



KiZAN Technologies

Application Reliability Engineering-1 week workshop

Who We Are



Founded in 1991 to help companies implement business solutions using Microsoft Technologies.

- Workplace Flexibility Award Winner
- Best Places to Work Award Winner
- 1995 First Global Partner of the Year
- 2012 and 2013 Heartland Partner of the Year
- 2014 VTSP of the Year for Heartland District
- 2015 Microsoft Central Region Seller of the Year
- 2016 Microsoft Partner of the Year Great Lakes Region
- 2019 MS US Partner Award for Industry Automotive

Gold-Certified National Microsoft Partner

We create "Raving Fans" by building relationships one at a time

Our Customers











































































CHURCHILL DOWNS







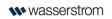


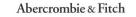










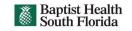














proofpoint.

Our Certifications









Business Drivers



Challenges

- Outages without known causes
- Unreliable releases
- Lack of self-healing
- Lack of appropriate alerting
- Lack of appropriate scaling
- Environmental drift
- Ineffective or non-existent disaster recovery plan

Ideal Solution

- Will effortlessly failover
- Will have self-healing measures
- Will have the right level of monitoring
- Will have appropriate CI/CD
- Will have efficient cloud architecture

Desired Outcome

- Take advantage of the scale and flexibility of the cloud
- Gain agility in production
- Reduce firefighting
- Reduce the cost of failure





 KiZAN provides a comprehensive approach to achieving the appropriate level of reliability for cloud-based systems by defining achievable reliability targets for a given workload, enhancing the workload with the appropriate tools, and preparing staff on how to respond to inevitable failures.





Conduct reliability analysis workshop for a chosen workload

Weekly Agenda:

- Day 1: Identify current perceived challenges
- · Day 2: Review the current architecture
- · Day 3: Review the current monitoring outputs.
- · Day 4-5: Stress testing and simulated failures

Workshop Details



- Reliability Analysis Workshop (RAW):
 - · Gather current perceived challenges for APP-X
 - Review current architecture of APP-X
 - Review current monitoring outputs for APP-X
 - Conduct simulated failures and stress tests of APP-X
 - · Workshop to identify "How can we break App-X" and "What do you think will happen when we break it in a particular way"
 - · Create failures based on above workshop for App-X in an environment as close to production as possible and document "What actually happened"
 - · Return application state to normal
 - Conduct post-mortem analysis of APP-X
 - · Rationalize "What actually happened" with "What we thought would happen"
 - · Produce recommendations based on above activities; show potential ROI





Conduct reliability analysis workshop for a chosen workload

Outcomes:

- · Your organization will have a defined path forward to reduce application outages
- · A detailed list of application enhancements will be documented
- · Appropriate levels of monitoring and alerting will be identified (utilizing resources such as Azure Monitor and Azure Health Service)
- · An effective disaster recovery plan for the application will be detailed