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

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Objective:

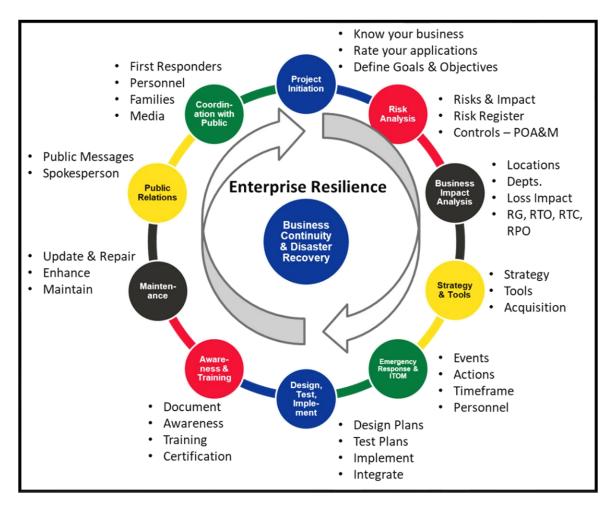
Establish a comprehensive, sustainable, and measurable program tailored to government agency operations, ensuring mission continuity, regulatory compliance, and public trust through proactive disaster recovery and business continuity planning.

Federal Compliance References Integrated:

- NIST SP 800-34 Rev. 1 (Contingency Planning for Federal Information Systems)
- NIST SP 800-30 Rev. 5 (Risk Assessment)

- FISMA, FedRAMP, PPD-40 (National Continuity of Government)
- FCD-1, FCD-2 (COOP Planning)
- FIPS 199 impact Levels and Mission Essential Functions (MEFs)
- <u>ISO 31000</u> (Descriptive video links)
- OMB A-130 standards (Managing Information as a Strategic Resource)
- <u>Secure by Design</u> guidelines (QWASP guidelines)

The Disaster Recovery Ten-Step Process.



1. Project Initiation and Management

Goal:

• Launch a governance-backed program aligned with agency mandates and mission objectives.

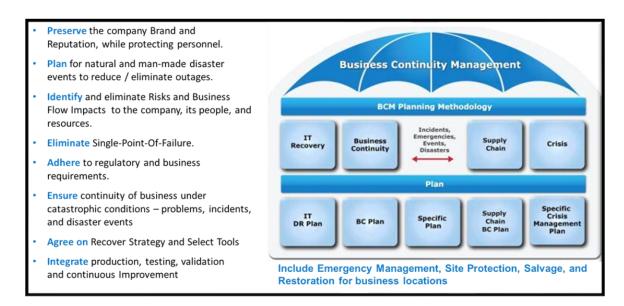
Key Actions:

- Executive charter signed by agency CIO or COO.
- Formation of a Steering Committee with CISO, COOP Manager, and key mission stakeholders.
- Program charter incorporates FISMA and COOP directives.
- Approved project plan with milestones, KPIs, and assigned resources.

Results Tracking:

- MS Project, Asana, or ServiceNow dashboards (PM Tools).
- Bi-weekly progress reports to the Steering Committee.
- RACI matrix for federal accountability (Responsible, Accountable, Consulted, and Informed).

Component contained within Business Continuity and Disaster Recovery



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Get to know the company and establish a direction.

Know your company:

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

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.
- GRC based compliance and attestation, CIA based cybersecurity and elimination of viruses and malware.
- 6. Development and implementation of DevSecOps.
- Personnel Titles, Job Functions and Responsibilities, and the integration of sensitive and required services within their everyday work tasks.
- 8. Staff training and development.
- Continuous Monitoring and Improvement, along with the adoption of new technologies and processes (i.e., SRE).
- Deploying error-free products and services (see <u>EO 14028</u> and <u>OBM M-22-18</u>) 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.
- 2. Integrate guidelines, standard Operating Procedures, skill development, and awareness throughout the organization.

2. Risk Evaluation and Controls Improvement

Goal:

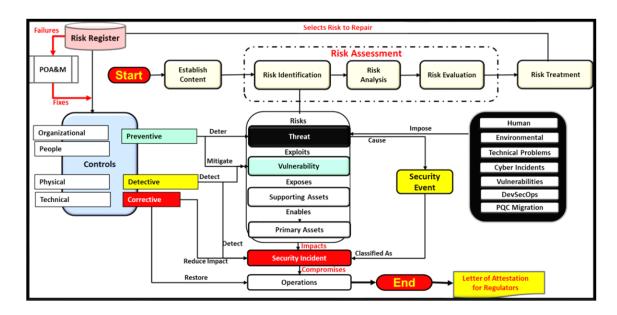
• Evaluate operational, information, and supply chain risks based on federal frameworks.

Key Actions:

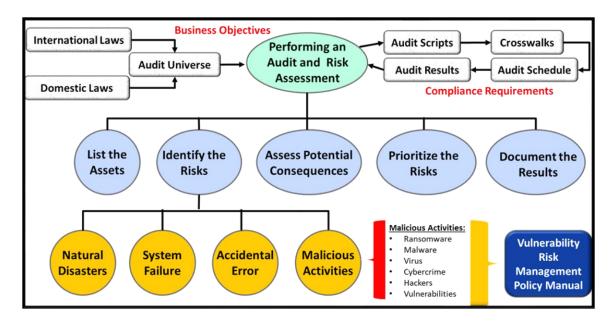
- Develop a Risk Register using NIST 800-30 scoring methodology.
- Map risks to FIPS 199 impact levels and mission-essential functions (MEFs).
- Prioritize control improvements using ISO 31000 and OMB A-130 standards.

- Heat map dashboards updated monthly.
- Risk Committee reviews and mitigation updates.
- Audit logs maintained for FISMA readiness.

Risk evaluation process and results.



Performing a Risk Assessment and Audit.



3. Business Impact Analysis (BIA)

Goal:

Quantify mission disruption and recovery needs by function.

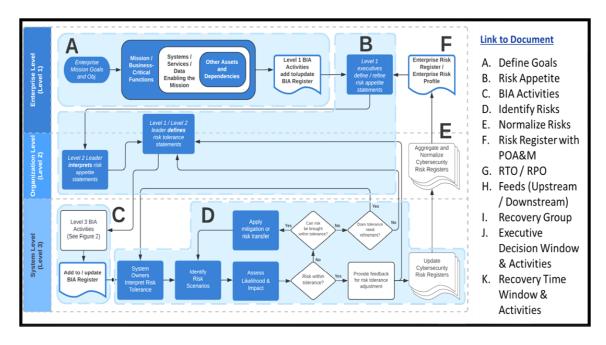
Key Actions:

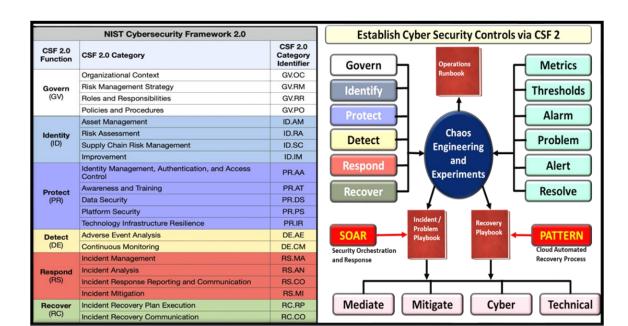
- Conduct interviews/workshops with MEF owners.
- Define RTO, RPO, and MTPD.
- Identify dependencies, shared services, and cloud vs. on-prem workloads.

Results Tracking:

- Executive BIA Summary Reports.
- Dependency matrix across agency components.
- Approval by executive sponsor.

Performing a Business Impact Analysis (BIA)





NIST CFS 2.0 Categories and Applications.

4. Developing Business Continuity Strategies

Goal:

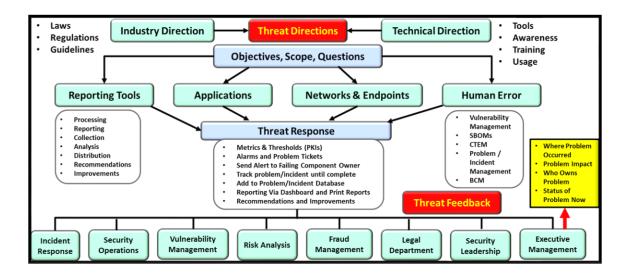
• Define and evaluate continuity strategies in alignment with federal guidelines.

Key Actions:

- Analyze COOP and alternate site options.
- Develop cloud-based and mutual-aid recovery scenarios.
- Evaluate costs vs. federal grant or budget alignment.

- Strategy Decision Matrix.
- ROI and OMB A-11 Exhibit 300 compliance.
- COOP Strategy approval.

Understanding Threats and taking corrective actions.



5. Emergency Response and Operations Restoration

Goal:

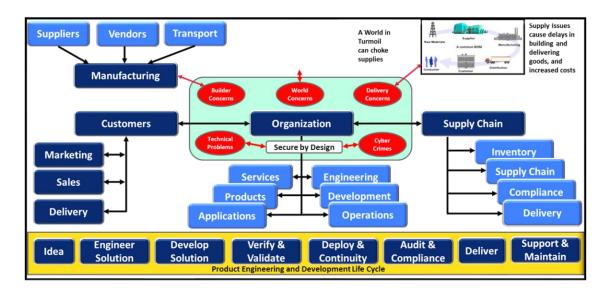
• Ensure rapid response capabilities, life safety, and infrastructure protection.

Key Actions:

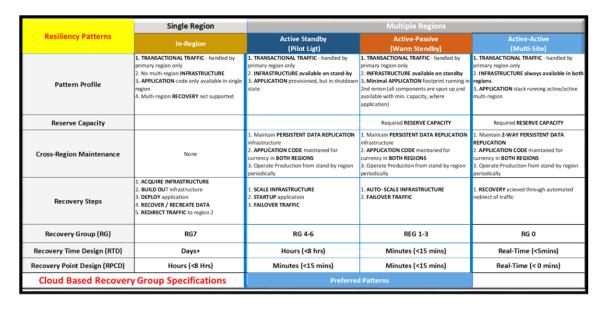
- Activate Emergency Operations Center (EOC) with ICS structure.
- Validate data vaulting and off-site backups.
- Coordinate with FEMA, DHS, and local responders.

- Response drill metrics.
- After-action reviews (AARs).
- FEMA grant and compliance checklists.

Protecting your organization is becoming more difficult.



Resilience Patterns and Recovery Groups



6. Designing and Implementing Business Continuity Plans

Goal:

• Document and maintain functional plans for recovery and compliance.

Key Actions:

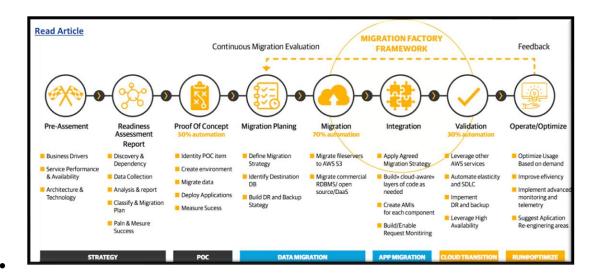
Use standardized templates for each department.

- Incorporate access control, escalation, and contact rosters.
- Maintain version control and audit logs.

Results Tracking:

- Plan completeness scoring.
- Annual FISMA reporting integration.
- Plan updates approved by division leads.

Designing and Implementing Disaster Recovery Plans



7. Awareness and Training

Goal:

• Embed continuity culture agency wide.

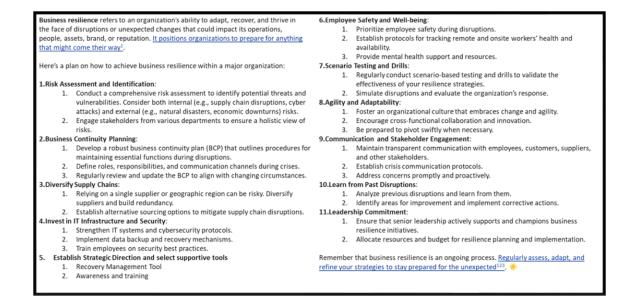
Key Actions:

- Deliver training tied to federal role-based guidelines.
- Integrate into onboarding and annual ethics/compliance programs.
- Conduct tabletop and Red Team exercises.

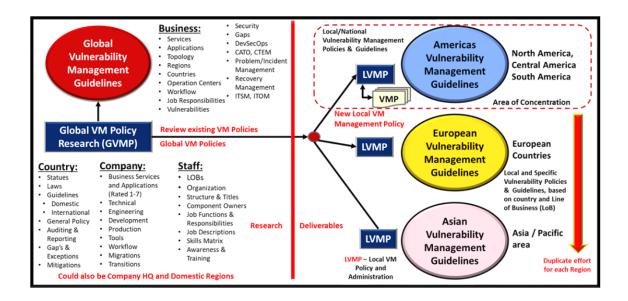
- Completion reports.
- Training dashboard for executive review.

Semi-annual executive awareness sessions.

Disaster Recovery Awareness and Training outline



Implementing Risk & Vulnerability Management with Continuity Services



Formalize guidelines for the entire enterprise and ensure they are integrated into the everyday functions provided by the staff.

8. Maintaining and Exercising Business Continuity Plans

Goal:

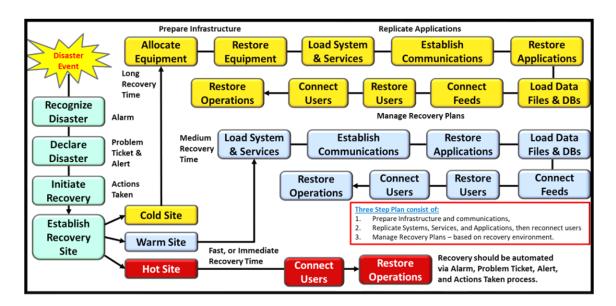
• Verify effectiveness and improve through continuous testing.

Key Actions:

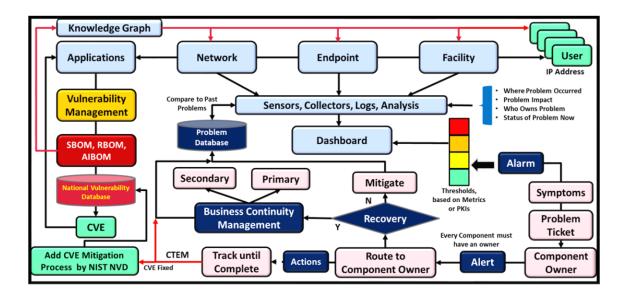
- Tabletop, simulation, and full-scale exercises.
- Incorporate COOP activation and relocation testing.
- Annual FCD-2 (<u>Federal Continuity Directive</u>) compliance assessments.

- Evaluate success metrics.
- CAP logs and resolution tracking.
- Plan to refresh schedule compliance.

Planning and executing recovery plans.



Tracking problems and initiating recovery operations



9. Public Relations and Crisis Communications

Goal:

Maintain public trust and transparency.

Key Actions:

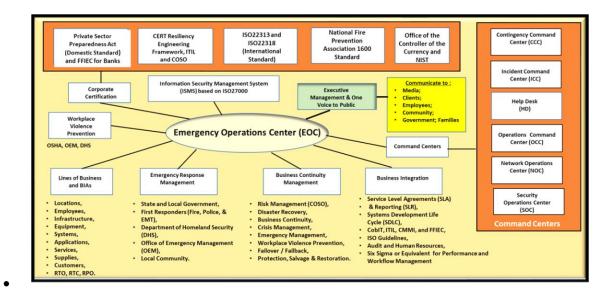
Crisis Communications Plan aligned with JIC protocols.

- Pre-approved statements were vetted through General Counsel.
- Coordination with Agency PIO and DHS.

Results Tracking:

- Message impact analytics.
- JIC participation logs.
- FOIA-compliance recordkeeping.

Emergency Operations Center



10. Coordinating with Public Authorities

Goal:

• Ensure response and recovery align with multi-agency and federal expectations.

Key Actions:

- Register with FEMA, DHS, state and regional emergency agencies.
- Sign MOUs with peer agencies.
- Participate in joint exercises and continuity calls.

Results Tracking:

• MOU repository and contact directory.

- FEMA and DHS exercise certification.
- Multi-agency incident AARs.

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Governance and Oversight

Steering Committee: Chaired by CIO, with participation from CISO, COOP Coordinator, Legal, and Ops.

Tools Used: MS Project, Asana, ServiceNow, FedRAMP-authorized PM tools.

Reporting Cadence:

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

Compliance Checks:

- Annual FISMA control assessments
- NIST 800-34 testing documentation
- COOP/FCD readiness scoring.

For additional information, or to discuss your needs, please contact us.

