Recovery

A business can find itself in a disaster moment that crashes their entire system.

To recover the website for the KHBPA, Microsoft Azure site recovery can be used to recover the website itself. Microsoft Azure Resource Manager, as stated in the use cases, can be used for machine recoveries. Azure Site Recovery for customer owned sites costs $16 per month per instance of recovery protected. Azure Site Recovery to Azure sites costs 25 per month per instance of recovery protected. The site recovery is free for the first 30 days. According the Datto recovery analysis tool at the 500GB of data the KHBPA has, the downtime for two days would be $10,000.

Backups

Depending on the site domain used when producing the system will be a deciding factor in how the system can be backed up. WordPress has backup instructions online for their website. The application you can use on WordPress is called the UpdraftPlus WordPress Backup Plugin. Also, Wix has site history where you can see all changes made to the website created there. At any time you can recovery to a previous version.

Encryption

Azure storage service encryption for data at rest

Microsoft Azure has a few options for encryption. For the site data the Azure Storage Service Encryption can be used. This will automatically encrypt the data prior to storage and decrypt it prior to retrieval. It does encrypt Azure Resource Manager. Azure also includes transparent data encryption of the SQL database server.

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| Type of Requirement | Definitions | Examples |
| System Value Estimates | This is the estimated business value of the system and its data. | Downtime would cost about $5000 a day. |
| Backup Requirements | What needs to be backed up on the system, how often it should be backed up, the time it should be backed up, and what is going to be used to backup the system. | A backup should be scheduled every week through WordPress allowing for data integrity. |
| Recovery Requirements | What is going to be used to recover the system and how the recovery is initiated. | The system goes down, and through WordPress an old backup is recovered. |
| Encryption Requirements | Defines what data will be encrypted and what will be used to encrypt the data. | Data will be encrypted in order to keep safe from those without authentication to view. |