**Azure Services**

Communication, Security, Exception handling, Logging, Monitoring, (Queue Retention), RFP, RFQ, COST

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| Azure API Management  **Common issue** | Inbound outbound policies,OAuth2.0, API (Communication, Security, logging, monitoring , Transaction SAGA choreography Azure Event hub), Role Based |
| Azure Active directory  **Common issue** | (app registration, JWT token), B2B or B2C, |
| Azure Logic app  **Common Issue:**  1. Connection Failure - Retry mechanism is used  2. All other exceptions - Run after property is used   * is successful * has timed out * is skipped * has failed | Exception handling, how to communicate parameter one to another, How many connector you worked ? – How many workflow you created ?  Scenario based example, Common issue – **Timeout, Exception handling, (what is best way to implement logging)**  Screenshot showing Consumption workflow designer and current action with ellipses and "Configure run after" selected.  By default, all actions retry 4 additional times over 20-second intervals. So if the first request receives a 500 Internal Server Error response, the workflow engine pauses for 20 seconds, and attempts the request again. |
| Azure Function  (Plan: Consumption(Code), premium(Code or Container), app service plan  Why ?  Run code when event occur  Event driven scaling  No Infrastructure  Consumption pricing free  **Asyc Http**:  long-running operations with external clients.  **Common issue** | Common issue – Timeout, Exception handling, (what is best way to implement logging)  Azure Durable Functions types: orchestrator(can only call activity function), activity, , entity, and client  Durable function component: Starter function, Orchestrator function, Activity function)  **Trigger, binding, Durable function (Function chaining, fan-in fan out, http based Async long running apis, long running process monitoring, Human interaction, Aggregator (Statefull), web hook**Stateful serverless automation with PowerShell support in Azure Durable  Functions - Dr. Ware Technology Services - Microsoft Silver Partner  Do You Know Azure Function Have Function Filters  **Scenario & Problems:**  Azure Functions can run for up to 10 minutes in the serverless ‘consumption’ plan, but a single HTTP request from Logic Apps will time out after 2 minutes. |
| Azure Logic App  **Common issue** |  |
| SQL server  (backup, restore, replica, primary vs secondary memory)  Disk full then?  How load balance ?  **Common issue** | Different types:   1. Azure database for mysql servers 2. Azure SQL 3. SQL Database 4. SQL Managed Instance 5. Azure CosmosDB 6. SQL Server – Azure Arc |
| Azure Event hub  **Common issue** | (replacement of Kafka), Namespace, Eventhub, Partition, Cosumption group, |
| Azure Service Bus  **Common issue** | Queue, Topic |
| Azure Event Grid  **Common issue** |  |
| Scenario to choose Event hub vs event hub vs Service Bus |  |
| Azure storage  Strict data size Limit  (backup/ restore, disaster recovery)  Hard to predicts cost  **Common issue** | Blob storage  File share  Queue vs Azure service Bus (Difference)  Table vs Azure CosmosDB(Difference)  Disk (what’s benefit) ? |
| Azure SQL Server  Backup/ Restore, failover, Encryption, Compliance)  **Common issue** |  |
| Azure databricks |  |
| Azure blob storage vs data lake  **Common issue** | data lake (folder & files) |
| VM 🡪 VM (Secure Private and public end point). Bastion  **Common issue** | Vnet pairing, subnet, datacenter, availability set(fault & Update domain), availability zone |
| Azure DevOps  **Common issue**  Pipeline failed | Trigger, Agent, Pipeline, stages, stage |
| Azure app service  **Common issue** | What type of load balancer why application gateway only if traffic manager also support. |
| Azure Kubernetes Service  **Common issue**  **(if disk fail, need to change)**  Pod not working |  |
| Azure databricks |  |
| Azure Data factory |  |
| Azure Bot Service |  |
| Microservice  Which tool for choreography Or Orchestration ?  When will you choose what and why ? | image |
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