SQL Database should avoid using GRS backup redundancy

Last updated by | Lu Yang | Jan 11, 2023 at 6:53 PM PST

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```

Symptom

The Azure Built-in Policy blocks Portal requests and reports policy violation error **SQL Database should avoid using GRS backup redundancy** when customer perform some operations (for example: moving an Azure SQL database into an elastic pool, scaling database) via **Azure Portal**. But customer's database is configured LRS, not GRS.

Error message details:

```
"properties": {
    …
    "policies": "[{\"policyDefinitionId\":\"/providers/Microsoft.Authorization/policyDefinitions/{xxx}\",\"pol
    "eventCategory": "Policy",
    "entity": "/subscriptions/{xxx}/resourceGroups/{xxx}/providers/Microsoft.Sql/servers/{xxx}/databases/{xxx}
    "message": "Microsoft.Authorization/policies/deny/action",
    "hierarchy": ""
}
```

Cause

Azure Portal Issue.

Troubleshooting

The policy can be related to [SQL database should avoid using GRS backup redundancy](#) ⬈. When this built-in backup storage redundancy policy is assigned, users in the subscription won't be able to create a database with GRS via the Azure Portal or Azure Powershell.

However in this case, the database is using LRS but not GRS, the policy violation error is unexpected.

Kusto does not have related info (ARM layer recorded the failure, but ARM layer tables do not contain the database backup storage redundancy setting info.) Browser trace may help to verify what value is passed into the request.

Can collect below browser trace to check the backup storage redundancy info passed into the request:

- Click the F12 before moving the database to the elastic pool.
- After the notification indicate you that the operation has been blocked due to the policy, please click stop
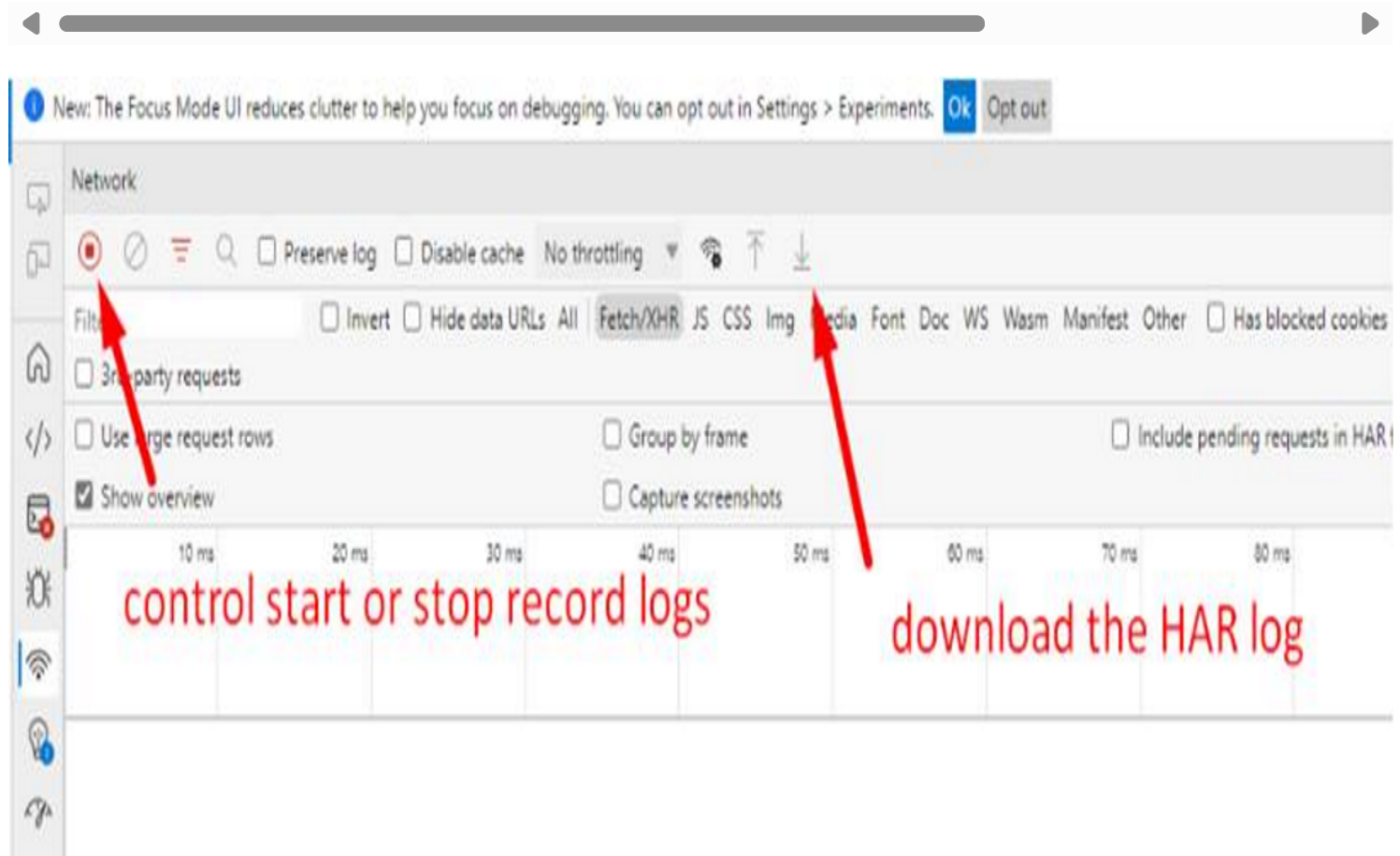
If a wrong value other than LRS (customer's real setting) is passed into the request, then may hit this issue.

Mitigation

Use Powershell to perform the operation (add **-BackupStorageRedundancy** option to specify LRS)

Example: If the issue occurs when moving a database into elastic pool, then use below Powershell command:

```
$resourceGroupName = "xxx"
$secondPoolName = 'xxxt'
$serverName = "xxxt"
$firstDatabaseName = "xxx"
$backupredundancy = "Local"
Set-AzSqlDatabase -ResourceGroupName $resourceGroupName `
    -ServerName $serverName `
    -DatabaseName $firstDatabaseName `
    -ElasticPoolName $secondPoolName `
    -BackupStorageRedundancy $backupredundancy
```

References

[Incident-357445300 Details - IcM (microsofticm.com)](microsofticm.com) ↗

[Incident-339116028 Details - IcM (microsofticm.com)](microsofticm.com) ↗

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