Cloud infrastructure orchestration.

Rarity is a cloud orchestration and management tool combining cost-saving cloud infrastructure with secure end-to-end automation. Lightweight and easy to use and administer, Rarity is a highly modular and secure data transport platform.

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**THE BASICS**

Rarity is a flexible, platform-agnostic, cloud-based attribution management platform that delivers simple, intuitive, and secure cloud orchestration. Rarity is based on customizable components, including a front-end server, UI, and plugins, revolving around a core engine that provides a uniform mechanism for managing nodes. Rarity can be deployed in both cloud service provider (CSP) and virtual private server (VPS) environments.

**FLEXIBLE MICROSERVICES DESIGN ALLOWS FOR MODULAR USE, RE-USE, AND CUSTOMIZATION**

- Scalable and dynamic
- Encrypted transport
- Lightweight, easily changeable components
- Robust security model
- Obfuscated or in-band command and control (C2)
- Segregated administration and operational use
THE STRUCTURE

Rarity uses Amazon EC2, Rackspace, Microsoft Azure, and VPSs to create transient virtual machines, or nodes. Rarity groups nodes created under a single CSP account into a cluster. Clusters are grouped into operations that share a common goal or use case. Rarity users create paths by choosing entry and exit node regions and specifying the number of hops in between. Network traffic is encrypted over common ports and protocols, emulating typical commercial usage. Rarity destroys nodes when they are no longer needed, reducing signatures for sensitive operations.

FEATURES & BENEFITS

• Enable safe, anonymized research into sensitive topics via transient web browsing.
• Strengthen security by using proxies to isolate Rarity administration from the cloud-based infrastructure it deploys.
• Greatly reduce platform signature by decoupling setup / control infrastructure from operational resources.
• Easily configure and customize the UI and business logic layer.
• Translate generic requests into CSP / platform-specific requests.
• Utilize dynamic path generation to continually change routes to the target.
• Customize the plug-in environment.