Software Defined Infrastructure OS™

The Cypherpath Software Defined Infrastructure OS (SDI OS) is a single distributed OS that abstracts IT infrastructure and applications into portable self-contained software-defined cyber environments (SDIs). Rapidly build, operate, and deploy cyber environments anywhere.

Increase your cyber resilience and improve your risk posture by becoming well acquainted with the threat landscape. Continuously train, test, exercise, and assess your cyber readiness.

SDI OS Fundamentals

- **Train, Test, Exercise, Assess, & Respond**
- **Scale on x86 Hardware**
- **Secure Architecture**
- **Automation & Intelligence**
- **Abstraction Layer**
- **Management Interface & API**

Train, Test, Exercise, Assess, and Respond

Cypherpath encapsulates IT Infrastructure into isolated self-contained cyber environments. These environments can be easily run, stored, suspended, resumed, and transported between deployments. Multiple environments can run on the same physical server(s) without interfering with each other.

Automated and Efficient Cyber Environments

Cypherpath provides automation of IT infrastructure within each environment. All environment 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.

Cyber Environment Isolation

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

On-demand Environments Wherever

The complete self-contained environment can be checkpointed at a specific time and stored in an alternative location. The system provides for easy security analysis, backups, and infrastructure portability by managing infrastructure as a single file.

Self-Contained Cyber Environments

- **Cyber Environment 1**
  - Compute + Network + Storage
  - Self-contained Software-defined Infrastructure
  - 100% Software | No Proprietary Hardware

- **Cyber Environment 2**

Rapid deployment in under 10 minutes

- **Rapid deployment in under 10 minutes**
- **Reproducible environments**
- **Automated environments**
- **Collaboration**
- **Simple management**
Use Cases

Train, Test, Exercise, Assess, and Respond
- 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 cloud in under 10 min.
- Hypervisor agnostic with built-in support for all popular formats.
- Launch entire cyber environments with the push of a button.
- Provide greater security and simplify infrastructure management.
- Focus on cyber scenarios instead of infrastructure.

Cyber 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 environments.
- Keep cyber environments protected and running with checkpoints.
- Observe attack and defense scenarios in an isolated environment.
- Mitigate risk and ensure continuity with cyber environments.
- Safely conduct forensics and malware analysis.

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

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

Minimum Requirements

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

SHARED STORAGE NFS

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