NIST cybersecurity framework

| **Function** | **Definition** | **Importance** | **Azure services and tools** |
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| Identity | Organisation can manage the cybersecurity issues in effective manner | This function helps the organisation to understand the processes which are occurring inside the organisation and then identify risk areas to control the risk effectively. | **Azure security centre:**It provides analytics of the resource inventory posture of the security.  **Azure policy:**It enforce the organisational policies and have to follow these policies  **Azure blueprints:** it helps with implementation and management of regularly following the policies.  **Azure resource graph:** It helps to identify risk by graphic view. |
| Protect | The safeguards ensure the delivery of critical services and it also protect the assets | It reduce the chances of risk by protecting systems and data | **Azure active directory:**it manage the users identity and access to resources  **Azure key vault:** It handles secrets , encryption keys and certificates as well  **Azure firewall:**it manages the network security to filter traffic. |
| Detect | It helps to detect the occurrence of risk | It helps the organisation to quickly detect the risk and overcome it for future damage. | Azure has services like Azure security centre , Azure sentinel and Azure monitor to detect and respond to threats. |
| Respond | It take action after detecting the event of cybersecurity attack | It helps the organisation to detect the error and mitigate the potential risk by responding to it. | Azure sentinel is for incident response and Azure logic application for automated workflow to handle the risk. |
| Recover | It means developing activities to maintain the plans and restore any impaired services due to risk event. | It helps the organisation to recover the data and continue their operations without any disruption. | **Azure backup:**It provide backup services for data like virtual machines and applications  **Azure site recovery:**organisation must have second location to keep data which is helpful in that case when data is stoles |