Software Defined Infrastructure OS™

Cypherpath SDI OS natively brings together compute, virtualization, networking, and storage into an integrated scale-out stack for deploying private, hybrid and public software-defined infrastructures on bare metal hardware.

Infrastructures completely under the control of software allow IT teams to focus on the applications and services that propel business.

SDI OS™ Fundamentals

- **PRIVATE/HYBRID/PUBLIC CLOUD**
- **SCALE ON x86 HARDWARE**
- **SECURE ARCHITECTURE**
- **AUTOMATION & INTELLIGENCE**
- **ABSTRACTION LAYER**
- **MANAGEMENT INTERFACE & API**

**Speed, Agility, and Lower Costs**

Cypherpath encapsulates IT Infrastructure (Compute, Network, and Storage) in isolated software-defined infrastructures (SDIs). These SDIs can be easily run, stored, suspended, resumed, and transported between deployments. Multiple SDIs can run on the same physical server(s) without interfering with each other.

**Automated and Efficient SDIs**

Cypherpath provides automation of IT infrastructure within each SDI. All SDI components know about each other even if they have not been configured together. The system makes automated decisions based on specified infrastructure conditions and policies.

**Security for SDIs**

Cypherpath provisions SDIs independent of each other. This ensures that configurations in one SDI cannot affect another. The underlying commodity hardware resources are safely consumed concurrently.

**On-demand SDIs Wherever**

Each SDI can be check pointed at a specific time and stored in an alternative location. The system provides for easy security analysis, backups, and extreme infrastructure portability by managing infrastructure as a single file.

Software-Defined Infrastructures

- **Rapid deployment in under 10 minutes**
- **Reproducible Infrastructure**
- **Automated Infrastructure**
- **Collaboration**
- **Simple management**

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Public / Hybrid / Private Cloud

- One system for delivering repeatable and standardized infrastructure at scale composed of any workloads.
- Agility to meet any infrastructure requirements on-demand.
- Install to commodity hardware and run a SDIs in under 10 min.
- Built-in support for existing machine and disk images formats.
- Launch entire SDIs with the push of a button.
- Provide greater security and simplify infrastructure management.
- Focus on apps and services instead of infrastructure.

Infrastructure Sandbox / Cyber Range

- On-demand infrastructure to develop new solutions.
- Support testing, training, exercising, and play through scenarios.
- Copy, clone, import, export, share, and reset entire SDIs.
- Keep SDIs protected and running with checkpoints.
- Observe attack and defense scenarios in an isolated environment.
- Mitigate risk and ensure continuity with self-contained SDIs.
- Safely conduct forensics and malware analysis.

Development and Test

- Provide direct access to complex infrastructure on-demand.
- Reduce QA cycles by providing standardized SDIs.
- Enable Developers and Tester to deploy their own SDIs.
- Provide developer and QA collaboration by sharing SDIs.
- Accelerate delivery of new code/solutions by not worrying about the underlying infrastructure.
- Reduce costs by leveraging repeatable infrastructure.

Minimum Requirements

<table>
<thead>
<tr>
<th>CPU</th>
<th>RAM</th>
</tr>
</thead>
<tbody>
<tr>
<td>x86 64-bit processor with VT-x/AMD-V enabled</td>
<td>4GB or more</td>
</tr>
<tr>
<td>LOCAL STORAGE</td>
<td>SHARED STORAGE</td>
</tr>
<tr>
<td>32GB or more</td>
<td>NFS</td>
</tr>
</tbody>
</table>

Product Benefits

- 100% software
- Simplified IT and reduced risks
- Increased hardware efficiency
- Lower costs (CAPEX/OPEX)
- Scale as needed
- Support all infrastructure initiatives.
- Secure architecture
- Unmatched performance

Deployment Options

- Single node
- Multi-node Shared Storage

Next Steps

- Get started now at www.cypherpath.com
- Follow us on Twitter @Cypherpath
- Email info@cypherpath.com for more information