

THE ANVIL!

INTELLIGENT AVAILABILITY PLATFORM



TRUSTED AVAILABILITY

- Network Edge
- Micro Data Center
- Data Center



The Perfect Solution

For Imperfect Conditions

CLOSING ALL THE GAPS

To close all the gaps and to ensure that your infrastructure is configured for optimal performance in your mission critical IT environment, we developed the next evolution of high availability - Intelligent Availability (IA). We based IA on our high availability technologies, extensive validation performed by our development team and the accumulated experience of customers who have deployed mission critical applications on our availability platform.

The Intelligent Availability approach simplifies the system landscape, cuts operational costs and substantially improves server availability. And it does this in a way that other availability solutions just can't.

Unmatched Reliability

Predictable Performance

THE Anvill

We applied those Intelligent Availability principles to develop our Anvill platform which leapfrogs other availability solutions. It combines redundant hardware components, synchronous data replication and intelligent software to manage fault detection and correction without human intervention. The Anvill provides unmatched reliability and predictable performance.

Robust and Flexible Architecture

Our redundant, fault-tolerant system architecture is designed with everyday commercial quality hardware. From the power up to the servers, if any part of the system suffers a fault, there is a redundant part that can cover for the fault and avoid a system failure.

Safeguard Critical Data

While hardware HA is a critical component of system HA, it isn't nearly enough to keep your systems available. It's got to be integrated with effective replication software.

Our software defined replicated storage synchronously mirrors data between the server hosts. It's a powerful tool that allows you to build resilient, highly scalable and flexible storage architectures.

Keeping Up With Uptime

LEAVING NOTHING TO CHANCE

Continuous availability of mission/business critical applications is one of the most important attributes of any successful organization. A well designed high availability (HA) solution ensures that IT resources and their supported applications are always available.

As new architectures and technologies - from Cloud to SAN - are introduced to supplement traditional server platforms, significant availability gaps are appearing which can threaten operational continuity.

Many intelligent features come together to deliver this comprehensive and enhanced availability including:

- Easy Configuration
- Predictive Failure Analysis
- Proactive Fault Mitigation
- Automated Failover
- Self-Healing
- Autonomous Operation

When it comes to reliability backed by proven technology, Intelligent Availability is the perfect solution for imperfect conditions.



System Design
Consistent, Redundant



Data Protection
Synchronous Replication



Intelligent Software
Fault Detection and Correction

Nothing should be left to chance that can be made certain. Downtime carries real operational and financial cost for any organization running mission-critical systems. For continuous operations and rapid recovery from problems, both the data and the server must be fully protected.

Exploiting new and innovative technologies will close all the availability gaps and create IT infrastructure that is more reliable, resilient and always available.



Intelligent Software Agents

Rounding out the Anvill fortress of resiliency are the fault detection and recovery mechanisms central to our ScanCore intelligent software. It makes the system self-managing and is fully integrated with the redundant hardware stack and resilient storage to keep applications always available.

ScanCore launches a suite of intelligent software agents that capture and interpret data sensed from its infrastructure environment. ScanCore transforms the data - without any human intervention - into decisions that mitigate against any interrupt threat, ensuring continuous uptime.

These decisions are made intelligently and autonomously by the software and cover common failure events including:

Cooling System Breakdown - Naturally sheds thermal load to keep system running longer during cooling failure.

RAID Crash - VMs move autonomously from failed node to the node on which the data was synchronously replicated.

Power Supply Failure - Seamlessly failover to the redundant power supply without interrupting the normal use of the system.

Motherboard Malfunction - The failed node will gracefully shut down and then the VMs will recover on the surviving node.

The Anvill Advantage



ENGINEERED FOR UPTIME

Improved continuity and predictable performance, built on fully redundant architecture.



SIMPLIFIED ADMINISTRATION

System thinks and acts for itself without any manual intervention.



LOWER COST OF OWNERSHIP

No licensing costs, lower staffing needs, built on COTS hardware.



FLEXIBLE PLACEMENT OPTIONS

Install Anywhere - suitable in data center, on premise or remote location.

What's The Difference?

HA	vs.	IA
HIGH AVAILABILITY		INTELLIGENT AVAILABILITY
Optional Stack Redundancies Vulnerable to single points of failure that could render entire system unavailable or unreliable.	REDUNDANCY 	Top-To-Bottom Redundancy Any infrastructure component can fail without causing a disruption.
Reactive Reliant on system administrator. Emphasis on failure and recovery in shortest time possible.	CAPABILITY 	Proactive Intelligent software discovers, diagnoses and acts to prevent disruptions.
System Administrator Inconsistent system design and operating practices lead to potential for human error and downtime.	ADMINISTRATION 	Self-Managing System adapts to dynamically changing conditions. Overcomes complexity of manual system administration.

Deploy Anywhere

MICRO DATA CENTER • ON-PREMISE • IN THE FIELD



We Are Known By The Company We Keep

"When it comes to reliability and support, our expectation for excellence could not be any higher. Alteeve and The Anvil! have met those expectations in delivering the reliability and support that we have come to rely on."

Ovais A. Vaid
Director of Technology
Vision Essentials by Kaiser Permanente

"The Anvil! platform is outstanding and the robustness of the system can withstand all of the common errors, accidents or hardware failures that might occur in a server room."

Stephen W. Clarke
Information Technology Officer
Nray Services Inc.