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| **SN** | **Risk Description** | **Severity** | **Likelihood** | **Risk Mitigation Plan** |
| **1** | Fail to obtain the required service levels set by the business: Zero downtime for the website on the Launch week | **Critical** | **High** | 1. Load balancing using multiple app servers on a single ec2 instance by serving the application on multiple ports. |
| **2** | Peak traffic flow may exceed server load capacity, resulting in longer response times/unsuccessful responses | **Critical** | **Medium** | 1. Load balancing using multiple app servers on a single ec2 instance by using ports. 2. Monitor traffic flow using Cloudtopus and AWS Cloudwatch, team will create more ports if there is a high consistent network packets incoming over a period of time. |
| **3** | Production server crashes during business hours and stops working. | **Critical** | **Low** | 1. Schedule for testing and maintenance on every Sunday. 2. Keeping daily backup of the website’s files (ec2 instance snapshot). If the site crashes, having a recent backup will ensure the site content will remain current. |
| **4** | Miscommunication during daily operations or maintenance | **Critical** | **Medium** | 1. Ensure instructions are clarified before proceeding with any important task like updating OS or configuration. 2. Ensure permission is granted by COO and IT operations manager for critical systems 3. Use layman english together with clear and concise writing during communications to avoid multiple interpretations |
| **5** | Quality not up to minimum standards during deployment / after change request / after disaster recovering | **Critical** | **Medium** | 1. 1.IT Operations manager , support manager as well as QA must constantly communicate to ensure the entire system is running smooth. 2. Ensure systems are above minimum standards to cater for performance variance. |
| **6** | Team did not follow process | **Critical** | **Low** | 1. Brief team about processes based on documentations 2. Ensure team follows processes based on documentations |
| **7** | Some documents might not be examined during document review. | **Critical** | **Low** | 1. Develop a document checklist for document review 2. Have both QA & IT Operations sign after reviewing each document |
| **8** | Fail to respond and resolve change request within expected timeframe. | **Critical** | **High** | 1. Set up ticketing system notification service 2. Brief team members on what to do when there’s a change request |