# Stop Disruptions Before They Happen: Your Cloud Resiliency Checklist

# The Need for Cloud Resiliency is on the Rise

Organizations are constantly facing changes to IT infrastructure, devices, data, and regulatory compliance measures. This requires a proactive approach to IT, so that sensitive information is safeguarded against vulnerabilities and that data is secure. Ensuring Cloud resiliency can help organizations overcome disruptions, such as cyberattacks, natural disasters, and other unforeseen business disruptions.

### What is Cloud Resiliency?

Cloud resiliency is the process of foreseeing possible disruptions to technology services at a business. It also involves planning for business continuity, as well as how the technology systems will recover with speed and without data loss.

Cloud resiliency is paramount to keeping businesses agile to address vulnerabilities, so that they're protected while ensuring business continuity and growth.

**According to Statista, cybercrime will only grow in the coming years, with experts anticipating the global cost of cybercrime to triple from $8.44 trillion in 2022 to $23.84 trillion by 2027.**

### Why Cloud Resiliency is Important

Cloud resiliency is paramount for businesses in today's digital landscape to ensure uninterrupted operations and mitigate risks associated with downtime and data loss. Unlike traditional on-premises infrastructure, cloud environments offer inherent resilience through distributed architecture, redundancy, and automated failover mechanisms. Cloud resiliency enables business continuity by keeping business flowing, no matter the scenario. We live in an era where a pandemic created the need for a remote workforce, but need and ability for employees to work remotely and securely is now forever necessary for a successful business.

Cloud platforms distribute data across multiple servers and data centers, reducing the risk of a single point of failure. This redundancy ensures that if one server or data center fails, services can seamlessly transition to alternative resources without disruption to business operations. Continuously stress testing your IT infrastructure and planning for disasters – both natural and digital, can ensure resiliency for your business. Thrive's Cloud Platform is based on HPE's Enterprise-grade infrastructure to deliver the highest level of performance and security. This includes HPE's Silicon Root of Trust technology making an immutable fingerprint in the silicon that provides advanced levels of protection against firmware attacks.

Cloud providers implement robust disaster recovery and backup solutions, automatically replicating data across geographically dispersed locations. This safeguards against data loss caused by hardware failures, natural disasters, or cyberattacks, enabling swift recovery and minimal downtime. Moreover, cloud services offer scalability and elasticity, allowing businesses to dynamically adjust resources in response to fluctuating demand or unexpected events. This flexibility ensures that organizations can maintain performance and availability during peak loads or sudden spikes in traffic.

# A Checklist for Success

This checklist is designed to help your organization achieve cloud resiliency. Completing these recommended steps, along with partnering with IT experts, like Thrive, will put your organization in the best position to succeed.

- [ ] **Data Backup and Replication:**
  - Implement regular backups of critical data and configurations.
  - Utilize geographically distributed data replication to ensure data integrity and availability.

- [ ] **Disaster Recovery (DR) Plan:**
  - Develop a comprehensive DR plan outlining procedures for various failure scenarios.
  - Regularly test the DR plan to ensure effectiveness and readiness.

- [ ] **Monitoring and Alerting:**
  - Implement robust monitoring tools to track performance metrics, resource utilization, and system health.
  - Configure alerts for threshold breaches and critical events to enable proactive response.

- [ ] **Fault Tolerance Testing:**
  - Conduct regular fault tolerance tests to identify weaknesses in the system.
  - Simulate failure scenarios to validate the effectiveness of resilience measures.

- [ ] **Regular Updates and Patch Management:**
  - Stay current with software updates and patches to address vulnerabilities and improve stability.
  - Implement automated deployment pipelines for seamless updates.

- [ ] **Documentation and Training:**
  - Maintain up-to-date documentation of the cloud infrastructure, configurations, and procedures.
  - Provide training for staff on resilience strategies, incident response, and disaster recovery procedures.

- [ ] **Incident Response Plan:**
  - Develop an incident response plan outlining steps to mitigate and recover from disruptions.
  - Define roles and responsibilities for handling incidents and communication channels.

- [ ] **Regular Review and Improvement:**
  - Conduct periodic reviews of cloud architecture and resilience strategies.
  - Incorporate lessons learned from incidents and tests to continuously improve resilience. Regular reiteration and maturing business's cloud and IT posture can set the tone for success in the future.

Investing in cloud resiliency not only safeguards against disruptions but also enhances agility, scalability, and overall business continuity. By leveraging the inherent capabilities of cloud infrastructure, businesses can minimize risks, optimize performance, and confidently navigate the complexities of today's digital ecosystem.

# Contact the Thrive Team

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# About Thrive

Thrive delivers global technology outsourcing for cybersecurity, Cloud, networking, and other complex IT requirements. Thrive's NextGen platform enables customers to increase business efficiencies through standardization, scalability, and automation, delivering oversized technology returns on investment (ROI). They accomplish this with advisory services, vCISO, vCIO, consulting, project implementation, solution architects, and a best-in-class subscription-based technology platform. Thrive delivers exceptional high-touch service through its POD approach of subject matter experts and global 24x7x365 SOC, NOC, and centralized services teams. Learn more at www.thrivenextgen.com or follow us on LinkedIn.