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| | <p>intermittently received HTTP 500-level response codes, experience timeouts or high latencies when accessing App Service deployments hosted in this region.</p> |
| | <p>Root cause and mitigation: The root cause for the issue was that there was a significant increase in HTTP traffic to certain sites deployed to this region. The rate of requests was so much higher than usual that it exceeded the capacity of the load balancers in that region. Load balancer throttling rules were applied for mitigation initially. However, after a certain threshold, existing throttling rules were unable to keep up with the continued increase in request rate. A secondary mitigation was applied to load balancer instances to further throttle the incoming requests. This fully mitigated the issue.</p> <p>Next steps: We sincerely apologize for the impact to affected customers. We are continuously taking steps to improve the Microsoft Azure Platform and our processes to help ensure such incidents do not occur in the future. In this case, this includes (but is not limited to):</p> <ol style="list-style-type: none"> 1. Adding aggressive automated throttling to handle unusual increases in request rate 2. Adding network layer protection to prevent malicious spikes in traffic <p>Provide feedback: Please help us improve the Azure customer communications experience by taking our survey https://survey.microsoft.com/722407</p> |
| 4/26 | <p>Traffic Manager - Connectivity Issues</p> <p>Summary of impact: Between 12:46 and 18:01 UTC on 26 Apr 2018, a subset of customers using Traffic Manager may have encountered sub-optimal traffic routing or may have received alerts relating to degraded endpoints. Customers were provided a workaround during the incident.</p> <p>Preliminary root cause: A configuration issue with a backend network route caused issues with Traffic Manager probes reaching customer endpoints while checking the endpoint health status which led to those endpoints being marked as unhealthy and traffic routed away from them.</p> <p>Mitigation: Engineers made mapping updates to the network route which mitigated the issue.</p> <p>Next steps: Engineers will continue to investigate to establish the full root cause and prevent future occurrences.</p> |
| 4/19 | <p>Service Bus - West Europe</p> <p>Summary of impact: Between approximately 12:00 and 14:44 UTC on 19 Apr 2018, a subset of customers using Service Bus in West Europe may have experienced intermittent timeouts or errors when connecting to Service Bus queues and topics in this region.</p> <p>Preliminary root cause: This issue is related to a similar issue that occurred on the 18th of April in the same region. Engineers determined that the underlying root cause was a backend service that had become unhealthy on a single scale unit, causing intermittent accessibility issues to Service Bus resources.</p> <p>Mitigation: While the original incident self-healed, engineers have additionally performed a change to the service configuration to reroute traffic from the affected scale unit to mitigate the issue. In addition, a manual backend scale out was performed.</p> <p>Next steps: Engineers will continue to investigate to establish the full root cause and prevent future occurrences.</p> |
| 4/17 | <p>Content Delivery Network Connectivity</p> <p>Summary of impact: Between approximately 18:30 and 20:50 UTC on 17 Apr 2018, a subset of customers using Verizon CDN may have experienced difficulties connecting to resources within the European region. Additional Azure Services, utilizing Azure CDN, may have seen downstream impact.</p> <p>Preliminary root cause: Engineers determined that a network configuration change was made to Verizon CDN, causing resource connectivity issues.</p> <p>Mitigation: Verizon engineers mitigated the issue by rerouting traffic to another IP.</p> <p>Next steps: Engineers will continue to investigate to establish the full root cause and prevent future occurrences.</p> |
| 4/15 | <p>RCA - Issues Performing Service Management Operations - Australia East/Southeast</p> <p>Summary of impact: Between 21:00 UTC on 15 Apr 2018 and 03:20 UTC on 16 Apr 2018, customers in Australia Southeast may have been unable to view resources managed by Azure Resource Manager (ARM) via the Azure Portal or programmatically and may have been unable to perform service management operations. After further investigation, customers using ARM in Australia East were not impacted by this issue. Service availability for those resources was not affected.</p> <p>Customer impact: Customers ability to view their existing resources was impacted.</p> <p>Root cause and mitigation: Customers in Australia Southeast were not able to view the resources managed by Azure Resource Manager (ARM) either through the Azure Portal or programmatically due to a bug in the storage account which only impacted ARM service availability. A storage infrastructure configuration change as part of a new deployment resulted in an authentication failure. ARM system did not recognize the failed calls to the storage account and therefore automatic failover was not executed. Engineers rolled back the configuration change in the deployment to restore successful request processing. This action negated the need for manual failover of the ARM service.</p> <p>Next steps: We sincerely apologize for the impact to affected customers. We are continuously taking steps to improve the Microsoft Azure Platform and our processes to help ensure such incidents do not occur in the future. In this case, this includes (but is not limited to):</p> <ol style="list-style-type: none"> 1. Apply the mitigation steps to all the scale units [completed] 2. Release the fix to address the storage bug [completed] 3. Update alerts and processes to detect failed storage accounts [pending] <p>Provide feedback: Please help us improve the Azure customer communications experience by taking our survey: https://survey.microsoft.com/711121</p> |
| 4/9 | <p>Azure Active Directory B2C - Multiple Regions</p> <p>Summary of impact: Between 19:57 and 22:05 UTC on 09 Apr 2018, customers using Azure Active Directory B2C in multiple regions may have experienced client side authorization request failures when connecting to resources. Customers attempting to access services may have received a client side error - "HTTP Error 503. The service is unavailable" - when attempting to login.</p> <p>Preliminary root cause: Engineers have identified a recent configuration update as the preliminary root cause for the issue.</p> <p>Mitigation: Engineers rolled back the recent configuration update to mitigate the issue. Some service instances had become unresponsive, and were manually rebooted so that they could pick up the change and the issue could be fully mitigated.</p> <p>Next steps: Engineers will continue to investigate to establish the full root cause and prevent future occurrences.</p> |
| 4/6 | <p>RCA - Azure Active Directory - Authentication Errors</p> <p>Summary: Between 08:18 and 11:25 UTC on 06 Apr 2018, a subset of customers may have experienced difficulties when attempting to authenticate into resources with Azure Active Directory (AAD) dependencies, the primary impact being experienced for resources located in Asia, Oceania, and European regions. This stemmed from incorrect data mappings in two scale units which caused degraded authentication service for impacted customers, impacting approximately 2.5% of tenants. Downstream impact was reported by some Azure services during the impact period. Customers may have experienced for the following services:</p> <p>Backup: Failures for the registration of new containers and backup/restore operations</p> <p>StorSimple: New device registration failures and StorSimple management/communication failures</p> |

- 2/20

RCA - Multiple Services - UK South

Summary of impact: Between 20:48 UTC on 20 February 2018 and 00:02 UTC on 21 February 2018, a subset of customers in UK South may have experienced difficulties connecting to resources hosted in the region. Impacted services during this time included Azure Search, Virtual Machines, Storage, Azure Site Recovery, and Backup. Some virtual machines may have experienced unexpected reboots.

Root cause and mitigation: On 20 February 2018, engineers were performing Datacenter build-out operations in the UK South Datacenter. This type of operation is managed on a regular basis with no impact to customers. During the operation, the additional nodes that were being added to the Datacenter encountered an issue and needed manual input in order to power cycle before continuing the automated build-out process. The engineer responsible for executing the manual step had previously been engaged in investigating an unrelated issue on a production scale unit and had acquired access to this scale unit through standard just-in-time procedures. While using an internal dev-ops tool, the engineer executed the manual power cycle on the scale unit that was already in production instead of the one in build-out. The nodes power cycled as expected and customers services returned to health once this power cycle had completed. During initial investigation, this issue showed signs of a Datacenter hardware power issue. After the detailed investigation, engineers confirmed that the Datacenter power hardware operated as expected, without any unexpected gap in power supply, as this issue was initiated by the commands executed during build-out.

Next steps: We sincerely apologize for the impact to affected customers. We are continuously taking steps to improve the Microsoft Azure Platform and our processes to help ensure such incidents do not occur in the future. In this case, this includes (but is not limited to):

 - Temporarily removing bulk power cycle capabilities from the operations tool.
 - Broadly reviewing all bulk operation tooling.
 - Instituting stricter controls by throttling the operations and requiring additional approvals.
 - We will also improve logging so that we can quickly distinguish between power events and power cycles.

Provide feedback: Please help us improve the Azure customer communications experience by taking our survey: <https://survey.microsoft.com/618897>