Silk for the Hybrid Cloud

The Silk Cloud Data Platform helps organizations accelerate the move to the public cloud and reduce the risk of running business-critical applications in cloud-agnostic environments, while delivering advanced agility, cost-efficiency, and performance SLAs regardless of where the workloads run. With the boundaries between private and public cloud blurring, Silk offers the capability to implement on-premise or any major public cloud platform, including AWS, Google Cloud Platform, and Microsoft Azure.

Silk Architecture

Silk’s mesh architecture enables users to introduce new compute and capacity resources as needed and on the fly. Private cloud resources are automatically introduced into Flex after being installed. In the public cloud, Silk spins up cloud resources which are then utilized as different components. Individual VMs act as controllers for performance, while a group of 24 virtual SSDs can be presented as capacity resources.

Silk VisionOS

Silk VisionOS turns the underlying public cloud infrastructure into the world’s most capable scale-out data virtualization and mobility platform.

DataShrink
Industry-leading data reduction including advanced compression and de-duplication.

DataProtect
Native clones and replication to return to any point in time. Data-at-rest AES256 encryption ensures data privacy.

DataManage
Intuitive web GUI, fully scriptable CLI, and a set of programmable RESTful APIs. SNMP and Syslog enable system data access for monitoring and reporting.

DataConnect
RESTful API for integration with external applications and frameworks (i.e., VMware vSphere and LogInsight, Microsoft VSS, OpenStack, and Kubernetes)
Silk Clarity
Silk Clarity delivers predictive analytics through a comprehensive set of management and monitoring functionalities including application-level intelligence, machine learning, and big data predictive analytics.

Silk Flex
Silk Flex delivers an on-demand ability to compose, optimize, manage, and decommission resources as needed to support SLAs.

Multi-System Management
A centralized cloud-based portal enables single pane monitoring of the hybrid cloud.

AIOPs-Driven IT
Predictive analytics, proactive resource monitoring, and self-healing capabilities.

Automated Case Management
Automatically initiate maintenance cases and ensures a seamless support experience.

Orchestrate Hybrid Platforms
Dynamically compose and orchestrate resources across the hybrid cloud.

Orchestrated Containers
Leverage the Silk RESTful API to dynamically request and provision resources.

Orchestrated Automation
Incorporating analytics from Clarity to automate resource management tasks based on a rules engine.

Performance and capacity details:

<table>
<thead>
<tr>
<th>Performance</th>
<th>Private Cloud</th>
<th>Public Cloud</th>
</tr>
</thead>
<tbody>
<tr>
<td>Max Performance</td>
<td>450K x N*</td>
<td>110K x N*</td>
</tr>
<tr>
<td>IOPs</td>
<td>5GB/s x N*</td>
<td>1.75GB/s x N*</td>
</tr>
<tr>
<td>Throughput</td>
<td>150μs</td>
<td>250μs</td>
</tr>
<tr>
<td>Latency</td>
<td>FC, iSCSI, NVMeOF</td>
<td>iSCSI</td>
</tr>
</tbody>
</table>

Host connectivity

*N – number of compute nodes

<table>
<thead>
<tr>
<th>Capacity</th>
<th>Private Cloud</th>
<th>Public Cloud</th>
</tr>
</thead>
<tbody>
<tr>
<td>Capacity (1:1)</td>
<td>Up to 240TB</td>
<td>Up to 80TB (Per Instance)</td>
</tr>
<tr>
<td>Media connectivity</td>
<td>100 Gb/s ROCE v2</td>
<td>iSCSI</td>
</tr>
</tbody>
</table>

Ready to get started? Visit www.silk.us to learn more about the Silk Cloud Data Platform.