

# Stratus everRun™

Affordable, easy-to-manage software  
to support critical applications



## Overview

In today's highly competitive world, continuous availability of critical applications is a must-have. Penguin Solutions® Stratus everRun™ ensures that organizations can deliver top-notch services externally and internally 24/7/365.

The need for affordable, easy-to-manage software to support critical applications is pervasive across all markets and industries. Organizations understand that downtime creates significant risks, including financial loss and long-term reputational damage. It also poses challenges for regulatory compliance, disaster mitigation, and business continuity planning. In certain settings, such as healthcare and public safety environments, downtime can even endanger lives.



The Stratus everRun solution for P2000 offers us the extreme level of availability we need for our critical access control system at the airport.

### Rob Benstein

Public Safety and Operations Director  
Gerald R. Ford International Airport

## Key Features

- **Greater availability:**  
Continuous application availability and constant replication proactively reduce the risk of downtime with the added benefit of built-in virtualization.
- **Better protection:**  
Safeguards application environment against localized power failures, building-wide problems, and physical machine failures.
- **Improved performance:**  
Optimized resource utilization and reduced configuration complexity make it easier to fulfill business requirements.
- **Lower total cost of ownership (TCO):**  
Industry-standard infrastructure and flexible storage options reduce overall cost.

## What is availability?

Availability refers to how reliably a computing system can complete the tasks it was designed to perform. It is measured as the percentage of a given timespan that applications are operational and accessible to users.

Different solutions offer different levels of availability:

### Backups and restores

Basic backup, data-replication, and failover solutions and procedures do not prevent downtime but instead focus on recovering services in the event of a failure. These solutions typically deliver 99% to 99.9% availability, which translates to between eight hours and four days of downtime per year at a cost of between \$2M to \$23M.

### High availability (HA)

HA solutions tend to be implemented through clustering and deliver 99.95% to 99.99% availability (one to four hours of downtime per year). Although users perceive little or no interruption in the event of a failure, the downtime that results can cost between \$230K and \$1M.

### Continuous availability

With continuous availability, application operations proceed uninterrupted, and data are not lost if a failure occurs. Because these solutions focus on preventing downtime, they can deliver 99.999% availability (five minutes or less of downtime per year), which limits risk of costs incurred to \$23K.

## Achieve continuous application availability with Stratus everRun

Stratus everRun makes it easy to ensure that applications are continuously available. This software-based solution creates a single, highly available operating environment by linking two servers via a virtualization platform that pairs protected virtual machines (VMs). Stratus everRun replicates the entire application environment, including data in memory, so that applications can run without interruption or data loss. In the event that one physical machine fails, the other paired machine will continue to run the application uninterrupted. If a hardware component fails in one system, Stratus everRun can substitute the healthy component from the second system until the failed component is repaired or replaced.

## Optimize application environments for maximum availability

With Stratus everRun, applications are made continuously available without the configuration complexity of traditional solutions. Applications do not need to be designed to be HA-aware and there's no need to manage the connectivity between servers or configure shared storage where data resides. Stratus everRun enables users to consolidate physical servers, reducing operating costs while protecting applications against downtime. It supports a wide variety of commodity, Intel-based x86 server hardware.

## Optional Penguin Solutions products and services

Penguin Solutions offers a variety of options that extend and enhance Stratus everRun's capabilities:

- **Stratus everRun SplitSite™**: High availability or fault tolerance across a metro-wide area
- **Stratus everRun Extend™**: Disaster recovery across fault-tolerant sites connected via WAN

In addition, Penguin Solutions provides industry-leading service and support 24/7/365 worldwide. Our expert service professionals use our advanced technology to monitor, diagnose, and troubleshoot problems from Penguin Solutions Customer Assistance Centers (CACs) located across the globe. Should an issue arise, you'll be notified immediately via email, text, or SNMP alert.

## Recommended configurations for Stratus everRun

- One pair of industry-standard x86\_64 servers with Intel VT-enabled CPU chipsets
- RAM: 8 GB or more
- Disk space: 50 GB or more, plus 10 GB for VMs and data storage
- Two 10 GbE network ports
- Two 1 GbE network ports
- Supported guest operating systems:
  - Microsoft Windows Server
  - Linux

### Stratus everRun specifications

Servers	A variety of industry-standard x86 systems are supported. Please see <a href="#">Supported Hardware</a> page for more details.
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RAM	Up to 384 GB
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Virtual machines	Up to 28 machines
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### Supported operating systems

Microsoft®	A variety of Microsoft Windows Server and Desktop guest operating systems are supported. Please see <a href="#">Supported Guest Operating Systems</a> page for more details.
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Linux®	A variety of Red Hat, SUSE, Ubuntu, Oracle, and CentOS Linux guest operating systems are supported. Please see <a href="#">Supported Guest Operating Systems</a> page for more details.
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## Contact Us

For sales queries, please contact [sales@penguinsolutions.com](mailto:sales@penguinsolutions.com).

To learn more about Stratus everRun and other Penguin Solutions products, please visit: [www.penguinsolutions.com](http://www.penguinsolutions.com)