



# Bitcoin Core

**Group 21:**

Connor Decan, Allen Geng, Kevin Jiang,  
Yuanqi Liang, Jayden Ting, Kevin Zhang

URL: <https://youtu.be/dhtDAZcQ5oE>

# »» Teammates

**Connor Decan (Lead)**

**Abstract + Intro +  
Enhancement +  
Alternatives**



**Allen Geng**

**SAAM Analysis +  
Comparison Conclusions**



**Kevin Zhang**

**Effects on High and Low  
Level Architecture**



**Kevin Jiang**

**Use Cases**

**Jayden Ting (Present)**

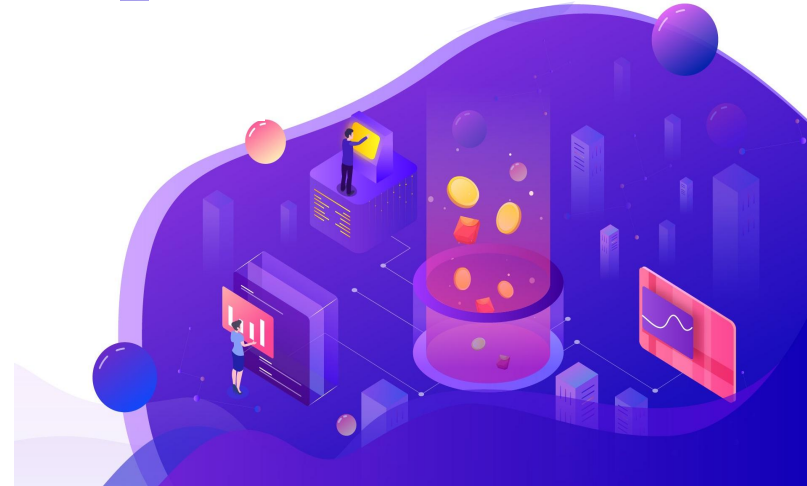
**Testing**

**Yuanqi Liang (Present)**

**Potential Risk & Limitation**

# »»» Contents

- ★ Introduction
- ★ Two Approaches with SAAM Analysis
- ★ Use Case
- ★ Plans for Testing
- ★ Concurrency
- ★ Potential Risks & Limitation
- ★ Team Issues
- ★ Lessons Learnt



# >>> Introduction

Storage Space

Disk Space Limiter



Disk Space Checker

# »» Impacted Subsystems & Dependencies

- ❖ **Storage Limiter -> Storage Engine**
- ❖ **Miner -> Storage Limiter/Storage Checker**
- ❖ **App & GUI -> Storage Limiter**
- ❖ **RPC & API -> Storage Limiter**
- ❖ **Storage Limiter/Storage Checker -> Apps & GUI**
- ❖ **Storage Limiter/Storage Checker -> RPC & API**

# »» Concurrency

**1**

**Multiple processes running at the same time**

**2**

**Improve the fault tolerance**

**3**

**Allows the limiter/checker to continuously monitor and limit the storage space usage**



# »» Potential Risk & Limitation



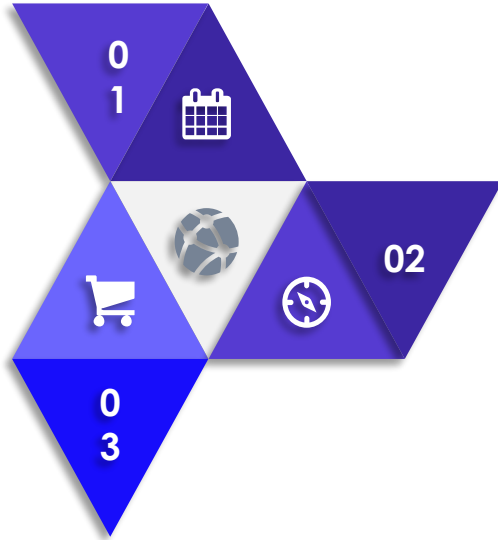
## Disk Space Limiter

- 1 Inadequate or too much space
- 2 Security
- 3 Performance

## Disk Space Checker

- 1 Resource contention
- 2 Security
- 3 Performance

# »» Team Issues



**Difficulty in analyzing the dependencies between components after adding checker/limiter**



**How new components did not interfere with the overall functionality of the system**





# »»» Lessons Learnt



**Understand project management**



**Check the interactions between components**



**Analysis of stakeholders**

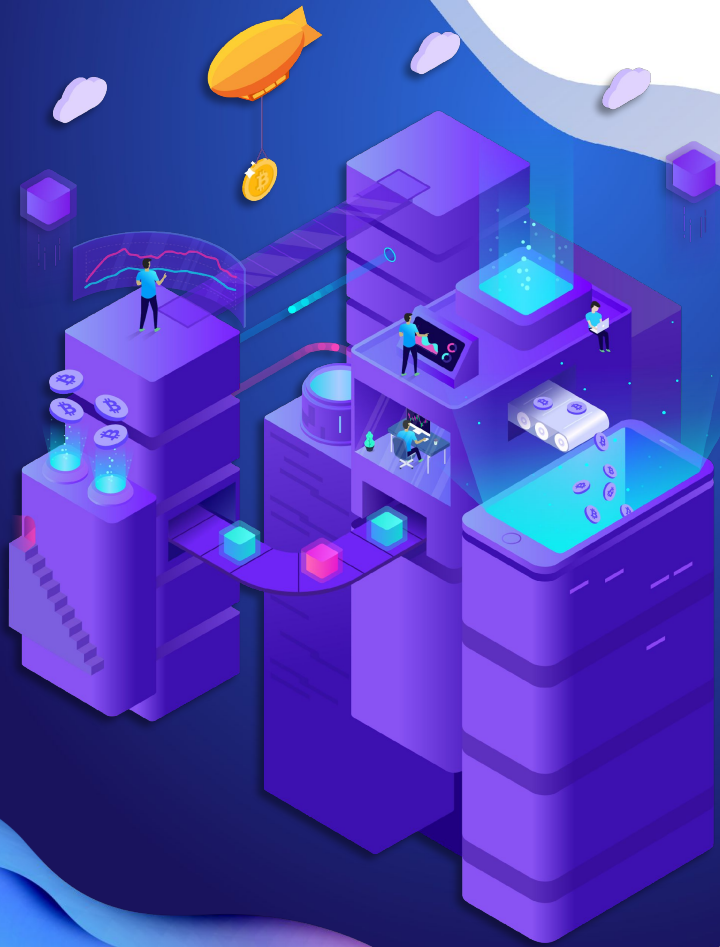


**Potential risk & limitation**



# Conclusion





- **Thank You**