

Ahub

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Issue

When customers report issues related to enabling or disabling Azure Hybrid Benefit (Ahub)

Investigation/Analysis

1. Customers might complain that they can't see the option to enable Ahub benefit on their portal.

Check to see:

1. What is the subscription type?
2. What is the SLO?

For 1. Azure Hybrid benefit applies to all subscription types except for Enterprise Dev/Test or MSDN subscriptions. As per this document, Dev/test pricing for SQL Database is billed at the same rate as Azure Hybrid Benefit pricing, with savings of up to 55% on License Included prices. Hence they don't get additional discount via Ahub.

<https://azure.microsoft.com/en-us/pricing/details/azure-sql/sql-managed-instance/single/> 

For 2. Azure Hybrid Benefit applies at the Database level, or Elastic pool level or Managed Instance level ONLY for these editions: General Purpose, Business Critical or Hyperscale. DTU based models and Serverless DB do not qualify for Ahub benefits. If customers complain that they don't see the Ahub applied for DBs that are part of the pool, is because the Ahub applies at Elastic pool level and by default applies to all DBs inside the pool.

Reference: <https://www.microsoft.com/en-us/licensing/news/expanded-ahb-rights-for-microsoft-sql-server> 

2. Customers complain that even though they enabled Ahub benefit, they can't see it applied on portal/billing:

Provided that customer's subscription and SLO meet the requirements from step1, check further to see:

1. How did the customer enable the benefit (via portal, PowerShell, CLI or REST API)?

2. Is there a discrepancy between the result set returned from any of these?

Check telemetry:

Kusto:

For single database, below query will show the latest billing information based on whether Ahub is applied or not and if it was changed in the past.

```
MonBillingDatabaseStatus2
| where LogicalServerName =~ '<ServerName>' or billing_server_name =~ '<ServerName>'
| where database_name =~ "<DatabaseName>"
| where SubscriptionId =~ '<SubscriptionID>' or billing_subscription_id =~ '<SubscriptionID>'
| summarize arg_max(TIMESTAMP,*) by billing_server_name
| project LogicalServerName, billing_server_name, database_name, current_state, edition, service_level_objective, license_type
```

Below is a sample output:

LogicalServerName	billing_server_name	database_name	current_state	edition	service_level_objective	license_type
DummyValue	████████server	████████SQL1	Ready	Standard	S0	

For Elastic pool, below query will show the latest billing information based on whether Ahub is applied or not and if it was changed in the past for the elastic pool.

```
MonBillingResourcePoolStatus
| where LogicalServerName =~ '<ServerName>' or billing_server_name =~ '<ServerName>'
| where SubscriptionId =~ '<SubscriptionID>' or billing_subscription_id =~ '<SubscriptionID>'
| project LogicalServerName, billing_server_name, resource_pool_name, current_state, database_edition, service_level_objective, license_type
```

Below is a sample output:

LogicalServerName	billing_server_name	resource_pool_name	current_state	database_edition	service_level_objective	license_type
DummyValue	████████jobtest	████████jobtestpool	Ready	GeneralPurpose	SQLDB_GP_Gen5_2	BasePrice

CMS - will show the current state on Ahub benefit. This can confirm whether or not the Ahub benefit was applied.

For Single database:

```
select logical_server_name, logical_database_name, state, edition, service_level_objective, license_type
from logical_databases where logical_server_name = '<ServerName>'
```

Below is a sample output:

1_DB0_Result_Table1		logical_server_name	logical_database_name	state	edition	service_level_objective	license_type
	▶	server	Maintenance	Tombstoned	GeneralPurpose	SQLDB_GP_Gen5_2	LicenseIncluded
		server	syncdb	Ready	Standard	S0	
		server	DB	Ready	GeneralPurpose	SQLDB_GP_S_Gen5_1	
		server	master	Ready	System	System1	
		server	jobdb	Ready	Standard	S0	
		server	SQL1	Ready	Standard	S0	
		server	member	Ready	Standard	S0	
		server	hub	Ready	Standard	S0	

For Elastic pool:

```
select logical_server_name, name, state, database_edition, service_level_objective, license_type
from logical_resource_pools where logical_server_name = '<ServerName>'
```

Below is a sample output:

1_DB0_Result_Table1		logical_server_name	name	state	database_edition	service_level_objective	license_type
	▶	jobtest	jobtestpool	Ready	GeneralPurpose	SQLDB_GP_Gen5_2	BasePrice

How/what to read:

license_type = BasePrice --> Azure Hybrid Benefit (AHB) discounted pricing for existing SQL Server license owners is applied.

license_type = LicenseIncluded --> Azure Hybrid Benefit (AHB) discount pricing for existing SQL Server license owners is not applied.

license_type = <BLANK> or NULL --> Azure Hybrid Benefit is not applicable (for example DB is DTU based SLO or serverless)

Public Doc Reference

Azure Hybrid Benefit

<https://docs.microsoft.com/en-us/azure/azure-sql/azure-hybrid-benefit?tabs=azure-powershell> 

Azure Hybrid Benefit FAQ

<https://azure.microsoft.com/en-us/pricing/hybrid-benefit/faq/> 

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