# Containerized Development Environment (CDE) Platform for DevSecOps

## DevX Secured: Reconcile Developers' Experience and Productivity With Enterprise Data Protection

*Keywords: Containerized Development Environments (CDEs), Developer Experience (DevX), Data Loss Prevention (DLP), Secure Single-Sign-On (SSO), Zero-Trust Architecture (ZTA), IT Cost Reduction*

| Reduce Cost of Managed Devices | Automate Security Controls' Compliance | Reconcile DevX with Data Protection | Automate DevSecOps Practices |
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The **Strong Network platform** accelerates code development by streamlining the use of data-secure **Containerized Development Environments (CDEs),** providing access to ready-to-use coding and data science environments. It focuses on **maximizing the developer's experience (DevX)** leading to higher productivity while securing against data and credentials leaks without impacting downstream DevOps or MLOps tools.

The platform delivers both client-side and back-end data loss prevention. It has a secure **single-sign-on (SSO)** mechanism for all data access that removes credentials from developers' workspaces and protects against leaks with GIT repositories, S3 data buckets and TCP/SSH/HTTP services on any public/private cloud and on-premise services.

In addition, it protects data in any app (GitHub, GitLab, Teams, etc) via SAML authentication and Remote Browser Isolation, preventing leaks of credentials and data.



**Figure** Strong Network's Platform lets you provision and manage secure containerized development environments at the Code stage
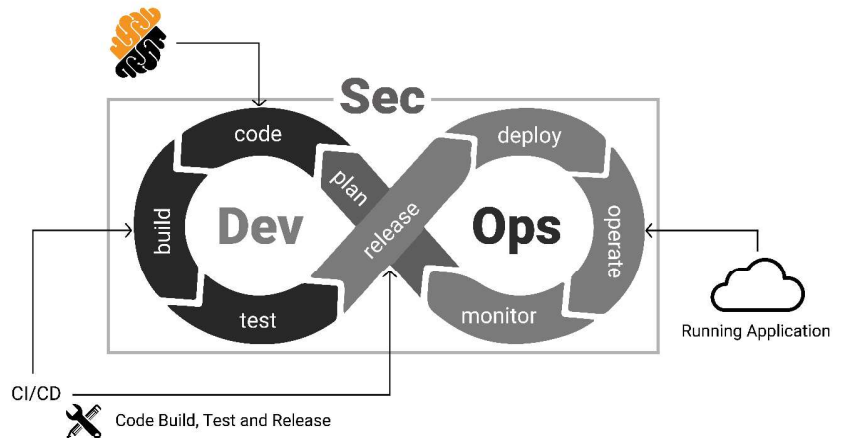
### Low IT Cost with CDEs

Enterprise management of CDEs enables fast scale up/down, accelerates code into production, and lowers the total IT cost to support DevOps cycle by 80%*.

### Data-Secure CDEs

We are the first to deliver secure development containers with Data Loss Prevention, SSO with credentials leak protection, Zero-Trust and all ISO 2700x risk controls.

### Real-Time Governance

Online and secure CDEs allow real-time visibility of the environments and their performance such that metrics are available without any agent on devices.

## Solution Adoption on Private Cloud or on Premises

### Self-Hosted Enterprise Solution

Installed on a private cloud controlled by the organization or on-premise, on top of a Kubernetes application. Services include enterprise-grade SLA with 24/7 online support.

Available on the following Cloud Providers:

aws · Azure · Google Cloud · HUAWEI CLOUD

* *See The Total Economic Impact™ Of Red Hat Services And Support For OpenShift - **May 2022**, Forrester Total Economic Impact (TEI) study.* **FORRESTER**

# Example Use Cases

## Reduce Cost of Managed Devices

Shipping laptops to outsourced or remote developers creates unnecessary complexity, ineffectiveness, and costs the organization. Adding security makes it even more difficult.

The Strong Network platform delivers via web secure CDEs accessible by your developers on any device or OS via standard Cloud IDEs with monitored (ZTA) access control to your resources.

## Automate Security Controls' Compliance

Achieving security controls' compliance across a development process is implemented with risk controls that might need numerous and costly tools.

The Strong Network platform provides implementations for all ISO 27001 risk controls for DevSecOps and compliance reports such that our clients achieve an immediate ROI when deploying the platform.

**Figure** The Strong Network platform architecture delivers "security-in-context" for a developer workflow, and combines a Cloud-delivered IDE with Remote Browser Isolation to access Web-based applications
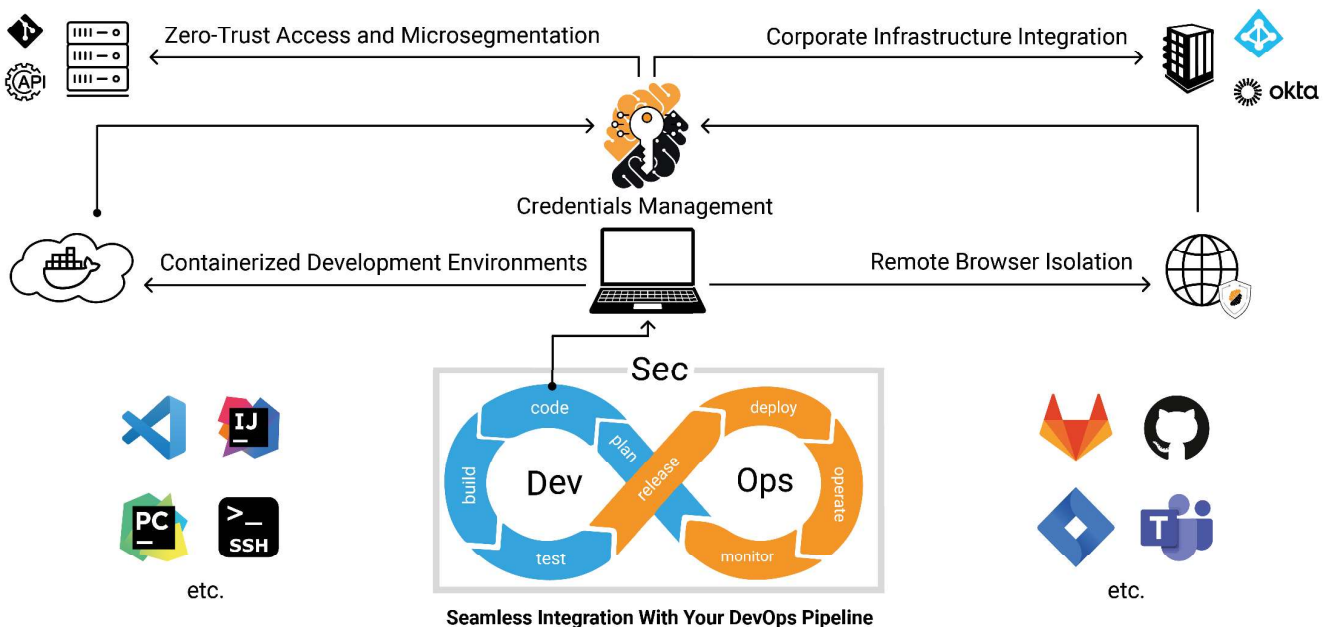


## Reconcile DevX with Data Protection

VDI solutions and Desktop-as-a-service (DaaS) remove data from laptops but results in poor developer experience (DevX), low productivity and mostly client-based, weak security guarantees.

Strong Network delivers a DevX-focused platform that provides superior data loss prevention with both client-based and back-end security that aligns with the entire DevSecOps process.

## Automate DevSecOps Practices

The use of online CDEs accelerates transitions between DevOps states and allows up to 80% IT cost reduction when provisioning the development environment.

The Strong Network platform is the only management platform for CDEs that provides infrastructure security with real-time data loss prevention, Zero-Trust access control and live audit capability for DevSecOps.