



# **RISK PROTOCOL**

**Web3 Moddy's**



**Web3 Asset security incidents are frequent , and Web3 users have invested or operated without sufficient understanding of the various risks of the Web3 projects, resulting in asset losses.**

**Web3 needs a risk assessment and early warning organization like Moody's to reduce user investment losses.**

# Introduction

**Risk Protocol** provides accurate and timely risk management for Polkadot Ecology

## Mission

To be **Web3 Moody's** and bring security to Web3 investors

## Output

Risk Protocol can provide **risk scores, risk reports and risk abnormal alerts** for Polkadot ecology users

● Allow Web3 users to get timely and accurate information about Polkadot projects' risks, and to **screen out low-risk** Polkadot projects and **avoid high-risk** Polkadot projects for investment decisions.

# Team



**Andrew**  
**Project Leader**



**Eric**  
**Tech Director**



**Lei**  
**Full-stack Dev**



**Andrii**  
**Data Scientist**

# Architecture

## Upper Layer

**Desktop Client with Wallet and Risk Modules**

## Middleware

**Risk Protocol API**

## Underlayer

**Polkadot Eco Assets Integration  
Machine Learning Analytics  
AI Algorithms**

## Risk Protocol Client

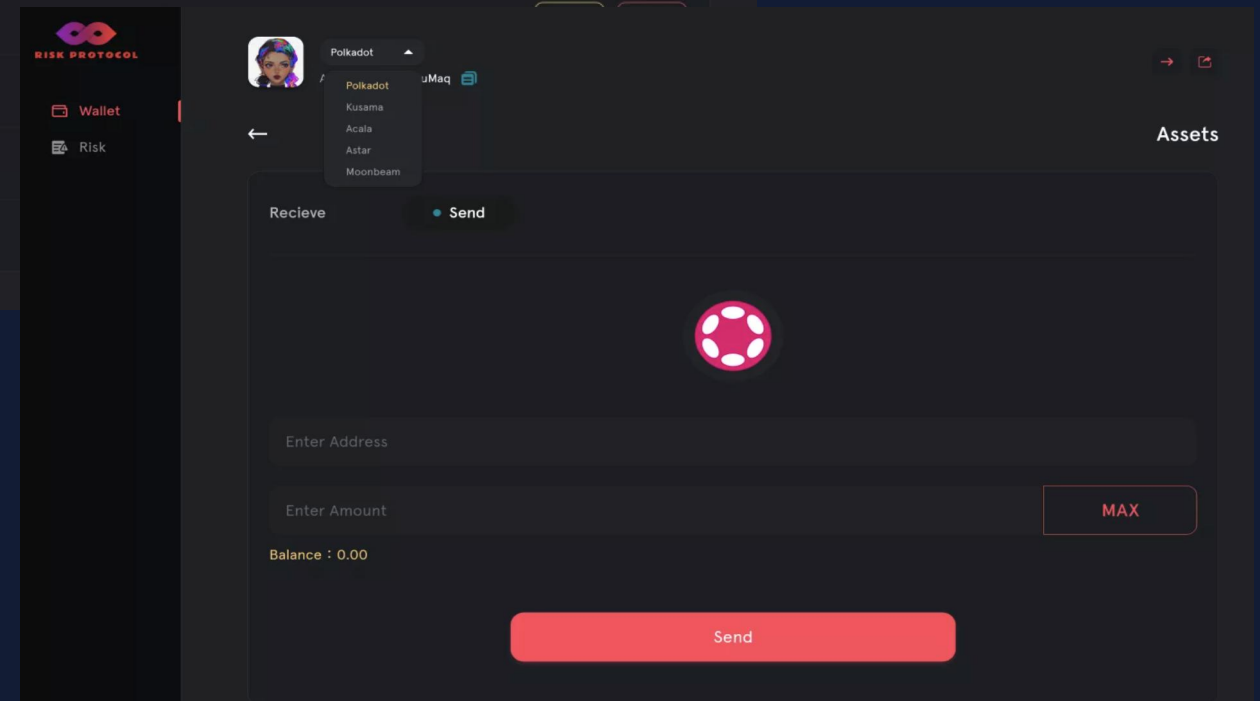
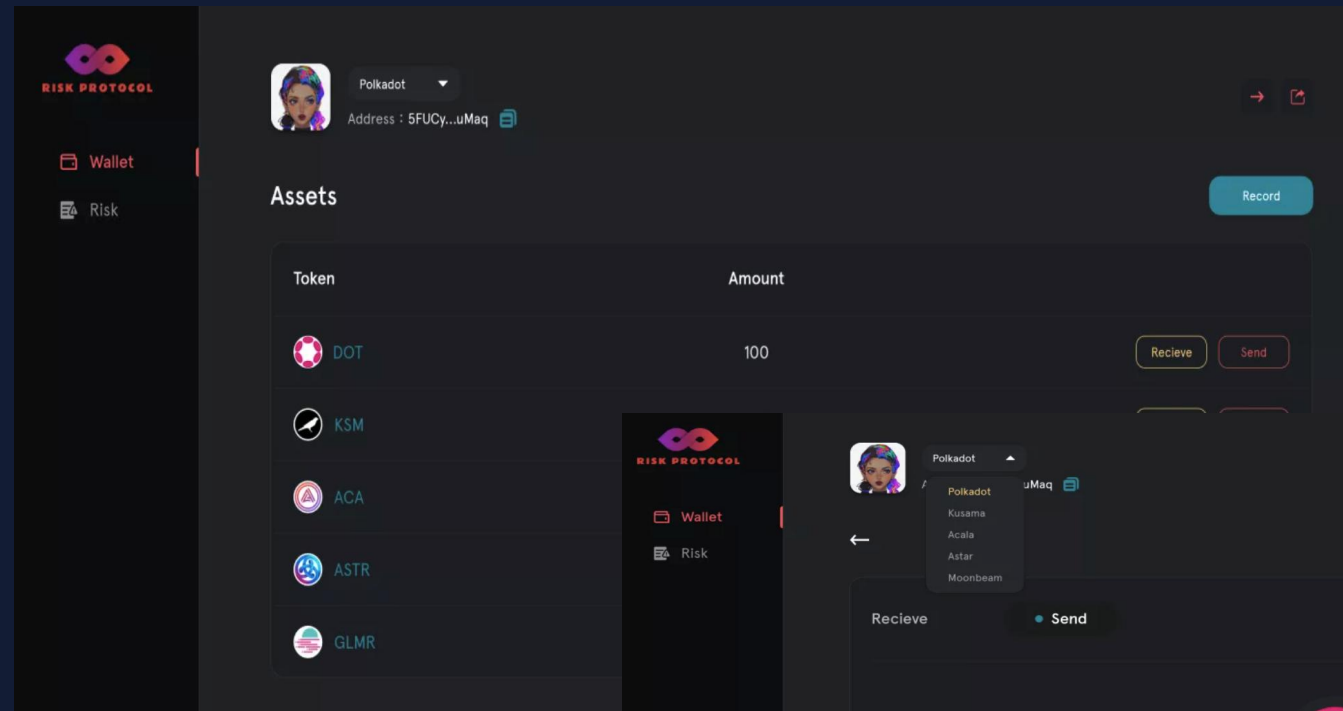
### Wallet Module

**Supports asset management for Polkadot(DOT), Kusama(KSM), Acala(ACA), Astar(ASTR), and Moonbeam(GLMR) networks, including sending assets, receiving assets, viewing asset records, etc.**


### Risk Module

**The first phase of the Risk module will support risk scoring and corresponding metrics report display for 10 Parachains, including Moonbeam, Acala, Astar, Centrifuge, Phala, Efinity, KILT, Litentry, Darwinia, Kylin, etc., and will be updated weekly.**

## Risk Protocol Client



## Risk Protocol Client














RISK PROTOCOL

- Wallet
- Risk

Polkadot Ecosystem Projects

Risk Assessment

Rank	Project Name	Score <small>Weekly Update</small>
1	 Moonbeam	98 →
2	 Acala	98 →
3	 Astar	
4	 Centrifuge	
5	 Phala	
6	 Efinity	
7	 KILT Protocol	
8	 Litentry	
9	 Darwinia	
10	 Kylin	



RISK PROTOCOL

- Wallet
- Risk

Kylin Network Score 79

Kylin Network aims to build a cross-chain platform powering the data economy on Polkadot. It will be the data infrastructure for the future DeFi and Web 3.0 powered by Polkadot. Kylin Network will provide valid, reliable, secure, cost-effective, and easily-coordinated data sources and data analytics.

Risk Score Report

High

Middle

Low

Risk Type 1: Rug-pull

Indicator Type	Risk Status
Percentage of Top20 Holders	High
Changes of Whale Wallets	Middle
Unlocking Token	Low
Operating Duration	Low
Percentage of DEX Transactions	Middle
Growth Rate of Twitter Followers	Low
Growth Rate of Addresses	Low

Risk Type 2: Market Crash

Indicator Type	Risk Status
Token Price	High
7-Day Moving Volatility of Token Price Relative to DOT	Middle



## Risk Protocol API

**Web3 developers can use the **project name** to call the **Risk Protocol API** to get the updated risk scores and corresponding metrics.**

**[Risk Protocol API Github Link](#)**

### Risk Procotol API

Version:1.0

#### Query project risk rating details

Description: Use the get request to get the detailed content of the project risk control

Request URL: <http://api.web3box.cc:9001/byid>

Request method:

- GET

Request params:

Key	Required	Type	Introduce	Vaule
name	YES	string	Project Name	Acala

Vaule list:

Vaule
Acala
Astar
Centrifuge
Darwinia
Efinity
KILT
Kylin
Litentry
Moonbeam
Phala Network

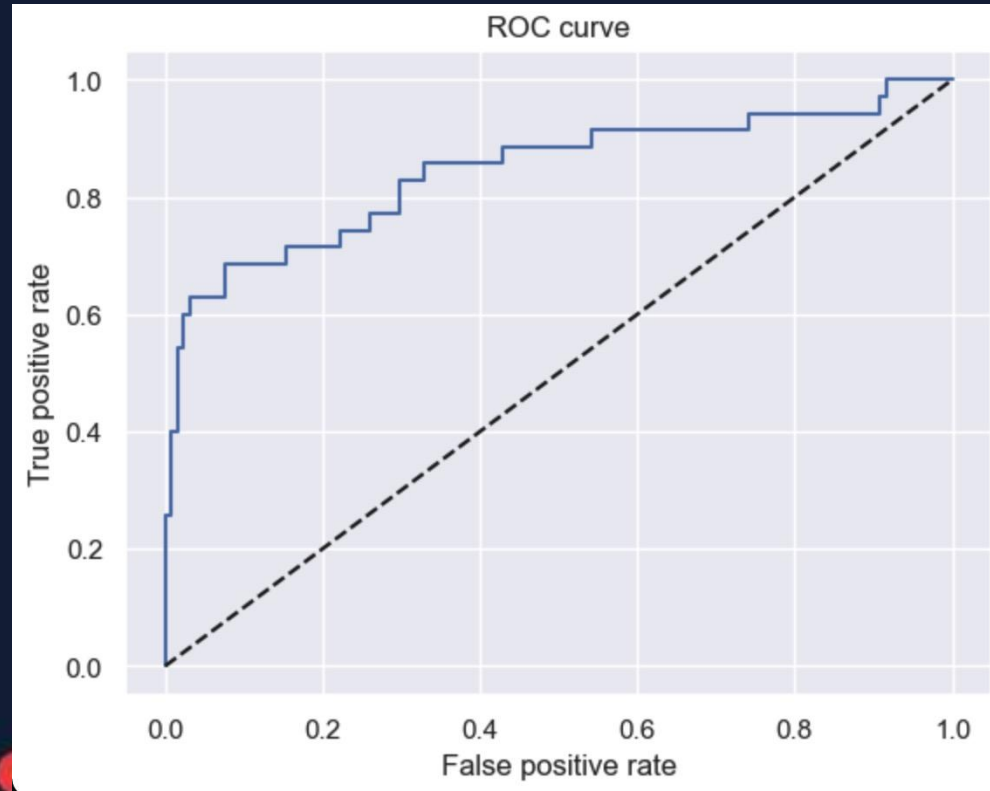
Example

```
curl -H "Content-Type:application/json" http://api.web3box.cc:9001/byid?name=Acala
```

Reponse params:

Key	Type	Introduce
brief	string	Project Description
score	number	Project rating
wallet_distribution	string	Percentage of Top20 Holders
whale_anomalie_activities	string	Changes of Whale Wallets

## Accuracy of Risk Score Model



```
115 1 # Calculate the Area Under the Receiver Op  
2   AUROC = roc_auc_score(y_test_proba['y_test_  
3   AUROC  
  
115 0.8447110141766629
```



**RISK PROTOCOL**

**Thanks**

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