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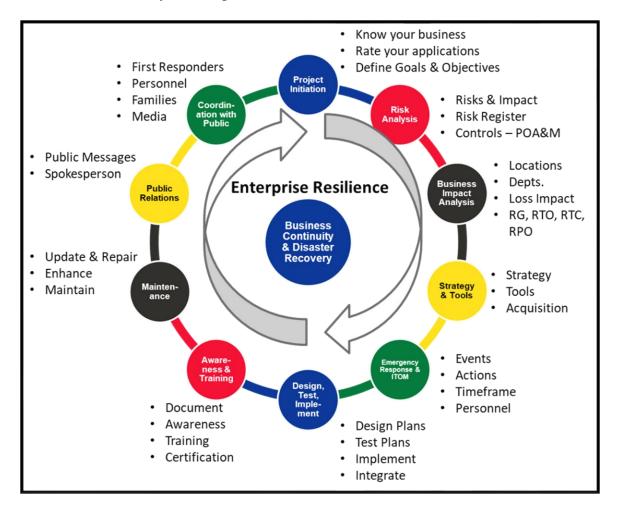
Website: https://www.dcag.com

Executive Framework: 10-Step Disaster Recovery and Business Continuity Program

By: Data Center Assistance Group, LLC (DCAG)

Objective: Establish a comprehensive, sustainable, and measurable program to ensure enterprise resilience, stakeholder confidence, and regulatory alignment through proactive continuity planning.

The Disaster Recovery Ten-Step Process.



1. Project Initiation and Management

Goal: Launch a governed, resourced program to ensure alignment with organizational priorities and oversight from inception.

• Key Actions:

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- Charter signed by executive sponsor.
- Steering committee established.
- Project plan approved with milestones, KPIs, and resource assignments.
- **Results Tracking:**
 - Executive dashboard (milestone status, budget, risk log)
 - Bi-weekly status reports
 - RACI matrix for accountability

Get to know the company and establish a direction.

Know your company:

- 1. Most Important Applications & Services (Family Jewels).
- 2. BIA to Define the damage caused if lost and maximum duration of survival without the application or service.
- 3. Define Requirements, Scope, Risk, Security, DevSecOps, Testing, Recovery, Acceptance, Deployment, and ITSM, ITOM.
- 4. Define Audit Universe implement legal & auditing functions.
- 5. Define Ideation, Brainstorming, Collaboration, to Concept
- 6. Implement Systems Engineering Life Cycle (SELC) to respond to new ideas or business opportunities.
- 7. Implement Systems Development Life Cycle (SDLC) to deploy new products and services.
- 8. Define Company Organization to respond to cybersecurity and technology problems in a timely manner to the appropriate authorities (i.e., SEC Rule 2023-139)

Know your Environment:

- 1. Physical and Data Security (Data Sensitivity & Data Flow).
- 2. Architecture and engineering process.
- 3. Asset Inventory and Configuration Management.
- 4. Identify and Access Management.
- 5. GRC based compliance and attestation, CIA based cybersecurity and elimination of viruses and malware.
- 6. Development and implementation of DevSecOps.
- 7. Personnel Titles, Job Functions and Responsibilities, and the integration of sensitive and required services within their everyday work tasks.
- 8. Staff training and development.
- 9. Continuous Monitoring and Improvement, along with the adoption of new technologies and processes (i.e., SRE).
- 10. Deploying error-free products and services (see EO 14028 and OBM M-22-18) and utilize the latest technologies to respond to encountered anomalies and verify compliance.

Set you direction:

- Most efficient, compliant, and secure production environment, capable of recovering from disaster events and providing continuous vulnerability-free products and services to customers. Continuity of Succession / Delegation of Authority must be included along with definition of duties.
- Integrate guidelines, standard Operating Procedures, skill development, and awareness throughout the organization.

2. Risk Evaluation and Controls Improvement

Goal: Identify, quantify, and prioritize organizational risk exposures and evaluate the effectiveness of current controls.

- **Key Actions:**
 - Risk Register with heat maps and scoring matrix.
 - Gap assessment against NIST 800-30 and ISO 31000
 - Control improvement recommendations documented and prioritized.
- **Results Tracking:**
 - Risk Register updates with ownership and mitigation timelines.
 - Monthly risk report to Risk Committee
 - Audit trail of control adjustments.

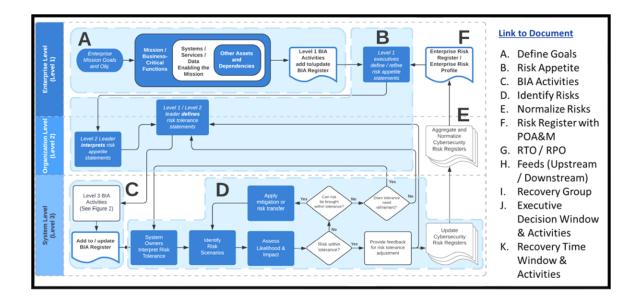
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3. Business Impact Analysis (BIA)

Goal: Establish recovery prioritization and resource needs based on critical business functions and dependencies.

- Key Actions:
 - Conduct BIA interviews/workshops.
 - Determine RTO, RPO, MTPD, and interdependencies.
 - Identify Tier 1–3 functions and applications.
- Results Tracking:
 - Executive BIA Summary Report
 - BIA heat map and dependency matrix
 - Signed executive acceptance of recovery priorities.

Performing a Business Impact Analysis



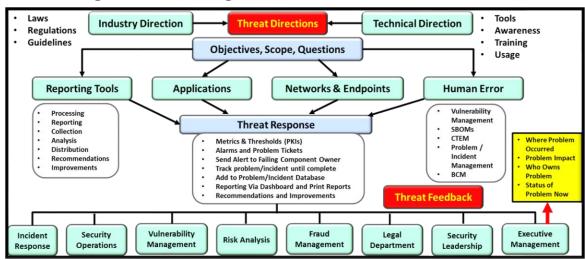
4. Developing Business Continuity Strategies

Goal: Define viable strategies to restore operations within business-defined tolerances.

- Key Actions:
 - Evaluate options (redundancy, outsourcing, cloud, etc.)
 - Develop cost/benefit scenarios.
 - Present strategy recommendations for executive leadership
- Results Tracking:

- Strategy Decision Matrix
- ROI model and strategic alignment metrics
- Board endorsement or approval.

Understanding Threats and taking corrective actions.



5. Emergency Response and Operations Restoration

Goal: Ensure rapid, coordinated emergency and restoration response capability to protect life, assets, and continuity.

- Key Actions:
 - Emergency Response Plan and team established.
 - Vaulting, backup, and restoration protocols validated.
 - Emergency communication systems evaluated.
- Results Tracking:
 - Quarterly emergency drills and response time metrics
 - Backup restoration time validation logs
 - Incident After-Action Review (AAR) reporting

Resilience Patterns and Recovery Groups

Resiliency Patterns	Single Region	Multiple Regions		
	In-Region	Active Standby (Pilot Ligt)	Active-Passive (Warm Stendby)	Active-Active (Multi-Site)
Pattern Profile	TRANSACTIONAL TRAFFIC - handled by primary region only No multi-region INFRASTRUCTURE APPULCATION code only available in single region Milti-region RECOVERY not supported	TRANSACTIONAL TRAFFIC - handled by primary region only INFRASTRUCTURE available on stand-by 3. APPLICATION provisioned, but in shutdown state	TRANSACTIONAL TRAFFIC - handled by primary region only NiFRASTRUCTURE available on standby Minimal APPLICATION footprint running in 2nd rerion (all components are spun up and available with min. capacity, where application)	TRANSACTIONAL TRAFFIC - handled by primary region only SINFRASTRUCTURE always available in both regions APPUCATION stack running active/active multi-region
Reserve Capacity			Required RESERVE CAPACITY	Required RESERVE CAPACITY
Cross-Region Maintenance	None	Maintain PERSISTENT DATA REPLICATION infrastructure APPLICATION CODE maintaned for currency in BOTH REGIONS Operate Production from stand-by region periodically	Maintain PERSISTENT DATA REPLICATION infrastructure APPLICATION CODE maintaned for currency in BOTH REGIONS Operate Production from stand-by region periodically	Maintain 2-WAY PERSISTENT DATA REPLICATION Z. APPLICATION CODE maintaned for currency in BOTH REGIONS 3. Operate Production from stand-by region periodically
Recovery Steps	1. ACQUIRE INFRASTRUCTURE 2. BUILD OUT infrastructure 3. DEPLOY application 4. RECOVER / RECREATE DATA 5. REDIRECT TRAFFIC to region 2	SCALE INFRASTRUCTURE STARTUP application FAILOVER TRAFFIC	AUTO- SCALE INFRASTRUCTURE FAILOVER TRAFFIC	RECOVERY acieved through automated redirect of traffic
Recovery Group (RG)	RG7	RG 4-6	REG 1-3	RG 0
Recovery Time Design (RTD)	Days+	Hours (<8 hrs)	Minutes (<15 mins)	Real-Time (<5mins)
Recovery Point Design (RPCD)	Hours (<8 Hrs)	Minutes (<15 mins)	Minutes (<15 mins)	Real-Time (< 0 mins)
Cloud Based Recovery	Group Specifications	Preferred Patterns		

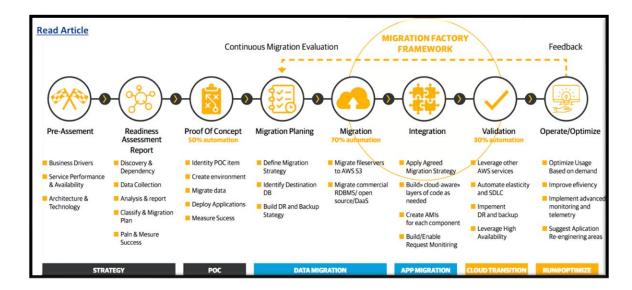
6. Designing and Implementing Business Continuity Plans

Goal: Develop actionable, function-specific recovery plans that are accessible, validated, and continuously improved.

- Key Actions:
 - Develop standardized templates (IT DRP, HR, Facilities, etc.)
 - Integrate contact rosters, escalation paths, and runbooks.
 - Implement plan versioning and access control system.
- Results Tracking:
 - Plan readiness scoring (completeness, currency, accessibility)
 - Annual sign-off by department leads.
 - Plan gap log with remediation tracking.

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Designing and executing Recovery Plans



7. Awareness and Training

Goal: Foster a culture of resilience by ensuring that all staff understand their roles in continuity and recovery.

- Key Actions:
 - Deliver training by role and department.
 - Embed awareness in onboarding and quarterly refreshers.
 - Run tabletop and scenario-based exercises.
- Results Tracking:
 - Training completion dashboard
 - Quarterly knowledge assessments
 - Executive awareness briefings delivered semi-annually.

8. Maintaining and Exercising Business Continuity Plans

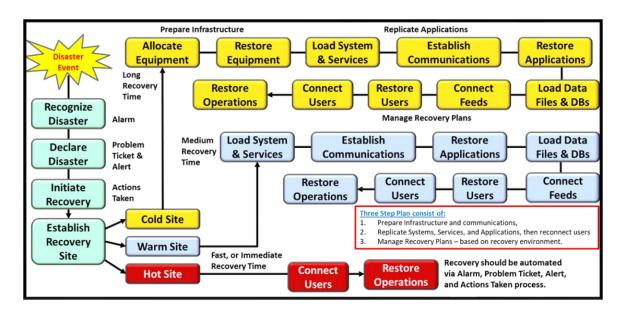
Goal: Validate recovery capabilities, identify improvement areas, and maintain executive confidence through testing and simulation.

- Key Actions:
 - Conduct testing program (tabletop, simulation, live drills)
 - Post-exercise review with corrective action planning
 - Annual review and certification of plans
- Results Tracking:

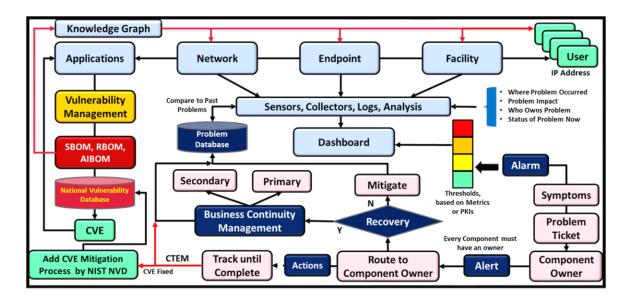
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- Evaluate success metrics (RTO achieved, participation levels)
- Corrective Action Plan (CAP) log
- Plan review schedule compliance.

Planning and executing recovery plans.



Tracking problems and initiating recovery operations



9. Public Relations and Crisis Communications

Goal: Manage stakeholder confidence and brand integrity through clear, timely, and credible communication during a crisis.

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• Key Actions:

- Crisis Communication Plan with pre-approved statements
- Assign trained spokespeople and media liaisons.
- Integrate legal and executive signoff workflows.
- Results Tracking:
 - Communications drill outcomes.
 - Message delivery metrics across channels (email, social, press)
 - Incident communications review and lessons learned.

10. Coordinating with Public Authorities

Goal: Ensure response and recovery actions are aligned with local, state, and federal authorities.

- Key Actions:
 - Register with FEMA, DHS, state emergency agencies.
 - Establish MOUs and response protocols.
 - Participate in joint simulations and incident coordination calls.
- Results Tracking:
 - MOU log and authority contact directory.
 - Joint exercise participation records
 - Emergency collaboration performance reviews

Program Governance and Reporting

Executive Oversight: Via Steering Committee chaired by CIO, COO, or CISO

Project Management Tools: MS Project / Asana / ServiceNow PMO Modules

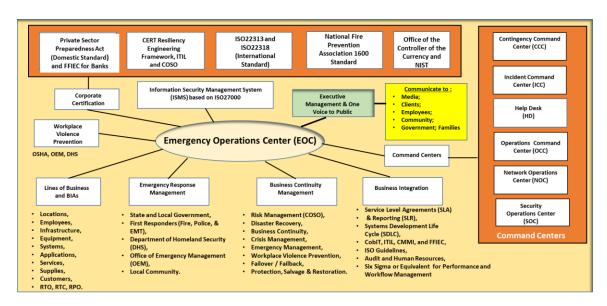
Reporting Cadence:

- - Weekly project status reports (WBS, milestones, risks)
- Monthly executive dashboards
- - Quarterly board briefings

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Emergency Operations Center



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