**Cloud Engineer Assessment**

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1. Definitely I would put this in Azure since the requirements have some points which are being easily available in cloud 😊 I have attached diagram.
2. First, I would go to Web Server and tried to reach Database Server.
   1. If Database Server reachable and is not PAAS:
      1. go to database server and check if service is up and running.
      2. Check if instance is online.
      3. check if database server is listening to the corresponding ports\ test connection to those ports (telnet etc.), check local firewall, antivirus.
      4. Check firewall rules, if allows establishing session to those corresponding ports
      5. Check if credentials to connect to database are ok.
      6. Check database logs.
      7. Check os logs on both ends.
      8. Check if additional software like sql native client needed on web server…
   2. If Database server is not reachable from web server
      1. Check if database server is online
      2. Check database firewall\antivirus
      3. Check network, firewall rules.
   3. If database server is PAAS
      1. Check if database service is online
      2. Check firewall\network
      3. Check database advisory.
      4. Check database performance cpu and workload (maybe not accepting new conections)
      5. Try to reach database server without firewall
3. Try to ping using FQDN (ping gre-gnrl-t01.contoso.local)
   1. If ok:
      1. Add entries to host and hostnames
   2. If nok:
      1. Check resolv.conf
      2. Check DNS.
4. .
   * 1. Ram
     2. DISK SPEED\IOPS
     3. If custom code\configuration also might cause performance issues.
     4. Azure datacenter service health\*
   1. I would also check HOST health, VM-Host Logs, go through vm OS event log, check when last time vm was rebooted, updates KBs to check, network activity, connection\user counts.
   2. Depends.
      1. Reboot
      2. If need to add some resources
      3. Switch to ssd.
      4. Check application configuration.
      5. VM version upgrade.