Network Efficiency with **Sera**

Efficiency in **Simplicity**

Our Principle Hypotheses

1. A simple network is an efficient network.

2. An efficient network scales.

As long as these principles hold, Sera's mission remains <u>essential</u>.

01

Problem Statement

02

Sera Introduction

03

Product Demonstration

Problem Statement

Inefficient networks are draining resources and choking flexibility in organizations.

Large organizations are struggling with networks that are difficult to manage and slow to adapt. These complex systems require significant resources to maintain, making even small changes a challenge and hindering the organization's ability to stay agile.

Problem Statement Cont.

The Pain Points Stack Exponentially

Reactive Response

Network inefficiencies keep teams trapped in a cycle of constant firefighting.

Operational Bottlenecks

Complex networks lead to fragmented events, making them harder and slower to analyze.

Limited Innovation

Complex networks prevents the ability to quickly deploy new technologies or respond to market changes.

Problem Statement Cont.

Security Concerns

Increased Vulnerability to Attacks

Inefficient networks are more likely to have outdated or unpatched systems, creating security gaps, increasing the risk of downtime or sensitive information being exposed or stolen.

Inaccurate Event Logs

An inefficient network leads to a flood of inaccurate or irrelevant event logs, overwhelming the system and making it difficult for teams to analyze the data effectively.

Our **Purpose**

Sera is a network management framework that simplifies your operations by bringing all your tools together into one platform.

Sera takes the complexity out of managing network traffic, allowing you to easily deploy policies that matter.

helping you cut through inefficiencies while making your network faster and more secure.

Our Purpose Cont.

Sera Pillars

Visibility

Automatically document your network and gain real-time insights across your infrastructure.

Interoperability

Seamlessly connect and unify systems and tools. Enrich existing tools and simplify management.

Dynamic Policy

Easily deploy powerful and accurate policies across your network.
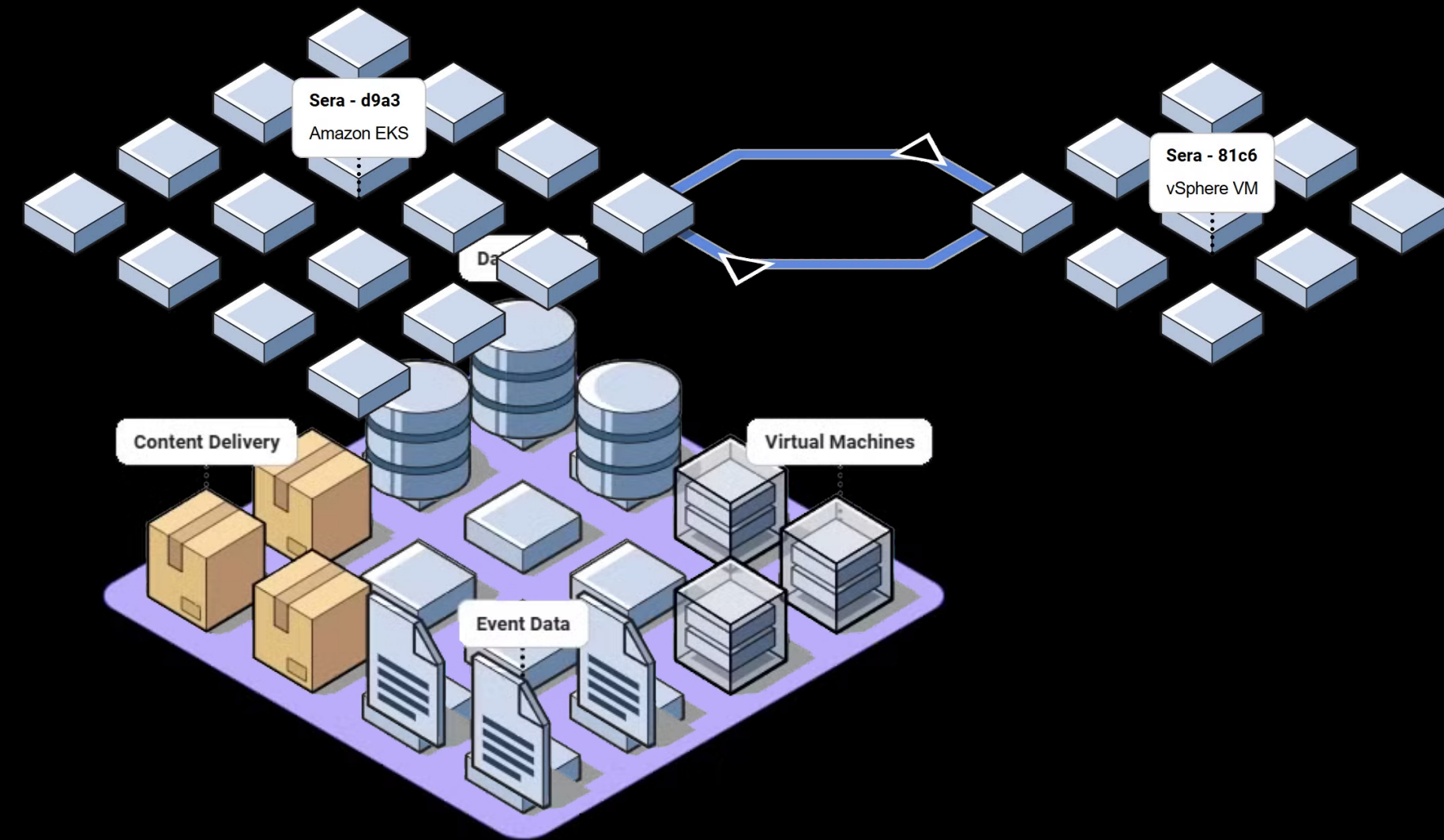
Sera Introduction

Scalable Framework

Optimized to maintain network silos while
enabling seamless interconnection
A simple way to keep an organized network
and deploy or remove toolsets
Building blocks to direct event and
network traffic
A shared environment for engineers
and admins to plan cohesively

Sera Introduction

Phases of Deployment

1. Transparency

Sera deploys as a proxy that will link and complete requests with minimal setup.
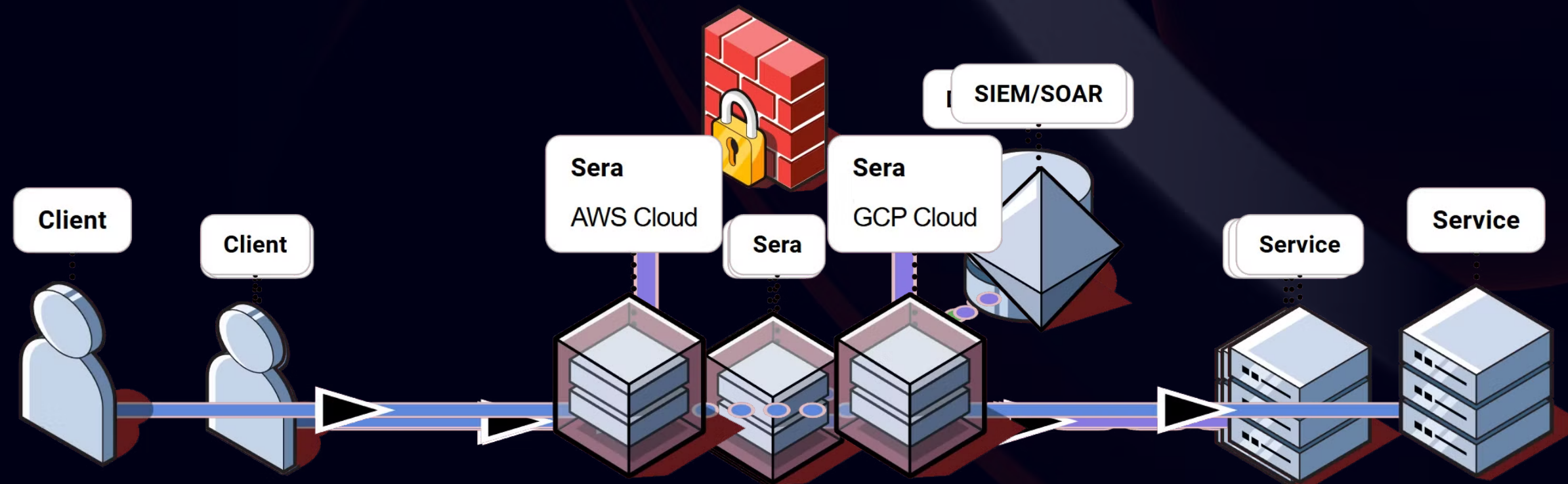
2. Data Routing

Sera begins routing data and artifacts to other tools from live traffic flow.

3. Inline Policy

Endpoint policies are developed to manage and manipulate the data in transit.

4. Network Mesh

Network traffic is securely handled and routed to other Sera instances

Our Purpose

Zero Trust Alignment

■ FUTURE STRATEGY

■ SERA CAPABILITY

■ SUPPORTED CAPABILITY

USER	DEVICE	APPLICATION	DATA	NETWORK	AUTOMATION ORCHESTRATION	VISIBILITY ANALYTICS
1.9 Integrated ICAM						
1.8 Constant Auth						
1.7 Least Privilege					**6.6** API Standardization	
1.5 Identity Federation					**6.5** Security Orchestrat.	
1.4 Privileged Access					**6.4** Artificial Intelligence	
1.3 Multi-Factor Auth				**5.4** Micro Segmentation	**6.3** Machine Learning	**7.4** User Behavior
1.2 Conditional Access		**3.5** Cont. Monitoring	**4.2** Data Encryption	**5.2** SDN	**6.2** Critical Process	**7.2** SIEM
1.1 User Inventory	**2.7** Endpoint Detection	**3.1** App Inventory	**4.1** Data Monitoring	**5.1** Data Flow Map	**6.1** Policy Decision	**7.1** Log All Traffic

Sera Introduction

DoD Network Intelligence Strategy

2023 DoD Data, Analytics, and AI Adoption Strategy

01

Knowledge Enhancement

- Data Collection and Structuring
- Initial AI-driven Insights and Decision-Making
- Data Accessibility and Sharing

02

Predictive Analytics

- Model Development
- Model Training and Validation
- Predictive Insights and Forecasting

03

AI Integration

- AI Deployment in Network Operations
- Scaling AI Solutions Across Systems
- Continuous Monitoring and Improvement

Product Demonstration

Let's walk through some use cases

USE CASE 01

Automated API Discovery with

Endpoint Detection

USE CASE 02

Creating a custom policy to create, enrich,

and export an event to an external tool

Our Purpose

Product Roadmap

| K8S DEPLOYMENT | DYNAMIC SSL | MANAGEMENT INTERFACE | LLM POLICY | INTERNAL EVENT ANALYSIS | DEFAULT POLICY TOOLKIT | ADDITIONAL INLINE SCRIPTING LANGUAGES |

Summer 2024   **Fall 2024**   **Winter 2024**   **Spring 2025**   **Summer 2025**

PRODUCT DEVELOPMENT   DESIGN PARTNER   GENERAL AVAILABILITY

This roadmap aligns with our commitment to consistent, community-driven development, ensuring each milestone is in sync with our open-source product available on GitHub.

Q&A

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