consultant. By providing consultancy services and delving deeply into blockchain technology, he discovered a connection between microservices and blockchain, these two mixed together perfectly.

As a result the Squeezer Platform and the Squeezer Chainkit came into the picture, the other two main components of the Squeezer family.

At around the same time, Nick assumed the role of CEO and technology-lead at Squeezer and dedicated himself to the company full-time. His direction for the Squeezer Project is clear: deliver the roadmap and ensure that the development team creates robust, flawless components for blockchain integration.

The problem

Complexity

As a relatively new technology, blockchain development presents a number of challenges. In order to start developing a blockchain project, an individual needs to download all the blocks onto a machine's local storage (which for BTC represents 400 GB; for ETH – 100 GB; and for LTC – 200 GB approximately) which will eventually decrease the developer's velocity. Replicating this within the production environment represents another complex task; the developer now needs to create both a stable environment and containers that can replicate hundreds of gigabytes.

At a specific number of requests, that endpoint will eventually crash, because it is not designed to scale automatically, as the blockchain is. Of course, there are many possible solutions to such a problem, but it generally requires a lot of extra time and resources.

Onboarding software developers into the blockchain ecosystem is not that simple, because besides the coding skills, server side requirements are needed too, in order to setup blockchain node instances. In addition, strong typed languages like Solidity, C++, are additional points on the requirement list. All of these will narrow down the access to the developers workforce spectrum.

Connecting to the blockchain

Besides the auto-scalability issue, there is one more concern related to reading and writing data to the blockchain.

Blockchain data is stored in logs and each block consists of a log of transactions. A new bitcoin block for example, is generated every 20 minutes. Imagine that you need to retrieve all transactions for a specific wallet address. To do this, you would need to set a node and parse all available blockchain data, which requires a phenomenal amount of computing power. When dealing with sensitive data, it is best to find a solution that does all the heavy lifting for you, it’s secure, and ensures that all data is accounted for.

The Solution

Squeezer Framework

One tool to build & deploy

The Squeezer Framework is an open source CLI for building and deploying decentralized applications using serverless functions. Instead of doing everything manually, you can create and configure resources with just a few commands, letting Squeezer do all the heavy lifting for you.

Squeezer Platform

Team Collaboration and Continuous Integration

Import a project from GitHub, share it with your team for collaboration, and start the development in seconds. Deployment of your dApp into the cloud is just a click away with the help of the Squeezer Platform.

Squeezer ChainKit

Warp Fast Solution for Blockchain Payments and Smart Contracts

Start accessing blockchain resources easily using the Squeezer Chainkit, and build serverless dApss. It's an agnostic solution to interact with any blockchain, so you don't have to deal with all the hassles of manually downloading the entire blockchain locally and setting up a dev environment.

ChainKit Features

Wallet Security

Chainkit empowers the end user to manage and store his own private credentials and by adding double wallet encryption.

Bidirectional Payment Channels

Get integration for both inbound and outbound blockchain transactions.

Blockchain agnostic

We help you access different blockchains or switch between them with only one line of code.

Smart contract secure access

Squeezer adds an extra layer on top of your smart contract to protect private methods and make it easier to access

Instant Chain Transactions

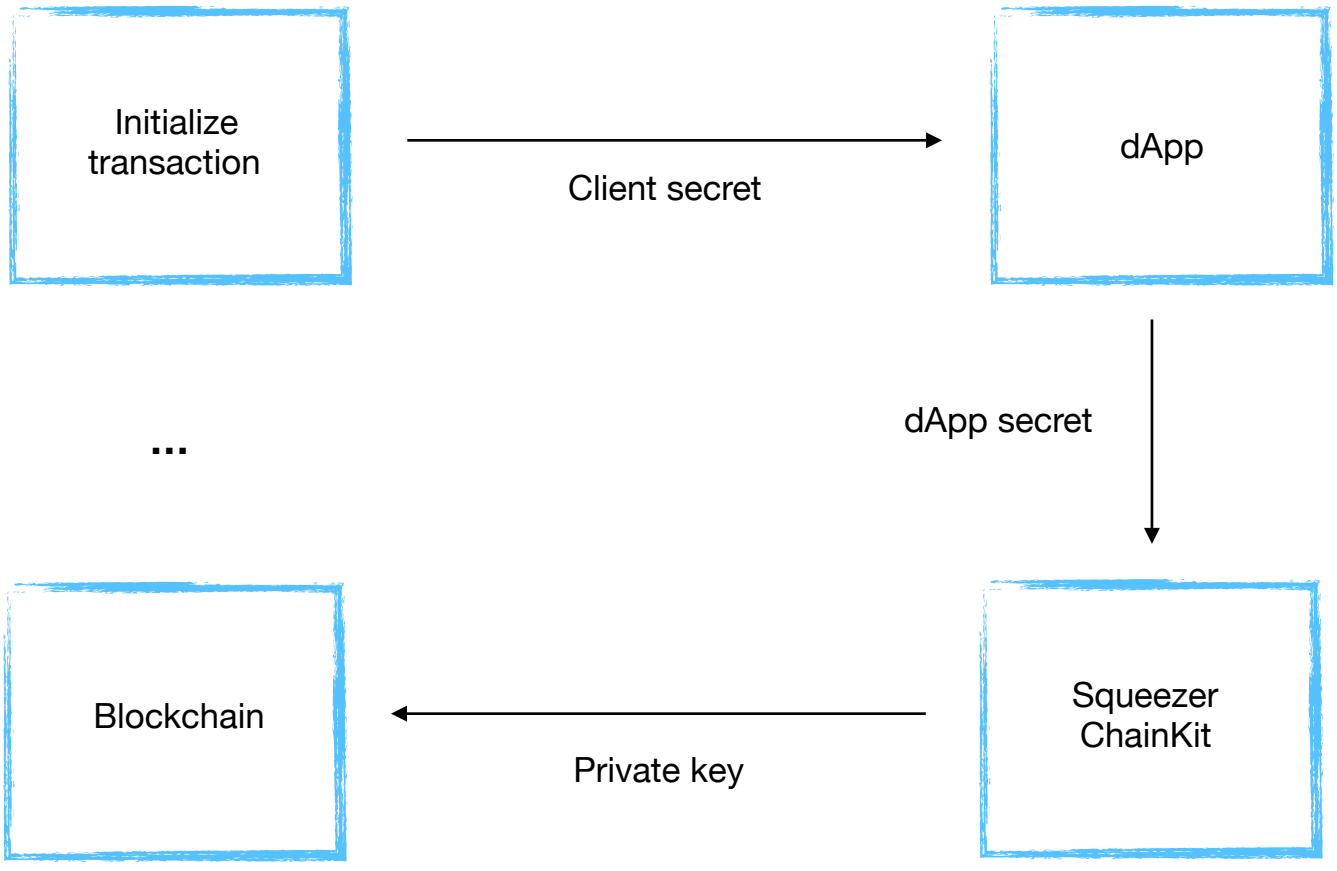
Transactions are made instantly without waiting the blockchain confirmations or other delay issues.

Wallet Double Encryption

Squeezer improves the way how a blockchain wallet is created, encrypted and stored. In order to get double encryption for a wallet Squeezer is using 2 actors (secret keys).

1. The first key is stored in to the dApp and is owned by the system admin
2. The second key is stored and owned by the end user (client)

In order to get the wallet decrypted and use it to trigger blockchain transactions, both access keys are required, so a possible attacker would need both keys for accessing the wallet, making it extremely secure.

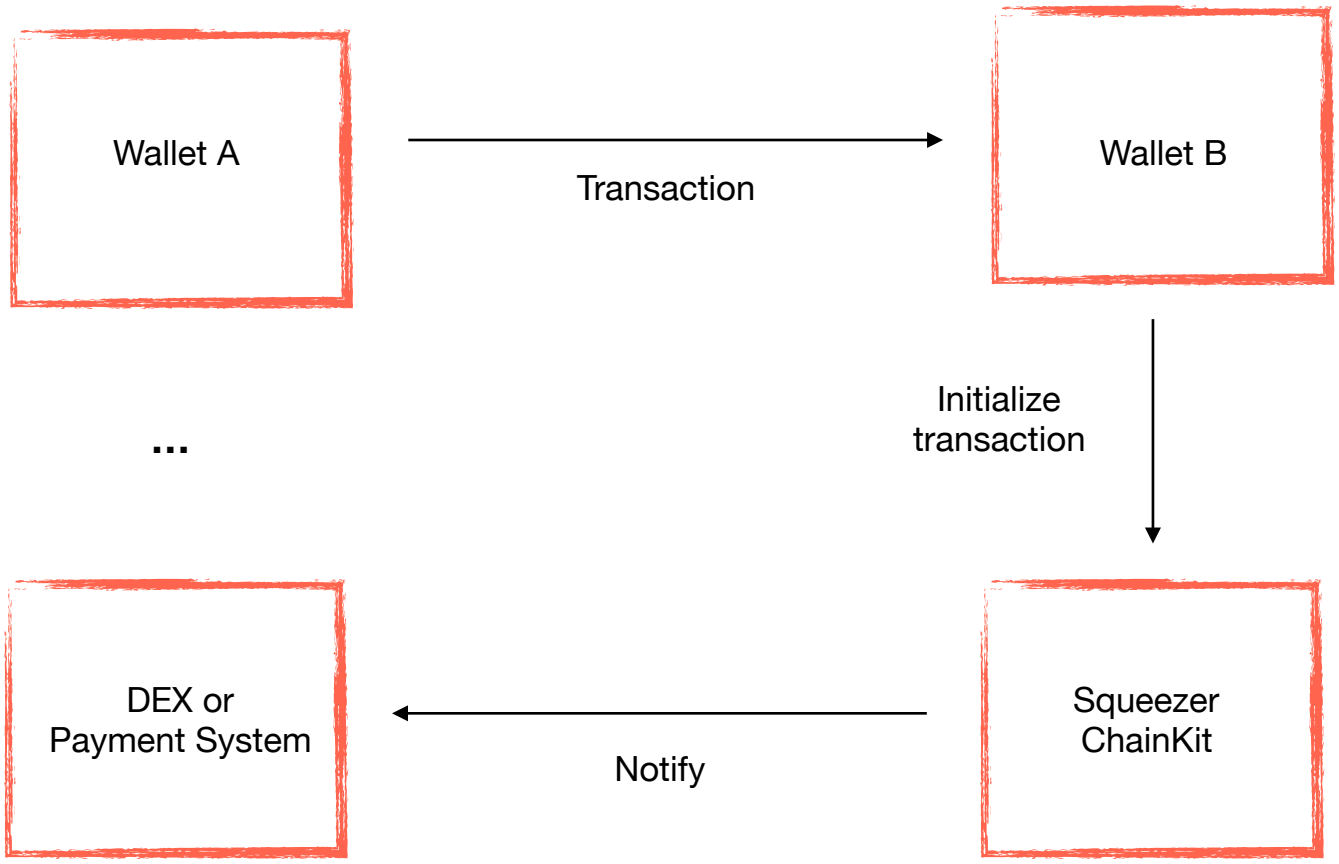


Instant Chain Transactions

A bitcoin transaction can take around < 10 minutes, Ethereum < 1 minute ... how does Squeezer manage to integrate instant on-chain transactions ?

Squeezer is created from the beginning in such a way that it encourages a decentralized and secure environment, by empowering users to store the wallet data on their own. Still, even if the user is the final data possessor, Squeezer remains on the main stage to play a role when a new transaction is triggered. By being the only option for triggering a transaction, Squeezer is able to record a transaction instantly, even before being sent to the blockchain for validation.

Transactions are added in a queue, and the user doesn't need to wait for the final transactions, still getting thousands on-chain transactions, it can be exhausting for some blockchains (BTC, LTC ...). In addition, Lightning Network and other off-chain protocols will be used where necessary.

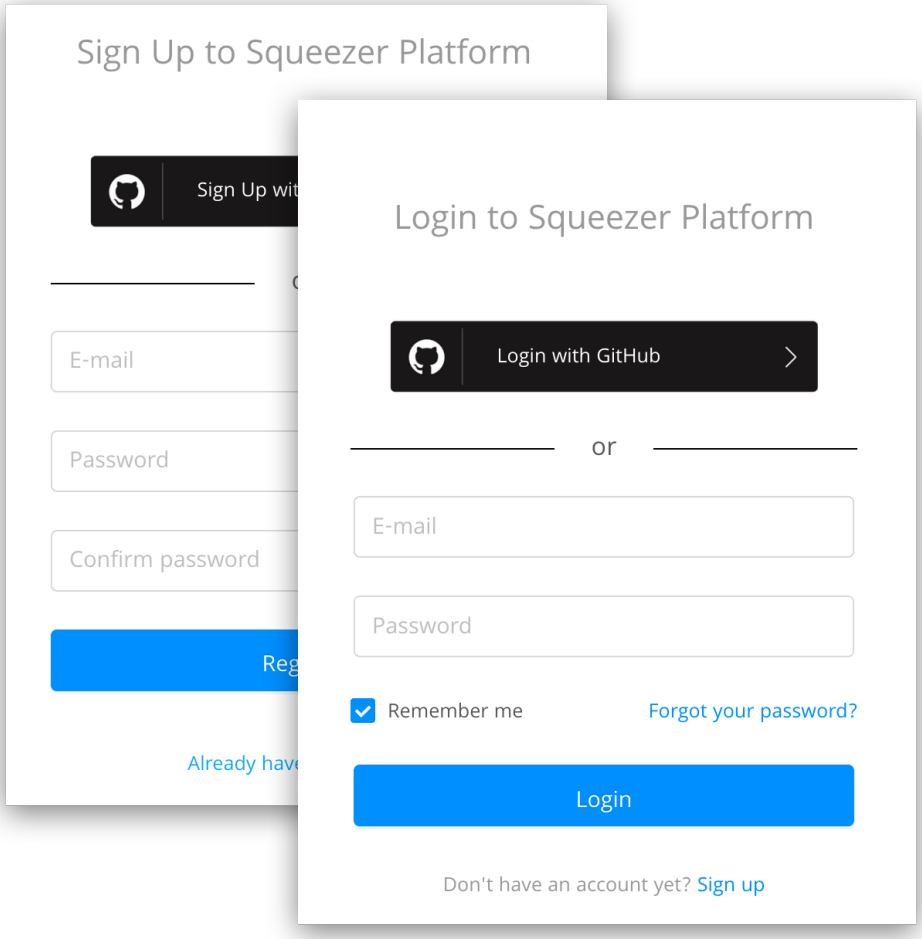

Wallet A
Transaction
Wallet B
Initialize transaction
...
DEX or Payment System
Notify
Squeezer ChainKit

Squeezer Platform

The Squeezer Platform is the user interface part of the stack. It offers the ability to import your squeezer project which you've developed using the Squeezer Framework CLI and deploy it in the cloud.

Login

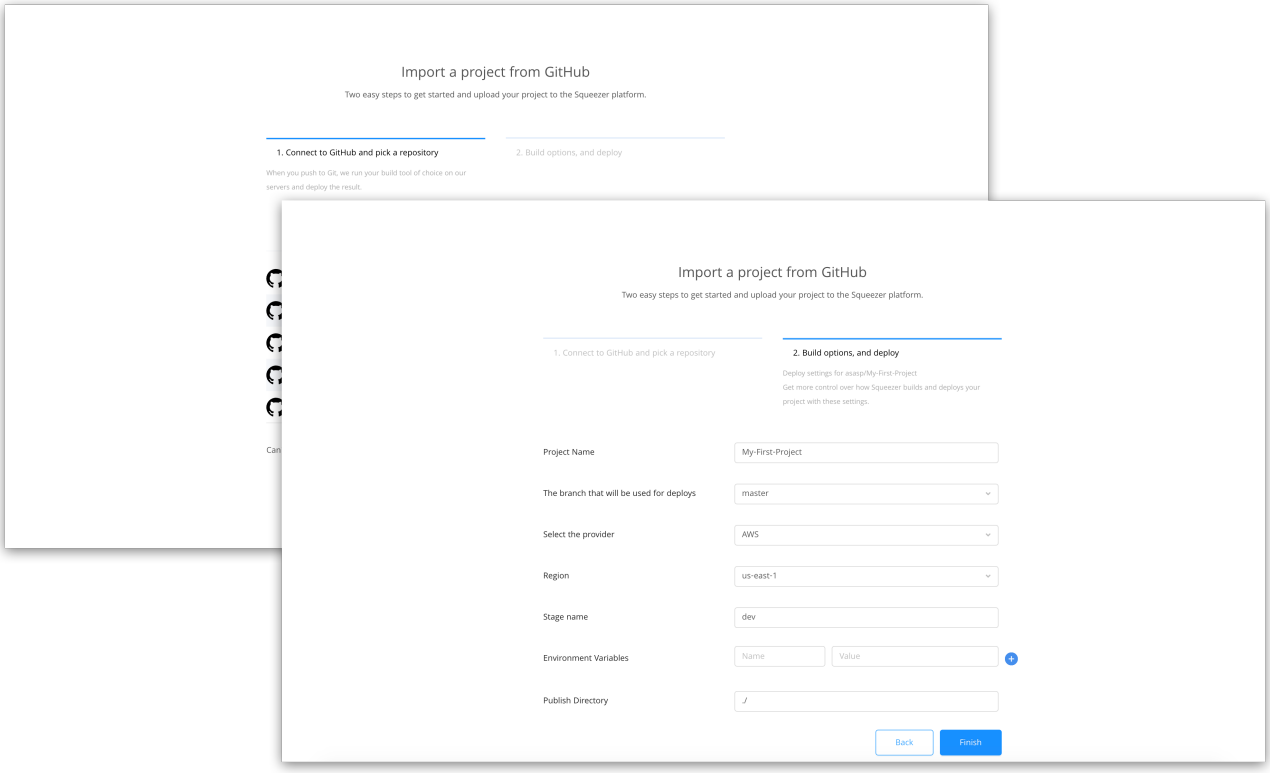
Login or Sign Up to the Squeezer Platform can be done using a GitHub account, or using generic credentials, e-mail and password.



Importing A Project

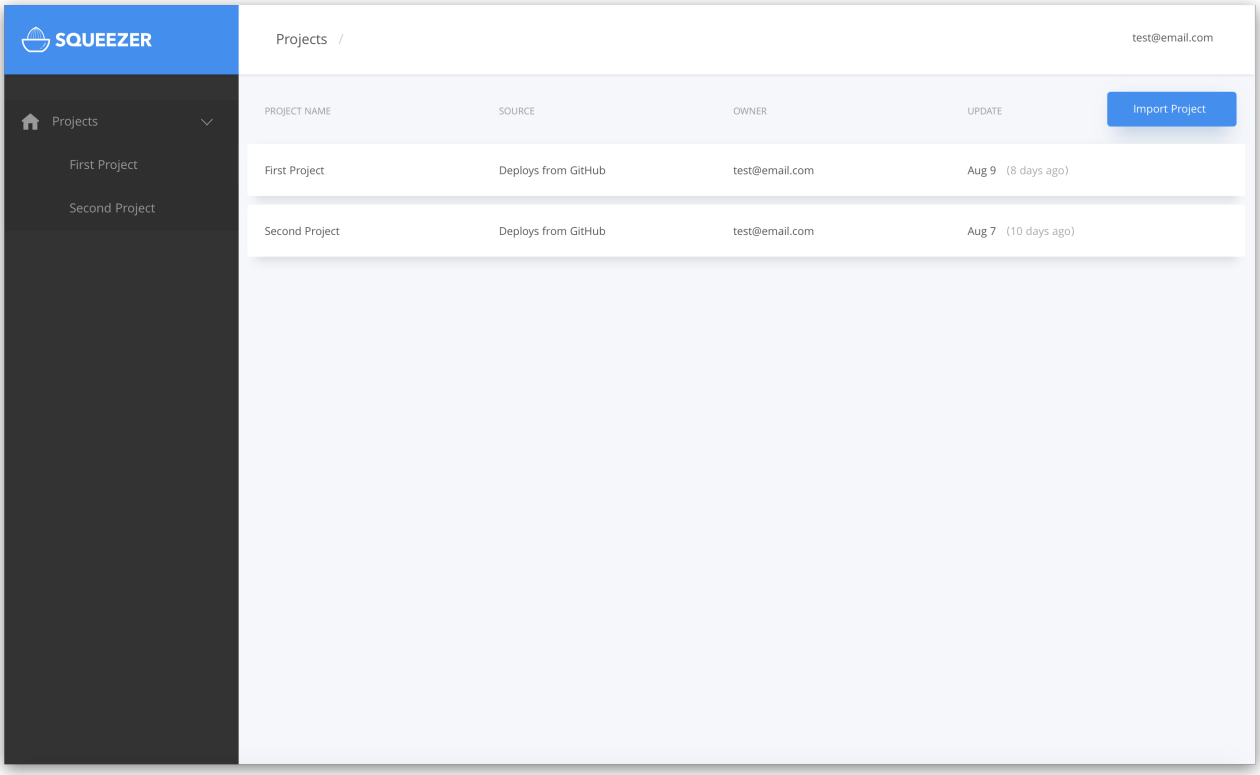
You can import a squeezer project from your GitHub account, in just 2 steps:

- After a successful GitHub authentication go to the import screen by clicking on the import project button/link.
- On the next screen of the import project, you can configure your deploy settings such as project name, the branch you want to deploy, provider, stage name, environment variables and the publish directory.



Project Dashboard

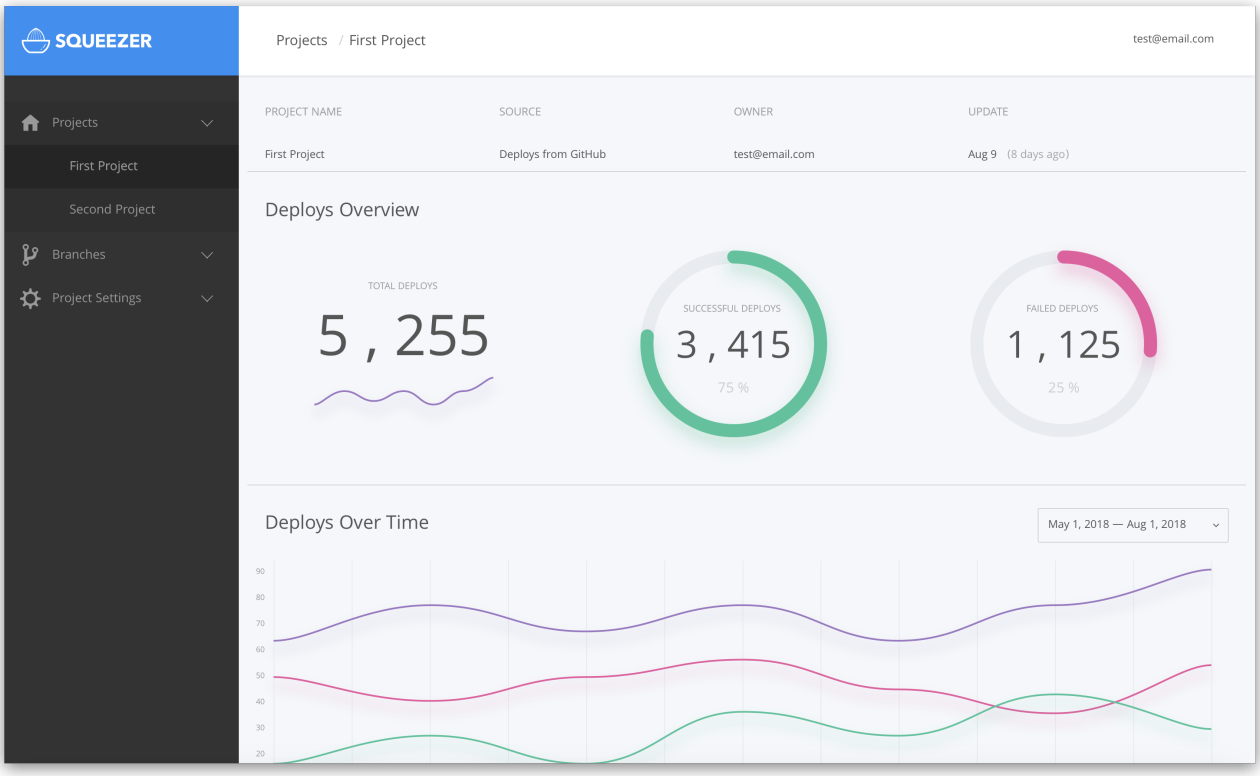
The Project Dashboard is the place where you have an overview of all your imported projects with details such as the source of the import, the owner and the date it was last updated.



There’s also an Import Project button which allows you to import any project from your GitHub account.

Viewing The Project Details

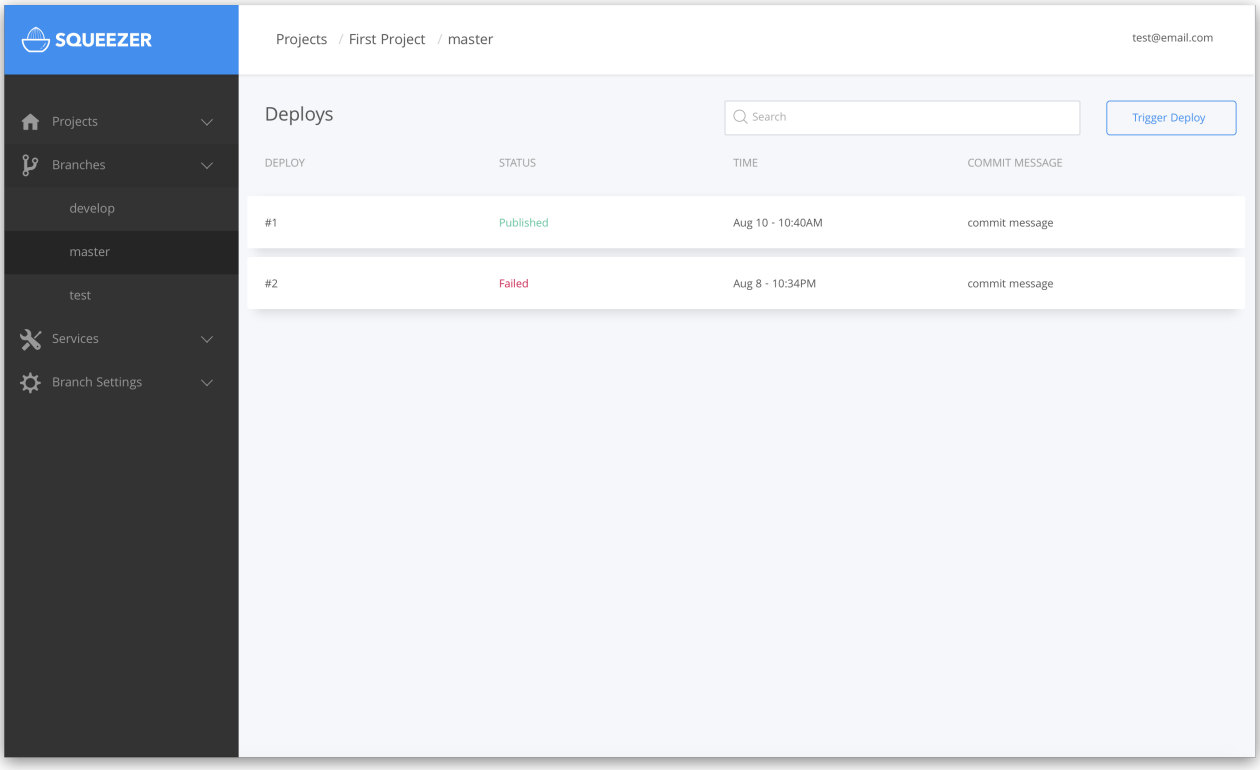
After clicking on the desired project from the Project Dashboard, the project details screen opens up. Here you can see the total number of deploys this project currently has, and you can also select to view deploys over time



Since a project can have multiple branches imported, the above deploys represent the total number of deploys per all the branches of a given project.

Branch Deploys

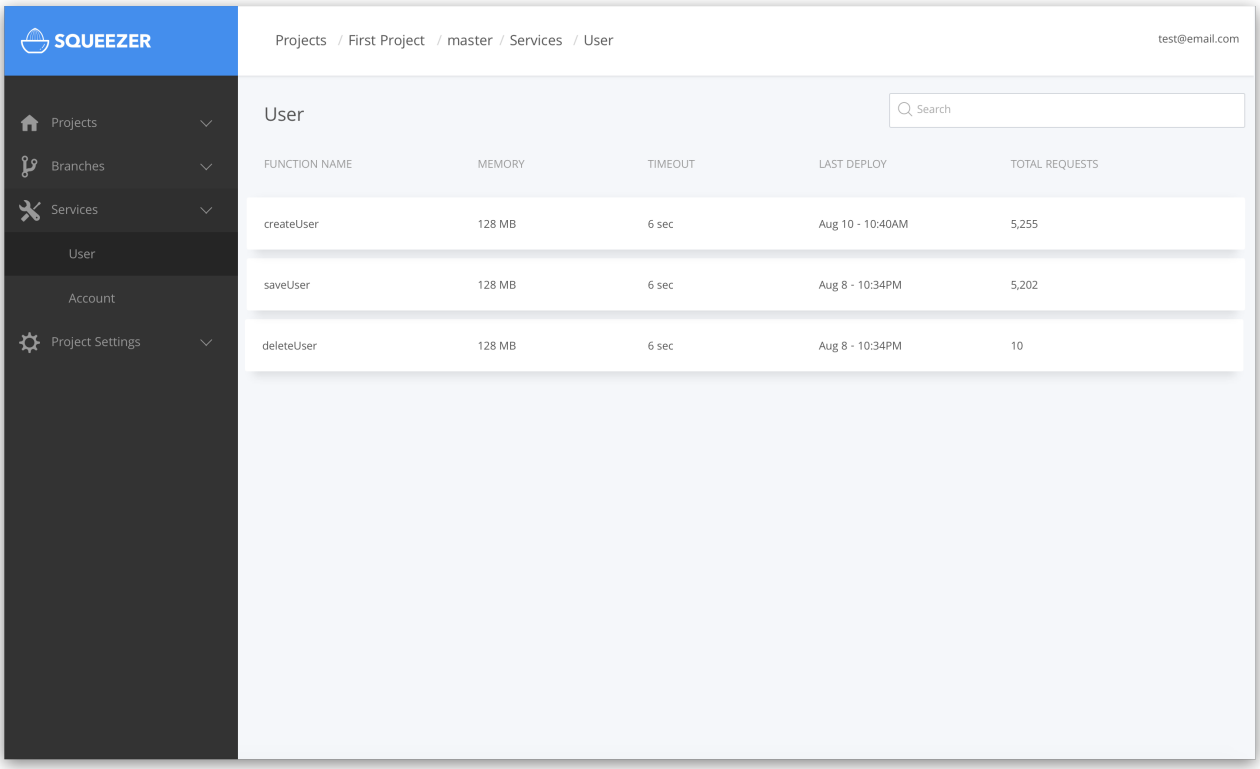
After selecting a project, you can choose any branch that was imported, to see deploys per branch, and details like the status of the deploy, last commits, and time of the deploy.



If a deploy fails for no apparent reason, you can always try to trigger the deploy manually, without the need to import the project again.

Services Overview

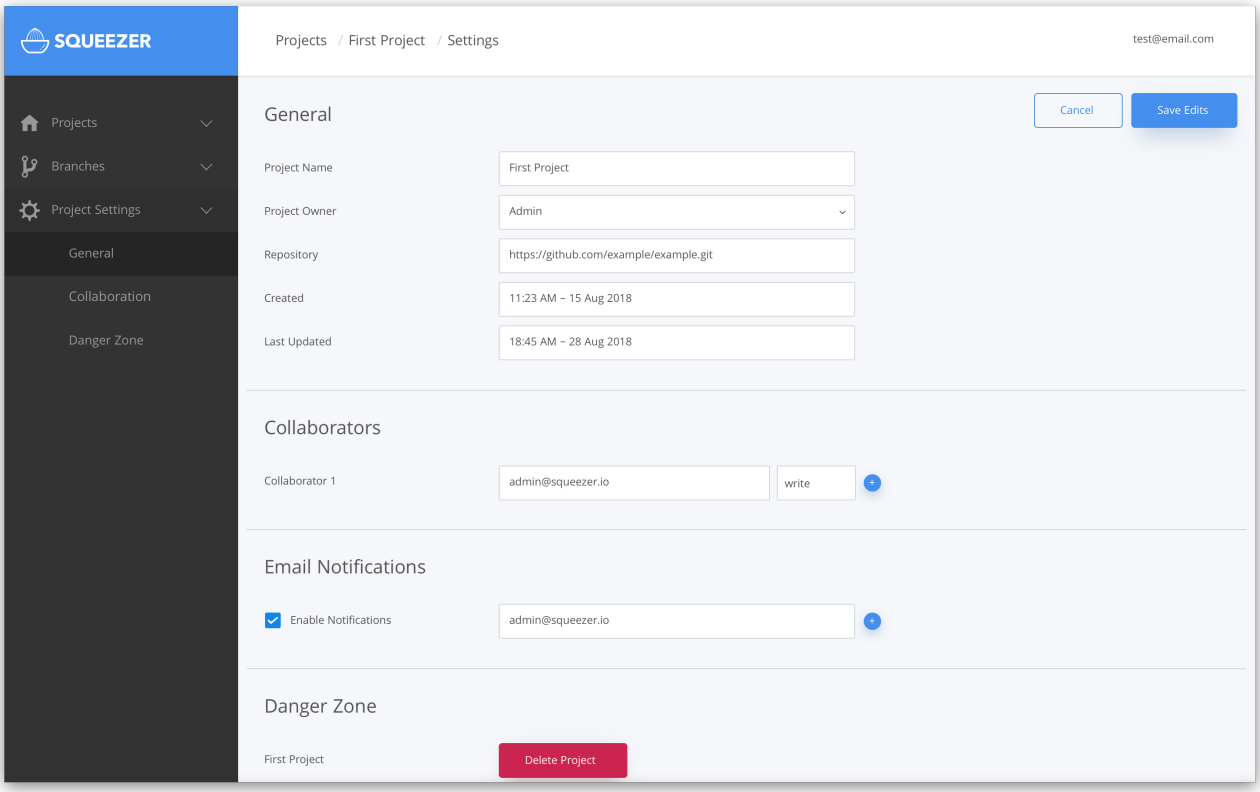
In the Services dropdown from the left navigation menu, you can see the services and functions that your project contains, along with other information, such as what amount of memory each function has allocated to it, the timeout, last deploy date and total number of requests.



Project Settings

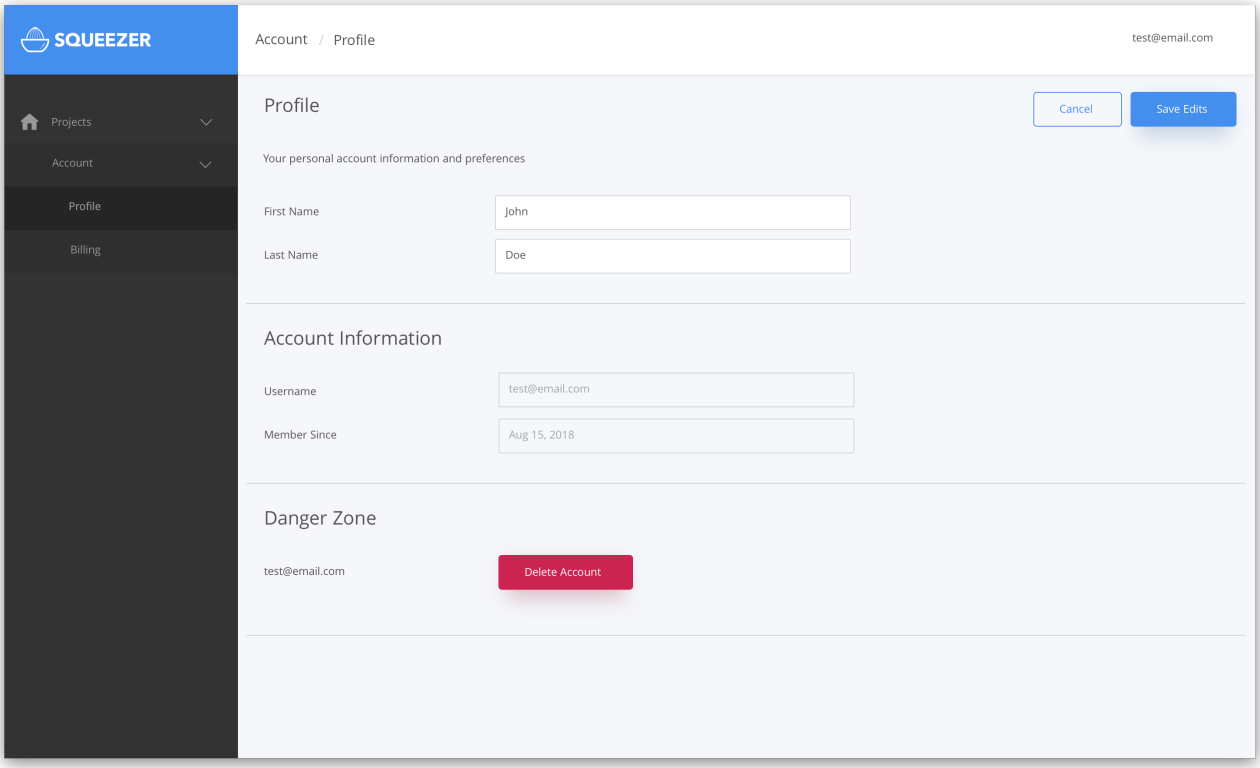
Project Settings will show you details regarding the owner, the name of the repository that was imported from GitHub and the import date.

Here you can add collaborators, so you can work in teams on your project, and also enable notifications to get an e-mail each time a deploy is made or any other activity regarding your project.



Account Settings

In this section of the platform, you can edit your profile information, and delete your account. Your username, by default, will be the e-mail address you've signed up with, and cannot be edited. This section will also show the date your account was created on.

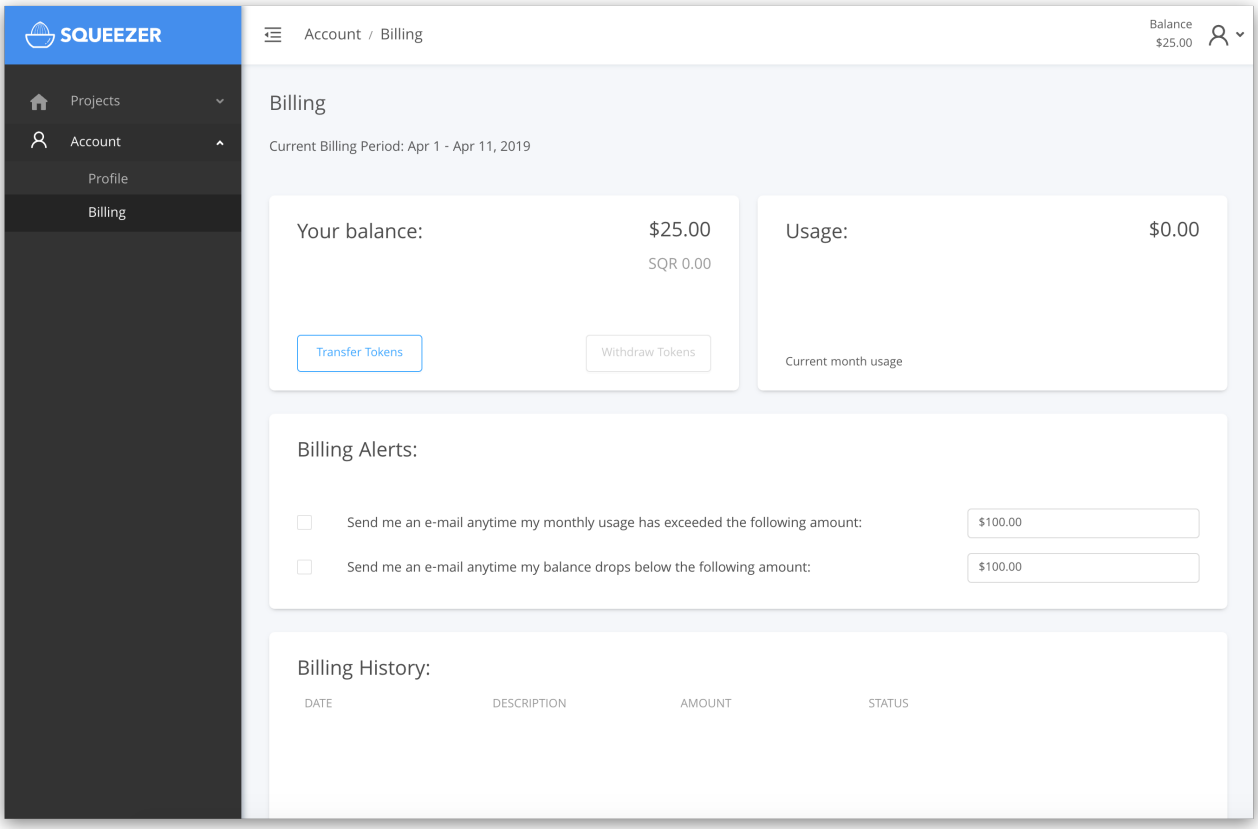


Billing

Billing is yet another important part of the Squeezer Platform. Here you can view details about your balance, which can be in USD or SQR depending on the top up method, and the usage for the current month. You have the possibility to transfer tokens to any other Squeezer user.

You can also setup billing alerts for when the monthly usage exceeds or drops under a certain amount.

You will also have a billing history where you can view all of your invoices, and export them in pdf or excel format.



Competitive advantages

A few microservice frameworks currently exist, but none of them are blockchain oriented or have given any indication in their roadmap that they intend to facilitate blockchain integration in the future, so Squeezer remains the only microservice based tool out there that is blockchain friendly.

Another advantage of the Squeezer project is that it offers a complete set of tools that helps developers build decentralized applications from start to finish.

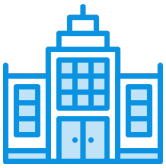
The **Squeezer Frameworks** offers an open source command line interface to build the services and functions for your app's backend.

with the help of the **Squeezer Chainkit** you can access blockchain as a service and interact with blockchain resources easily.

Importing your project from GitHub into the **Squeezer Platform** will help you then deploy, maintain, monitor, and debug your code without any hassles whatsoever.

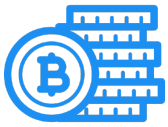
Main features of Squeezer

Zero administration



Deploy your code without any lengthy set-up beforehand or anything to manage afterward.

Blockchain



A truly revolutionary framework, Squeezer is the first platform that merges the power of microservices with the immutability of blockchain technology.

Development Climate

Simulate the cloud provider environment on your local machine. No need to deploy code at every iteration. Speed up the entire development cycle by 10x.

Pay-per-use

Function-as-a-Service (FaaS) computing and managed services charged based on usage rather than pre-provisioned capacity. You can utilize all your resources without paying a cent for idle time.

Token

The Squeezer Token (SQR) is the core utility used by developers to build and deploy apps on the Squeezer Platform.

Scalability

Let your service providers manage the scaling challenges. No need to set alerts or write scripts to scale up or down. Have absolute peace of mind during periods of high or low traffic.

Business model

Summary

Squeezer is designed as a middleware between blockchains and traditional software. There are so many companies looking for solutions to integrate blockchain into their infrastructure, such as gaming companies, social network companies, etc. The downside is that blockchain developers are extremely rare resources, and their compensations are too high. Those who are capable of leading a development team can make 80k USD a month in Shanghai. A blockchain developer in Silicon Valley is making 250-300k USD a year. Even so, it is still challenging to hire these talents, and gathering a team is a harder task.

We have developed Squeezer to be an easy solution for such integrations which can fill this gap having a huge market potential. It empowers companies and developers to integrate mordern blockchain technologies into their products in an efficient and cost effective manner. You can think of squeezer as the gateway for blockchain technology mass adoption.

Squeezer will be designed and implemented easily to integrate with traditional software suites such as SAP, Oracle, Microsoft, AWS, etc. It will connect with the most advanced blockchain technologies in the backend, such as ZIL, XML, EOS, FAB, LoomX, Moac, etc. Squeezer is sophisticated and well designed. It takes care of all the manual tedious work such as server preparations, environment setup, and presents only simple, easy to use and solid built APIs to the end users.

Business and technical consulting firms are looking for opportunities to dive into the blockchain world. Squeezer is designed to be a cost efficient and accessible tool for accessing blockchain resources, so that businesses can integrate it easier and faster. Usually the first players in the game take the bigger slices of the pie. At this moment Squeezer is the only blockchain integration tool on the market that works with every blockchain out there, making it the biggest player in this business segment.

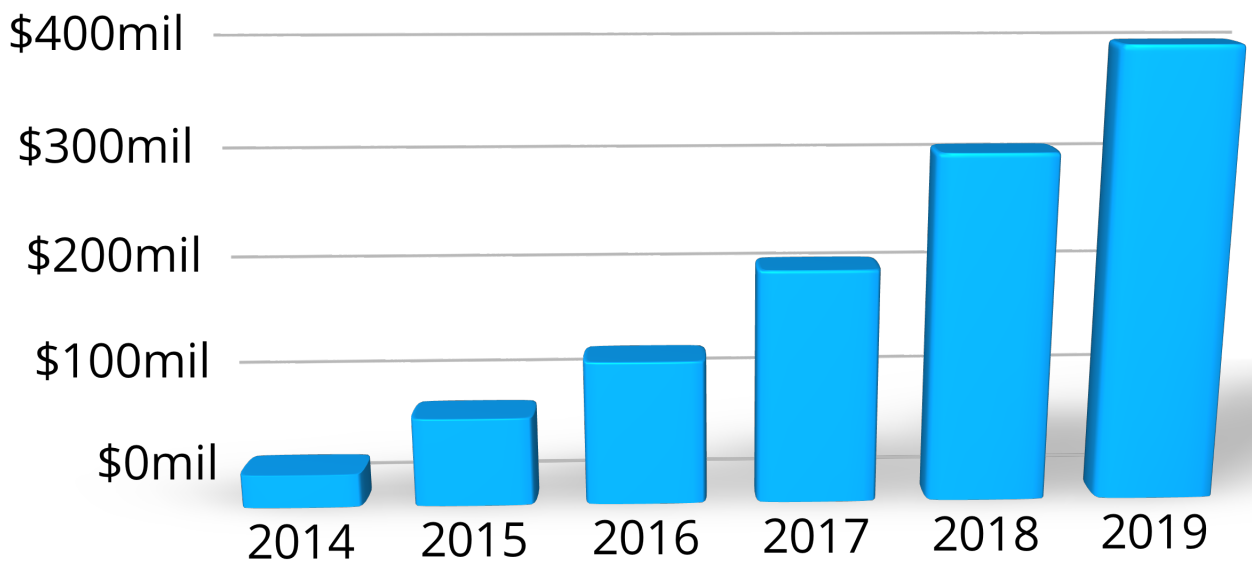
The SQR token is used in the Squeezer Platform to pay for services such as deployments, inbound and outbound transactions or additional team members to collaborate on your project.

Blockchain consultancy

The number of companies implementing blockchain technology has increased significantly across all sectors, and the demand for blockchain software developers is growing in response to this increase.

The following chart displays the amount spent by the banking sector on blockchain technology over the past five years. When you add in the amounts that governments, corporations, and other vendors have spent on blockchain, the total will be approximately **five billion USD** in 2017.

Estimated spendings on blockchain tech for the banking sector



Source: ATLAS | Data: Aite Group

Market

Our goal is to ensure that our clients can harness the full potential of cloud providers, blockchain technology, and the Squeezer software stack by providing them with our professional consultancy services. By offering the ultimate technology stack to our clients, we can streamline the integration of blockchain technology into their current enterprise systems.

1 Exchanges

The current cryptocurrency exchanges are experiencing difficulties caused by large transaction volumes over short periods of time. It is no secret that the largest exchanges have scalability issues, and they therefore have to block new user registrations from time to time. Squeezer offers a solution by integrating microservices into the core of transactional systems.

2 Banks and financial institutions

Banks are certainly interested in blockchain technology. However, most of the financial institutions we have surveyed are still in the early stages of adoption, with about three-quarters either involved in outlining a proof-of-concept, formulating their blockchain strategy, or discussing the technology at an even more preliminary stage. Squeezer represents the best tool to streamline workflows and deliver relevant insights to banks about how transactions are processed through the blockchain ecosystem.

Token Usage

Summary

Squeezer will be similar to PayPal, but for blockchain transactions, it will provide real time transactions support on different blockchains, the quickest integration at the moment in the industry (Squeezer Chainkit). This is not a merchant or a similar platform, we offer an end-to-end user integration, so we don’t bridge transactions, the user will interact directly with the blockchain resources. Squeezer is the first set of tools that does this, and the market for such services is huge, growing day by day. This software stack is built having in mind the support for a very high number of transaction requests backed by microservices. Another great feature is that you can access smart contract methods directly using the Squeezer Chainkit. You can also build a voting system dApp in minutes.

Squeezer is about the simplicity, scalability & the velocity offered to the developer in a friendly manner to build dApps. The modern dApp requires blockchain transactions support and smart contracts, we got them both, plus we offer you the rest of the technology stack to build the dApp

Each blockchain successful transaction that goes through our platform (in/out) will be billed on a fixed rated on a pay-as-you-go tier. Additionally we will have standard subscriptions to host dApps + monthly support services package (similar AWS) . All the consultancy services will be payed with SQR token. SQR token will be the only payment method available on the website.

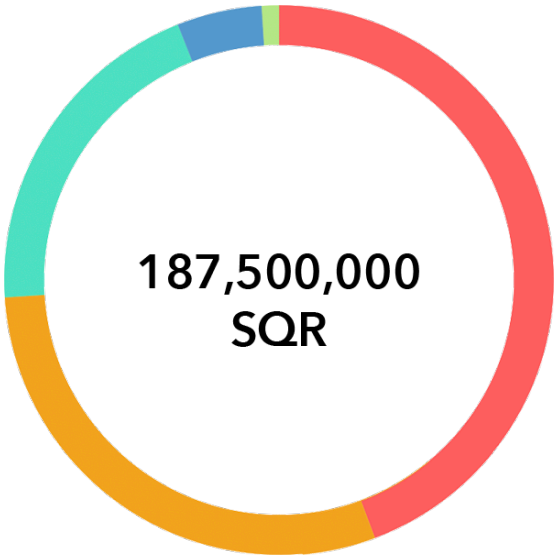
Payment type - **PAY AS YOU GO**

	**Tier 1**	**Tier 2**	**Tier 3**	**Tier 4**
Outbound Transactions	**1-10000** $0.05 **(0.25 SQR)** / unit	**10000 - 50000** $0.04 **(0.20 SQR)** / unit	**50000 - 500000** $0.03 **(0.15 SQR)** / unit	**500000+** $0.02 **(0.10 SQR)** / unit
Inbound Transactions	**1 - 10000** $0.04 **(0.20 SQR)** / unit	**10000 - 50000** $0.03 **(0.15 SQR)** / unit	**50000 - 500000** $0.02 **(0.10 SQR)** / unit	**500000+** $0.01 **(0.05 SQR)** / unit
Deployments	**50 - 100** $0.05 **(0.25 SQR)** / unit	**50 - 250** $0.04 **(0.2 SQR)** / unit	**250 - 500** $0.03 **(0.15 SQR)** / unit	**500+** $0.02 **(0.1 SQR)** / unit
Team Members	**1 - 5** $2.4 **(12 SQR)** / unit	**5 - 20** $2 **(10 SQR)** / unit	**20 - 50** $1.8 **(9 SQR)** / unit	**50+** $1.4 **(7 SQR)** / unit

Token Economics

Total Token Supply	187,500,000 SQR
Total Token Sale Supply	40% (75,000,000 SQR)
Private Sale Supply	24% (45,000,000 SQR)
Public Sale Supply	16% (30,000,000 SQR)
Initial Circulating Supply	27% (50,791,761 SQR)
Public Sale Token Price	1 SQR = 0.20 USD
Private Sale Token Price	1 SQR = 0.17 USD
Public Sale Vesting Period	None
Private Sale Vesting Period	6 months (linear release)
Token Type	ERC-20

Token Distribution



Token sale:
75,000,000 SQR (40%)
At the end of the token sale, all unsold tokens will be burned.

The Squeezer Platform:
56,250,000 SQR (30%)
The reserve required to ensure the operation of the platform. Locked in smart contract with sale restrictions for 12 months.

Team:
37,500,000 SQR (20%) Locked in smart contract with sale restrictions for 24 months.

Advisors:
9,375,000 SQR (5%)
Sale restrictions for 12 months

Marketing & partners:
9,375,000 SQR (5%)
Sale restrictions for 12 months

Token Proceeds

- Technical development: 45%
- Non-technical staff: 30%
- Marketing expenses: 10%
- Infrastructure expenses: 8%
- Other operating expenses: 7%

Legal

General

The Squeezer token does not legally qualify as a security, since it does not give any rights to dividends or interests. The sale of Squeezer tokens is immutable and non-refundable. Squeezer tokens are not shares and do not give any right to participate in the general meeting of **Golden Data INC**. Squeezer tokens are intended to be used to buy application subscriptions and services on the Squeezer Platform. Any entity that buys Squeezer tokens expressly agrees and represents that she/he has carefully reviewed this white paper and fully understands the risks, costs, and benefits associated with the acquisition of Squeezer tokens.

Knowledge

The buyer of Squeezer tokens undertakes that she/he understands this white paper and has a minimum experience of cryptocurrency, blockchain systems, and services, and that she/he fully understands the risks associated with the crowdsale campaign as well as the workflow related to the use of cryptocurrencies (e.g. **secure storage**). Squeezer shall not be responsible for any loss of Squeezer tokens or situations that make it impossible to access Squeezer tokens, which may result from any trigger or from electronic hacking.

Disclaimer

This white paper should not be considered as an invitation for investment. There is no relation between the white paper and security in any jurisdiction. Trading the Squeezer tokens will not change the default legal qualification of SQR tokens, which always remains as a utility.

All content in the white paper is designed for general information purposes only and Golden Data INC does not provide any warranty as to the accuracy and completeness of this information. Golden Data INC is not to be considered an advisor in any financial, taxation, or legal objectives. Buying Squeezer tokens shall not grant any right or influence to the Buyers over Golden Data INC's organization and governance. Regulatory authorities are carefully auditing businesses and operations associated with cryptocurrencies around the globe. Accordingly, regulatory laws, investigations, or actions may affect Golden Data INC's business and even limit or prohibit it from developing its operations in the future. Any person undertaking to acquire Squeezer tokens must acquaint themselves first with Golden Data INC's business model. This white paper may change or need to be modified because of new rules and compliance requirements. In such a case, buyers and anyone else in possession of Squeezer tokens must acknowledge and understand that neither Golden Data INC nor any of its affiliates shall be held liable for any direct or indirect damage or loss to the buyer. While Golden Data INC will strive to follow the roadmap and build the platform, Squeezer token buyers acknowledge and understand that Golden Data INC does not provide any guarantees to the accomplishment of that goal.

KYC/AML

Participants who wish to purchase tokens will need to pass the KYC/AML verification first. We keep KYC/AML verifications privately and securely stored on a cloud server using **SUM & Substance** service.

Warranty

By contributing to the crowdsale campaign, the buyer agrees to the above and in particular, they represent and warrant that they:

- have read carefully the terms and conditions included in the white paper; agree to their full implications and accept to be legally bound by them;
- are authorized and are fully empowered to buy Squeezer tokens according to the laws/rules that apply in their domicile and jurisdiction;
- are neither a US, China, Canada and Hong Kong citizen or resident;
- live in a jurisdiction which permits Golden Data INC to sell Squeezer tokens through a crowdsale without requiring any additional authorization;
- are familiar with all related regulations in the public/private jurisdiction in which they are located and that acquiring cryptographic tokens in that jurisdiction is not restricted, prohibited, or subject to additional enforcements;
- will not use the crowdsale campaign for any illegal operation, including but not limited to financing of terrorism or money laundering;
- have sufficient knowledge about the specifications of the cryptographic tokens and have the minimal experience with, and functional behavior understanding of, the usage and dealings of cryptographic tokens and currencies and blockchain-based systems and services;

- buy Squeezer tokens because they wish to trade it or build blockchain apps in the cloud in future.

Governing law

Any dispute or issue arising from or under the crowdsale campaign shall be resolved/finalized in compliance with the Belize rules for IBC (as per the IBC Act .)

Cloud Providers

The Squeezer Framework does not have any legal or partner qualification with the specified cloud providers. Therefore, there is no association or relationship implied between Squeezer's token sales and the named cloud providers. Cloud providers are mentioned only for technical purposes and not for marketing purposes under any circumstances.