Stratus everRun®

Affordable, easy-to-manage software to support your always-on applications

If you were asked to come up with a list of applications that absolutely had to be continuously available, odds are that you would not struggle to build the list. Most likely, your list has grown over the last few years—and it continues to grow. At Stratus, we've seen the need for always-on applications become more pervasive across all markets, and all industries globally. But what's driving this demand? The obvious reasons are financial losses and long-term damage to an organization's reputation when businesses go down.

In today's competitive climate, organizations must operate and deliver top-notch services 24/7/365, externally and internally. If your service goes down in manufacturing, your lines cannot function and productivity and revenue take a hit; in building security and automation environments, the premises and individuals that need to be protected are at risk from internal and external threats; in healthcare and public safety, lives are at risk. And there are other considerations driving the need for continuously available applications, including the constant struggle organizations face to comply with regulations, mitigate disaster and plan for business continuity. All these factors contribute to an increasing demand for reliable, continuous availability of your most critical applications, with no tolerance for intermittent service disruptions and associated lost revenue.

What exactly is "availability"?

The term "availability" is a characterization of how reliably a computing system can function and perform the tasks it was designed to run. It is measured as a percentage of time within a given time span (for instance, a year) that your applications are operational and accessible to users. But not all availability is created equally. Different solutions provide different levels of availability:

- **Backups and restores**: Basic backup, data-replication, and failover solutions and procedures are in place to recover services in the event of a failure or disaster. These solutions

Key benefits

- Proactive risk avoidance with constant replication to prevent downtime
- Protection against localized power failures, building-wide problems or physical machines failures
- Satisfied business requirements and optimized resource utilization
- Continuous application availability without configuration complexity
- Low TCO through industry-standard infrastructure and flexible storage options
- Downtime eliminated with the added benefit of virtualization

do not prevent downtime but focus on recoverability which translates into 99% to 99.9% availability. Being down from 8 hours to 4 days can cost from $2M to $23M.

- **High availability**: Typically implemented through clustering, these solution applications are accessible a very high percentage of the time. Users perceive little or no perceived interruption if there is a failure and high availability translates into 99.95% to 99.99% availability. Being down from 1 to 4 hours can cost $230K to $1M.

- **Continuous availability**: Even if there were to be a failure, application operations are not interrupted. Downtime is eliminated and data is not lost in the event of a failure or localized disaster. These solutions focus on preventing downtime which translates into 99.999% availability. Being down 5 minutes or less, limits your risk to $23K.

"The 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

Achieve continuous application availability with everRun

Stratus everRun simplifies the process of making applications available—not just some of the time, but all of the time. everRun's software based solution links two servers together via a virtualization platform that pairs protected virtual machines to create a single operating environment. The entire application environment, including data in memory, is replicated by everRun, ensuring applications continue to run without interruption or data loss. If one physical machine should fail, the application continues to run on the other physical machine without any interruptions or data loss. If a hardware component fails, everRun substitutes the healthy component from the second system until the failed component is repaired or replaced.

Optimize application environments to achieve maximum availability

With everRun, you are able to realize the value of continuously available applications without the configuration complexity that comes with traditional solutions. There is no need to design your applications to be HA aware, or to manage the connectivity between servers or configure shared storage where data resides.

everRun enables you to consolidate physical servers and reduce your operating costs while protecting your applications from downtime. everRun supports a wide variety of commodity, Intel-based x86 server hardware.

Optional Stratus products and services

Stratus offers a variety of options to both extend and enhance everRun's capabilities.

everRun SplitSite – high availability or fault tolerance across a metro-wide area

everRun Extend – DR across fault tolerant sites connected via WAN

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

Recommended configurations for everRun

- One pair of industry standard x86_64 servers with Intel VT enabled CPU chipsets
- 8 GB RAM or more
- Disk space of 50 GB or greater, plus 10 GB for VM and data storage
- Two 10 GbE network ports, two 1 GbE network ports
- Supported guest operating systems
  - Microsoft® Windows Server®
  - Linux

everRun specifications	
Servers	1-2 socket Intel® Ivy Bridge, Sandy Bridge, Haswell, Broadwell, Skylake, Cascade Lake or Kaby Lake x86 servers
RAM	Up to 384 GB
Virtual machines	Up to 28
Supported operating systems	
Microsoft®	A variety of Microsoft Windows Server and Desktop guest operating systems are supported. See Compatible Guest Operating Systems page for more details.
Linux®	A variety of Red Hat, SUSE, Ubuntu, Oracle and CentOS Linux guest operating systems are supported. See Compatible Guest Operating Systems page for more details.

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