**Disaster Recovery Runbook - EPH System**

**Document Control**

* **Document Owner**: John Doe (DR Manager)
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* **Revision History**:
* Version: 1.0
* Author: Jane Smith
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* Initial Draft

**1. Application Overview**

**Application Name**: EPH System  
**Environment**: Production

**2. Infrastructure Details**

**Primary Instance**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Server Role** | **Hostname** | **IP Address** | **Operating System** | **Ports** | **Owner** |
| Application Server | eph-primary01 | 192.168.3.10 | Linux RHEL 8 | 8080, 8443 | Alex Johnson |
| Database Server | eph-db01 | 192.168.3.20 | Windows Server 2019 | 1433, 3306 | Maria Lopez |
| Web Server | eph-web01 | 192.168.3.30 | Linux Ubuntu 20.04 | 80, 443 | Richard Kim |
| Load Balancer | eph-lb01 | 192.168.3.40 | Linux RHEL 7 | 80, 443, 22 | Kevin Wright |

**Secondary Instance**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Server Role** | **Hostname** | **IP Address** | **Operating System** | **Ports** | **Owner** |
| Application Server | eph-secondary01 | 192.168.4.10 | Linux RHEL 8 | 8080, 8443 | Alex Johnson |
| Database Server | eph-db-secondary1 | 192.168.4.20 | Windows Server 2019 | 1433, 3306 | Maria Lopez |
| Web Server | eph-web-secondary1 | 192.168.4.30 | Linux Ubuntu 20.04 | 80, 443 | Richard Kim |
| Load Balancer | eph-lb-secondary1 | 192.168.4.40 | Linux RHEL 7 | 80, 443, 22 | Kevin Wright |

**3. Communication Matrix**

|  |  |  |  |
| --- | --- | --- | --- |
| **Role** | **Name** | **Phone** | **Email** |
| DR Manager | John Doe | +1-555-123-4567 | john.doe@example.com |
| Application Owner | Alex Johnson | +1-555-987-6543 | alex.johnson@example.com |
| Database Owner | Maria Lopez | +1-555-234-5678 | maria.lopez@example.com |
| Network Administrator | Kevin Wright | +1-555-345-6789 | kevin.wright@example.com |
| Functional Tester | Richard Kim | +1-555-456-7890 | richard.kim@example.com |

**4. Recovery Procedure**

**Step 1: Disaster Declaration**

* Notify the DR Manager (John Doe) upon detecting a failure in the primary site.
* Verify the issue using monitoring tools.
* Trigger the disaster recovery plan if the downtime exceeds RTO (60 minutes).

**Step 2: Failover Activation**

* **Pre-Failover Validation**:
* Confirm data replication status between primary and secondary databases.
* Ensure all secondary servers are operational.
* Validate DNS readiness for secondary site.
* **Failover Process**:
* Stop primary application services.
* Update DNS to point to secondary site IPs:
* Application: 192.168.4.10
* Web: 192.168.4.30
* Start secondary application services.
* **Post-Failover Checks**:
* Verify application accessibility.
* Validate dependent systems (e.g., database, APIs).

**Step 3: Communication**

* Inform all stakeholders about the failover.
* Share expected timelines for recovery.

**Step 4: Post-Recovery Validation**

* Perform sanity tests on application functionality.
* Reconcile any discrepancies in data.
* Document observations and lessons learned.

**5. Dependency Mapping for EPH**

|  |  |  |  |
| --- | --- | --- | --- |
| **Dependent System** | **Direction** | **Dependency Type** | **Responsible Owner** |
| Authentication Service | Outbound | API Integration | Alex Johnson |
| BI Reporting Tool | Inbound | Data Feed | Maria Lopez |
| Core Banking | Bidirectional | API Integration | Richard Kim |

**6. DR Drill Schedule**

* Next Scheduled Drill: 15/01/2025
* Drill Scope: Full failover from primary to secondary site.
* Drill Duration: 4 hours.

**7. Post-Drill Documentation**

* Prepare a report summarizing:
* Time taken for failover.
* Observations and errors.
* Recommendations for improvement.
* Responsible: John Doe (DR Manager).