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# **Ahub**

Last updated by | Charlene Wang | Jan 3, 2023 at 12:30 AM PST

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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-sgl/sgl-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: <a href="https://www.microsoft.com/en-us/licensing/news/expanded-ahb-rights-for-microsoft-sql-server">https://www.microsoft.com/en-us/licensing/news/expanded-ahb-rights-for-microsoft-sql-server</a>

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)?

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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_objecti
```

## Below is a sample output:

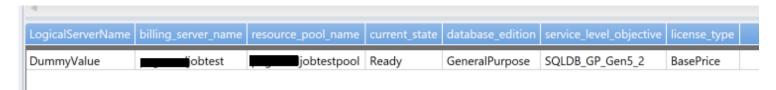
	se_type	license_typ	evel_objective	service_level	edition	current_state	database_name	billing_server_name	LogicalServerName
DummyValue Server SQL1 Ready Standard S0				S0	Standard	Ready	SQL1	server	DummyValue

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
```



## Below is a sample output:



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

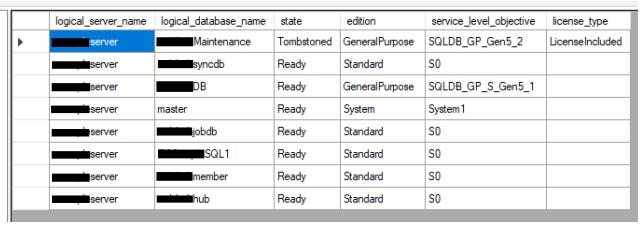
For Single database:

```
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:

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1\_DB0\_Result\_Table1



#### 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:



#### 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

\*\*How good have you found this content?\*\*

