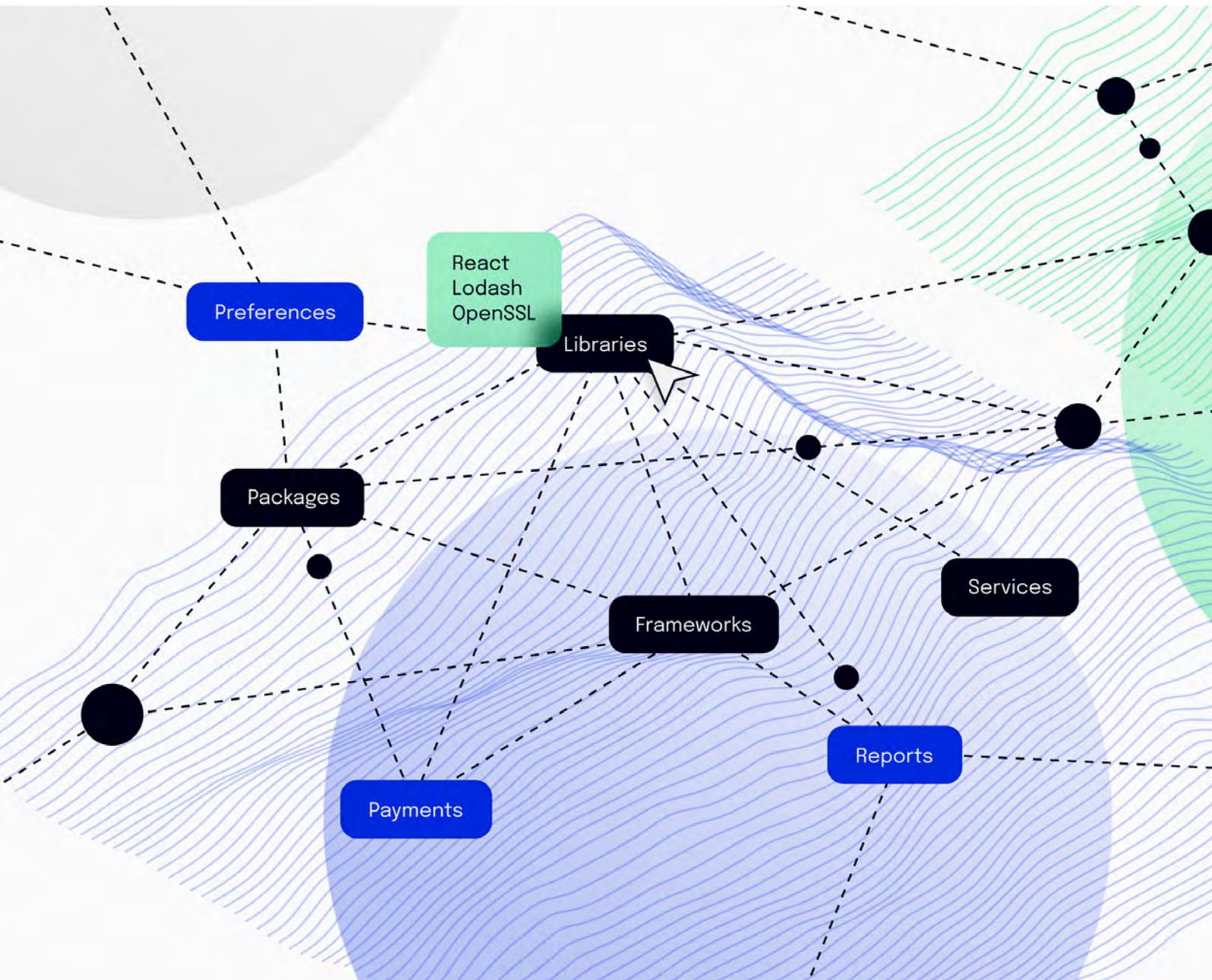




# Know Your Systems

## Chart Your Course

- ✓ Cryptographically Verified
- ✓ Turning Chaos Into Clarity
- ✓ Precise project scoping, data-driven project management, and faster, more accurate Post Quantum Cryptography (PQC) inventories



## What We Do?

Spice Labs provides deep, data-driven visibility into software systems by building comprehensive maps of software artifacts including containers, virtual machines, packaged applications, and their dependencies using cryptographic fingerprints.

Our platform enables teams to confidently scope projects and update systems with measurable accuracy - replacing guesswork with hard data.

Instead of traditional inventories or lists, Spice Labs produces actionable maps that show what truly exists in a system, how components relate, and how that landscape changes over time.

## Why Does It Matter?

### Eliminates Software Blind Spots

Most organizations don't fully know what's running in their environments - especially in large, legacy, or complex software estates. Spice Labs reveals what actually exists in a system, not just what was intended or documented.

This matters because:

- Guesswork in software leads to costly overruns, project delays, and risky assumptions
- Hidden or outdated components can cause security vulnerabilities and integration failures

### Improves Modernization & Technical Debt Planning

When teams modernize software or migrate legacy systems:

- They need an accurate, global view of dependencies and components
- Spice Labs' maps help scope projects, and track progress objectively - not through intuition or manual inventories

### Fast, Accurate Post Quantum Crypto Inventories

Racing with the clock to ensure the 2030 PQC deadlines are met:

- Build a PQC inventory of what's actually built
- Find Commonalities across modules to make upgrading easier
- Integrate with Java Flight Recorder to document what is actually being run

### Supports Compliance & Security Posture

Security teams and auditors need:

- Verifiable evidence of what's in production
- Comprehensive inventories for compliance requirements (e.g., regulations, standards)

Spice Labs provides provable records of software composition and dependency changes over time - something simple Software Bills of Materials (SBOMs) or scanners alone often can't offer.

### Bridges Gaps Between Tools

Many tools focus only on specific slices of a system:

- Scanners detect vulnerabilities in live environments
- SBOMs list components
- CI/CD tools check code as it's built

Spice Labs reveals the full composition and relationships across all deployed artifacts (containers, VMs, packages), even in legacy systems without SBOMs.

- Accurate Update Planning: Remove guesswork from scope, estimation, and execution
- Measure Progress Over Time: Compare maps across snapshots for objective insights and data-driven predictions

# Core Capabilities

## Topographer - Cryptographic System of Record

Converts cryptographic signatures (“gitoids”) into intuitive, actionable software maps.

Anchors against a database of billions of known artifacts, exposing hidden components and dependencies.

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## Surveyor Artifact Analyzer

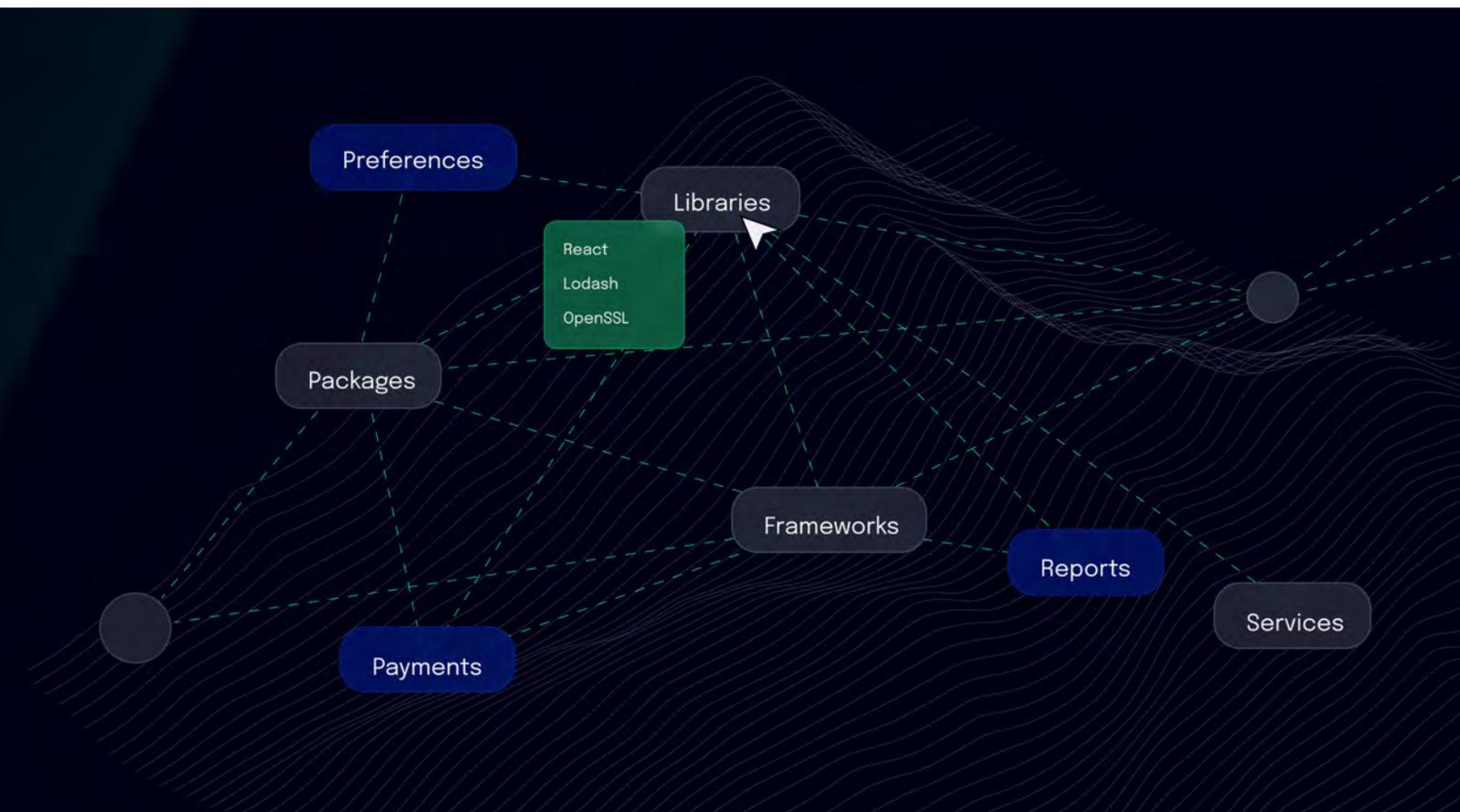
Fingerprints containers, VMs, and application artifacts.

Enables fast and precise inventories, even in environments lacking build records or accurate SBOMs.

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## Historical Comparison

Track changes to systems over time to measure remediation, modernization progress, or introduce compliance evidence.



# Technical Underpinnings

Surveyor runs against post-build artifacts such as JAR files, .Net assemblies, Docker images, etc.

Surveyor code is all open source under an Apache 2 license.

At Spice Labs, we believe that users' data is their data, not our data to be mined.

We protect and segment user data with cryptography.

Spice Labs structures access control via Organizations which contain Teams which contain Projects.

Each Project has a separate public/private keypair. The private key is stored in Hashicorp Vault and never exposed to any system outside of Vault.

The public key is distributed to the Surveyor open source tool as part of a JWT used by Surveyor to upload data to Spice Labs' SaaS service.

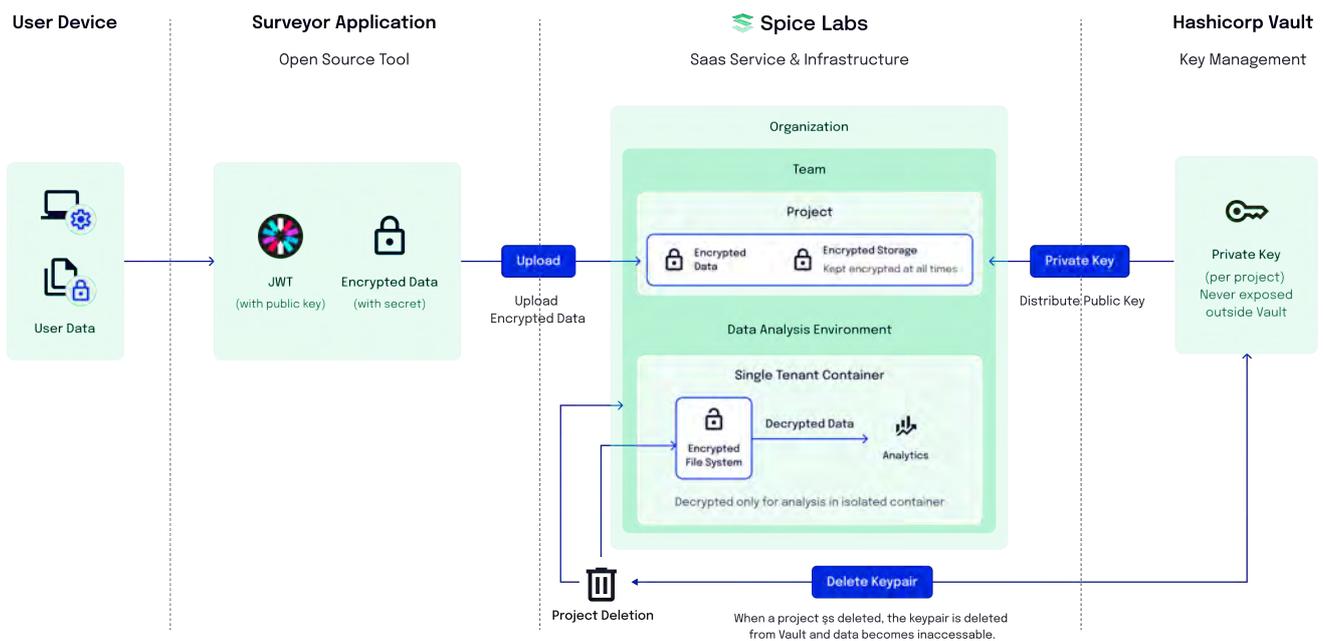
As part of the upload process, Surveyor encrypts the uploaded data with a secret and that secret is encrypted with the public key. Thus, the data can only be decoded with the Project's private key.

Data in Spice Labs' servers are kept encrypted with that key at all times except when it's decrypted onto an encrypted filesystem in a single-tenant container used for data analysis.

When a project is deleted from Spice Labs' systems, the keypair is deleted from Vault and the data becomes inaccessible.

This is how Spice Labs uses cryptography to segment data and ensure that user data stays only with that user.

## How Spice Labs Protects User Data



This is how Spice Labs uses cryptography to segment data and ensure that user data stays only with that user

# Differentiators

**01**

## Real Software Visibility

Scans real artifacts, not just build manifests

**02**

## Agentless & Fast

Runs without intrusive installs; results in minutes

**03**

## Provenance & Cryptographic Assurance

Results rooted in cryptographic integrity for compliance and audit confidence

**04**

## Legacy-Ready

Works where many SBOM and scanner tools fall short, especially in older JVM environments

## Companies today are operating systems that were built over years

- Cloud migrations layered on legacy.
- Containers on top of VMs.
- Open-source buried inside proprietary code.
- Teams changed, documentation disappeared.

### The Breaking Point We Saw

Security Tools Showed Alerts – But Not Reality.  
SBOMs Became Mandatory – But Incomplete.  
Spreadsheets tried to fill the gap.

Engineering teams were forced to rely on:  
Tribal knowledge, guesswork, manual audits.

Teams are drowning in:  
Alerts, tools, manual documentation, fire drills.

They don't want another dashboard.  
**They want clarity.**

Companies are spending billions on:  
Cloud migration, app modernization.

Legacy replacement yet 30-40% of these projects fail or overrun due to unknown dependencies.

Leaders are finally realizing:  
You can't modernize what you can't map.



# Where Spice Labs Creates ROI

Spice Labs replaces guesswork with cryptographic truth – giving leaders a system of record for deployed software.

↙ **20–50 %** Delivering a Reduction in Modernization & Migration Costs

## What it replaces:

- Manual discovery
- Spreadsheet-based estimates
- Inconsistent scoping across teams

## What it delivers:

- Accurate scope, timelines, and risk – automatically
- Standardized pricing and delivery inputs
- Faster, more confident proposals
- Data-driven compliance evidence

# Feedback from Our Customers

Visibility across software assets	→	Fewer surprises & tighter budgeting
Faster incident response	→	Lower breach costs & downtime
Better project scoping	→	Higher margins, fewer change orders
Measurable progress tracking	→	Data-driven decision making
Audit/compliance documentation	→	Regulatory risk reduction



# Spice Labs removes work instead of adding more.

Get Started for Free

Request a Demo

spicelabs.io

