

What's new in Cloud Migration



Agenda

- New UI for Cloud migration
- Move custom fields to extensions during cloud migration
- Company limit per environment
- Performance improvements
- Application Insights
- Roadmap and plans

New UI for Business Central Cloud Migration

Cloud Migration Setup

Welcome to the on-premises to Business Central cloud Data Migration Setup

This assisted setup will guide you through the necessary steps to create a configuration that will enable data migration from your on-premises Dynamics solution to your Business Central cloud tenant. Upon completion of the migration, additional steps may be required before transacting in your Business Central cloud tenant. See setup checklists for more information.

Warning

Migrating data from on-premises to your Business Central cloud solution may overwrite any existing data in your Business Central cloud tenant. Refer to Help for more information.

Help

This migration process leverages Microsoft's Azure Data Factory, which may offer varying levels of compliance. Refer to the Privacy Notice for more information.

Privacy Notice

I accept warning & privacy not...

Back Next Finish

Information

0
ables Failed

0
ables with Warnings

Company Status

Preventing mistakes with new UI

Cloud Migration Management

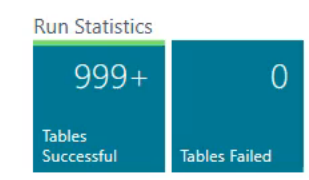
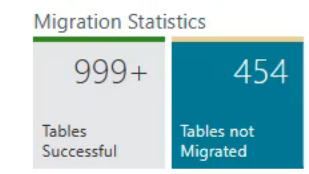
✓ Saved

✕ Reminder: your work date is 4/12/2021 Use today | Change to... | Turn off reminder

Search [Configure GP Migration](#) [Create Seutp records](#) [Run Migration Now](#) [Run Data Upgrade Now](#) [Create Diagnostic Run](#) [Refresh Status](#) [Disable Cloud Migration](#)

Start Time ↓	End Time	Migration Type	Status	Source	Details
→ 3/18/2023 10:28 AM	3/18/2023 12:28 PM	Normal	Upgrade Pend...	Dynamics 365 Business Central earlier ...	Replication completed successfully.
3/18/2023 4:28 AM	3/18/2023 6:28 AM	Normal	Upgrade Pend...	Dynamics 365 Business Central earlier ...	Replication completed successfully.
3/17/2023 10:28 PM	3/18/2023 12:28 AM	Normal	Upgrade Pend...	Dynamics 365 Business Central earlier ...	Replication completed successfully.
3/17/2023 4:28 PM	3/17/2023 6:28 PM	Normal	Upgrade Pend...	Dynamics 365 Business Central earlier ...	Replication completed successfully.
3/17/2023 2:56 PM	3/17/2023 3:44 PM	Normal	Upgrade Pend...	Dynamics 365 Business Central earlier ...	Replication completed successfully.
3/17/2023 2:46 PM	3/17/2023 2:50 PM	Normal	Completed	Dynamics 365 Business Central earlier ...	Cloud migration setup completed.
3/17/2023 2:22 PM	3/17/2023 2:22 PM	Normal	Completed	Dynamics 365 Business Central earlier ...	Cloud migration was paused. Need to re...
3/17/2023 11:50 AM	3/17/2023 12:10 PM	Normal	Upgrade Pend...	Dynamics 365 Business Central earlier ...	Replication completed successfully.
3/17/2023 10:56 AM	3/17/2023 11:23 AM	Normal	Upgrade Pend...	Dynamics 365 Business Central earlier ...	Replication completed successfully.
3/17/2023 10:28 AM	3/17/2023 10:49 AM	Normal	Upgrade Pend...	Dynamics 365 Business Central earlier ...	Replication completed successfully.
3/17/2023 10:28 AM	3/17/2023 12:28 PM	Normal	Upgrade Pend...	Dynamics 365 Business Central earlier ...	Replication completed successfully.
3/17/2023 10:01 AM	3/17/2023 10:27 AM	Normal	Upgrade Pend...	Dynamics 365 Business Central earlier ...	Replication completed successfully.
3/17/2023 9:38 AM	3/17/2023 9:59 AM	Normal	Upgrade Pend...	Dynamics 365 Business Central earlier ...	Replication completed successfully.
3/17/2023 9:13 AM	3/17/2023 9:33 AM	Normal	Upgrade Pend...	Dynamics 365 Business Central earlier ...	Replication completed successfully.
3/17/2023 8:49 AM	3/17/2023 9:11 AM	Normal	Upgrade Pend...	Dynamics 365 Business Central earlier ...	Replication completed successfully.
3/17/2023 8:28 AM	3/17/2023 8:49 AM	Normal	Upgrade Pend...	Dynamics 365 Business Central earlier ...	Replication completed successfully.
3/17/2023 7:59 AM	3/17/2023 9:59 AM	Full	Upgrade Pend...	Dynamics 365 Business Central earlier ...	Replication completed successfully.
3/17/2023 7:18 AM	3/17/2023 7:39 AM	Normal	Upgrade Pend...	Dynamics 365 Business Central earlier ...	Replication completed successfully.
3/17/2023 6:53 AM	3/17/2023 7:15 AM	Normal	Upgrade Pend...	Dynamics 365 Business Central earlier ...	Replication completed successfully.
3/17/2023 6:28 AM	3/17/2023 6:51 AM	Normal	Upgrade Pend...	Dynamics 365 Business Central earlier ...	Replication completed successfully.
3/17/2023 6:07 AM	3/17/2023 6:27 AM	Normal	Upgrade Pend...	Dynamics 365 Business Central earlier ...	Replication completed successfully.

Migration Information



Company Status



Switch to new UI

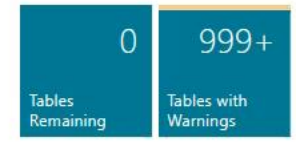
✓ Saved

2021 Use today | Change to... | Turn off reminder

Create Setup records Run Migration Now Run Data Upgrade Now Create Diagnostic Run Refresh Status Disable Cloud Migration

Start Time ↓	End Time	Migration Type	Status	Source	Details
3/18/2023 10:28 AM	3/18/2023 12:28 PM	Normal	Upgrade Pend...	Dynamics 365 Business Central earlier ...	Replication completed successfully.
3/18/2023 4:28 AM	3/18/2023 6:28 AM	Normal	Upgrade Pend...	Dynamics 365 Business Central earlier ...	Replication completed successfully.
3/17/2023 10:28 PM	3/18/2023 12:28 AM	Normal	Upgrade Pend...	Dynamics 365 Business Central earlier ...	Replication completed successfully.
3/17/2023 4:28 PM	3/17/2023 6:28 PM	Normal	Upgrade Pend...	Dynamics 365 Business Central earlier ...	Replication completed successfully.
3/17/2023 2:56 PM	3/17/2023 3:44 PM	Normal	Upgrade Pend...	Dynamics 365 Business Central earlier ...	Replication completed successfully.
3/17/2023 2:46 PM	3/17/2023 2:50 PM	Normal	Completed	Dynamics 365 Business Central earlier ...	Cloud migration setup completed.
3/17/2023 2:22 PM	3/17/2023 2:22 PM	Normal	Completed	Dynamics 365 Business Central earlier ...	Cloud migration was paused. Need to re...
3/17/2023 11:50 AM	3/17/2023 12:10 PM	Normal	Upgrade Pend...	Dynamics 365 Business Central earlier ...	Replication completed successfully.
3/17/2023 10:56 AM	3/17/2023 11:23 AM	Normal	Upgrade Pend...	Dynamics 365 Business Central earlier ...	Replication completed successfully.
3/17/2023 10:28 AM	3/17/2023 10:49 AM	Normal	Upgrade Pend...	Dynamics 365 Business Central earlier ...	Replication completed successfully.
3/17/2023 10:28 AM	3/17/2023 12:28 PM	Normal	Upgrade Pend...	Dynamics 365 Business Central earlier ...	Replication completed successfully.
3/17/2023 10:01 AM	3/17/2023 10:27 AM	Normal	Upgrade Pend...	Dynamics 365 Business Central earlier ...	Replication completed successfully.
→ 3/17/2023 9:38 AM	3/17/2023 9:59 AM	Normal	Upgrade Pend...	Dynamics 365 Business Central earlier ...	Replication completed successfully.
3/17/2023 9:13 AM	3/17/2023 9:33 AM	Normal	Upgrade Pend...	Dynamics 365 Business Central earlier ...	Replication completed successfully.
3/17/2023 8:49 AM	3/17/2023 9:11 AM	Normal	Upgrade Pend...	Dynamics 365 Business Central earlier ...	Replication completed successfully.
3/17/2023 8:28 AM	3/17/2023 8:49 AM	Normal	Upgrade Pend...	Dynamics 365 Business Central earlier ...	Replication completed successfully.
3/17/2023 7:59 AM	3/17/2023 9:59 AM	Full	Upgrade Pend...	Dynamics 365 Business Central earlier ...	Replication completed successfully.
3/17/2023 7:18 AM	3/17/2023 7:39 AM	Normal	Upgrade Pend...	Dynamics 365 Business Central earlier ...	Replication completed successfully.
3/17/2023 6:53 AM	3/17/2023 7:15 AM	Normal	Upgrade Pend...	Dynamics 365 Business Central earlier ...	Replication completed successfully.
3/17/2023 6:28 AM	3/17/2023 6:51 AM	Normal	Upgrade Pend...	Dynamics 365 Business Central earlier ...	Replication completed successfully.
3/17/2023 6:07 AM	3/17/2023 6:27 AM	Normal	Upgrade Pend...	Dynamics 365 Business Central earlier ...	Replication completed successfully.

- Define User Mappings
- Manage Custom Tables
- Actions >
- Automate >
- 454
- Fewer options



Failed tables overview

Management

2021 Use today | Change to... | Turn off reminder

- Run data replication
- Run data upgrade
- Refresh status
- Complete migration
- Manage custom tables
- Define user mappings
- Create diagnostic run
- Actions
- Fewer options

Status	Ready for replication	Tables successful	54618
		Tables failed	5
		Companies status	Under replication: 1, Replicated: 211, Total: 215

Start Time ↓	End Time	Status	Details	Tables Successful	Tables Failed
3/18/2023 10:28 AM	3/18/2023 12:28 PM	Completed	Replication completed successfully.	2056	-
3/18/2023 4:28 AM	3/18/2023 6:28 AM	Completed	Replication completed successfully.	2056	-
3/17/2023 10:28 PM	3/18/2023 12:28 AM	Completed	Replication completed successfully.	2056	-
3/17/2023 4:28 PM	3/17/2023 6:28 PM	Completed	Replication completed successfully.	2056	-
3/17/2023 2:56 PM	3/17/2023 3:44 PM	Completed	Replication completed successfully.	513	-
3/17/2023 2:46 PM	3/17/2023 2:50 PM	Completed	Cloud migration setup completed.	-	-
3/17/2023 2:22 PM	3/17/2023 2:22 PM	Completed	Cloud migration was paused. Need to restart integrati...	-	-
3/17/2023 11:50 AM	3/17/2023 12:10 PM	Completed	Replication completed successfully.	2570	-
3/17/2023 10:56 AM	3/17/2023 11:23 AM	Completed	Replication completed successfully.	2570	-
3/17/2023 10:28 AM	3/17/2023 10:49 AM	Completed	Replication completed successfully.	2700	-
3/17/2023 10:28 AM	3/17/2023 12:28 PM	Completed	Replication completed successfully.	2056	-

Analyzing data moved

Management

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Status	Ready for replication	Tables successful	54618
		Tables failed	5
		Companies status	Under replication: 1, Replicated: 211, Total: 215

Migration log

Start Time ↓	End Time	Status	Details	Tables Successful	Tables Failed
→ 3/18/2023 10:28 AM	3/18/2023 12:28 PM	Completed	Replication completed successfully.	2056	–
3/18/2023 4:28 AM	3/18/2023 6:28 AM	Completed	Replication completed successfully.	2056	–
3/17/2023 10:28 PM	3/18/2023 12:28 AM	Completed	Replication completed successfully.	2056	–
3/17/2023 4:28 PM	3/17/2023 6:28 PM	Completed	Replication completed successfully.	2056	–
3/17/2023 2:56 PM	3/17/2023 3:44 PM	Completed	Replication completed successfully.	513	–
3/17/2023 2:46 PM	3/17/2023 2:50 PM	Completed	Cloud migration setup completed.	–	–
3/17/2023 2:22 PM	3/17/2023 2:22 PM	Completed	Cloud migration was paused. Need to restart integrati...	–	–
3/17/2023 11:50 AM	3/17/2023 12:10 PM	Completed	Replication completed successfully.	2570	–
3/17/2023 10:56 AM	3/17/2023 11:23 AM	Completed	Replication completed successfully.	2570	–
3/17/2023 10:28 AM	3/17/2023 10:49 AM	Completed	Replication completed successfully.	2700	–
3/17/2023 10:28 AM	3/17/2023 12:28 PM	Completed	Replication completed successfully.	2056	–

Checking on table status

✓ Saved

2021 Use today | Change to... | Turn off reminder

Per database tables

Table Name

Company Name ↑ ▼	Table Name ↑	Status	Details	Total records - Source table	Total records - Target table	Difference between target and source	Number of replications
	Custom Report Layout\$437dbf0e-84ff-417a-...	Successful		48	48		2
	Report Layout Selection\$437dbf0e-84ff-417...	Successful		351	351		2
	Tenant Media	Successful		13801	14137	336	1
	Tenant Media Set	Successful		4280	4308	28	1
	Tenant Media Thumbnails	Successful		42502	42865	363	1
→	⋮ Upgrade Tags\$63ca2fa4-4f03-4f2b-a480-17...	Successful	Could not get the target table count.	68			1

Replicated companies

Management

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Status: Ready for replication

Tables successful: 54618

Tables failed: 5

Companies status: Under replication: 1, Replicated: 211, Total: 215

Migration log					
Start Time ↓	End Time	Status	Details	Tables Successful	Tables Failed
3/17/2023 7:59 AM	3/17/2023 9:59 AM	Completed	Replication completed successfully.	2576	—
3/17/2023 7:18 AM	3/17/2023 7:39 AM	Completed	Replication completed successfully.	2570	—
3/17/2023 6:53 AM	3/17/2023 7:15 AM	Completed	Replication completed successfully.	2574	—
3/17/2023 6:28 AM	3/17/2023 6:51 AM	Failed	Replication completed with failed tables.	2566	4
3/17/2023 6:07 AM	3/17/2023 6:27 AM	Completed	Replication completed successfully.	2570	—
3/17/2023 5:46 AM	3/17/2023 6:06 AM	Completed	Replication completed successfully.	2570	—
3/17/2023 5:23 AM	3/17/2023 5:45 AM	Completed	Replication completed successfully.	2570	—
3/17/2023 5:02 AM	3/17/2023 5:22 AM	Completed	Replication completed successfully.	2570	—
3/17/2023 4:37 AM	3/17/2023 5:01 AM	Completed	Replication completed successfully.	2570	—
→ 3/17/2023 3:59 AM	3/17/2023 4:35 AM	Failed	Replication completed with failed tables.	2574	2
3/16/2023 9:46 PM	3/16/2023 9:50 PM	Completed	Cloud migration setup completed.	—	—

Complete the cloud migration

Migration

Use today | Change to... | Turn off reminder

- Run data replication
- Run data upgrade
- Refresh status
- Complete migration**
- Manage custom tables
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Status	Ready for replication	Tables successful	54618
		Tables failed	5
		Companies status	Under replication: 1, Replicated: 211, Total: 215

Migration log						
Start Time ↓	End Time	Status	Details	Tables Successful	Tables Failed	
→ 3/18/2023 10:28 AM	3/18/2023 12:28 PM	Completed	Replication completed successfully.	2056	-	↑
3/18/2023 4:28 AM	3/18/2023 6:28 AM	Completed	Replication completed successfully.	2056	-	
3/17/2023 10:28 PM	3/18/2023 12:28 AM	Completed	Replication completed successfully.	2056	-	
3/17/2023 4:28 PM	3/17/2023 6:28 PM	Completed	Replication completed successfully.	2056	-	
3/17/2023 2:56 PM	3/17/2023 3:44 PM	Completed	Replication completed successfully.	513	-	
3/17/2023 2:46 PM	3/17/2023 2:50 PM	Completed	Cloud migration setup completed.	-	-	
3/17/2023 2:22 PM	3/17/2023 2:22 PM	Completed	Cloud migration was paused. Need to restart integrati...	-	-	
3/17/2023 11:50 AM	3/17/2023 12:10 PM	Completed	Replication completed successfully.	2570	-	
3/17/2023 10:56 AM	3/17/2023 11:23 AM	Completed	Replication completed successfully.	2570	-	
3/17/2023 10:28 AM	3/17/2023 10:49 AM	Completed	Replication completed successfully.	2700	-	
3/17/2023 10:28 AM	3/17/2023 12:28 PM	Completed	Replication completed successfully.	2056	-	

Complete the cloud migration

Migration

Use today | Change to... | Turn off reminder

- Run data replication
- Run data upgrade
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- Complete migration**
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- Fewer options

Status	Ready for replication	Tables successful	54618
		Tables failed	5
		Companies status	Under replication: 1, Replicated: 211, Total: 215

Migration log						
Start Time ↓	End Time	Status	Details	Tables Successful	Tables Failed	
→ 3/18/2023 10:28 AM	3/18/2023 12:28 PM	Completed	Replication completed successfully.	2056	-	↑
3/18/2023 4:28 AM	3/18/2023 6:28 AM	Completed	Replication completed successfully.	2056	-	
3/17/2023 10:28 PM	3/18/2023 12:28 AM	Completed	Replication completed successfully.	2056	-	
3/17/2023 4:28 PM	3/17/2023 6:28 PM	Completed	Replication completed successfully.	2056	-	
3/17/2023 2:56 PM	3/17/2023 3:44 PM	Completed	Replication completed successfully.	513	-	
3/17/2023 2:46 PM	3/17/2023 2:50 PM	Completed	Cloud migration setup completed.	-	-	
3/17/2023 2:22 PM	3/17/2023 2:22 PM	Completed	Cloud migration was paused. Need to restart integrati...	-	-	
3/17/2023 11:50 AM	3/17/2023 12:10 PM	Completed	Replication completed successfully.	2570	-	
3/17/2023 10:56 AM	3/17/2023 11:23 AM	Completed	Replication completed successfully.	2570	-	
3/17/2023 10:28 AM	3/17/2023 10:49 AM	Completed	Replication completed successfully.	2700	-	
3/17/2023 10:28 AM	3/17/2023 12:28 PM	Completed	Replication completed successfully.	2056	-	



Cloud Migration Management

Reminder: your work date is 4/12/2021 Use today | Change to... | Turn off reminder

- Run data replication
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- Fewer options

Status: Ready for replication

Tables successful: 54623

Companies status: Under replication: 1, Replicated: 211, Total: 215

Migration log

Start Time ↓	End Time	Status	Details	Tables Successful	Tables Failed
→ 3/18/2023 10:28 AM	3/18/2023 12:28 PM	Completed	Replication completed successfully.	2056	-
3/18/2023 4:28 AM	3/18/2023 6:28 AM	Completed	Replication completed successfully.	2056	-
3/17/2023 10:28 PM	3/18/2023 12:28 AM	Completed	Replication completed successfully.	2056	-
3/17/2023 4:28 PM	3/17/2023 6:28 PM	Completed	Replication completed successfully.	2056	-
3/17/2023 2:56 PM	3/17/2023 3:44 PM	Completed	Replication completed successfully.	513	-
3/17/2023 2:46 PM	3/17/2023 2:50 PM	Completed	Cloud migration setup completed.	-	-
3/17/2023 2:22 PM	3/17/2023 2:22 PM	Completed	Cloud migration was paused. Need to restart integrati...	-	-
3/17/2023 11:50 AM	3/17/2023 12:10 PM	Completed	Replication completed successfully.	2570	-
3/17/2023 10:56 AM	3/17/2023 11:23 AM	Completed	Replication completed successfully.	2570	-
3/17/2023 10:28 AM	3/17/2023 10:49 AM	Completed	Replication completed successfully.	2700	-
3/17/2023 10:28 AM	3/17/2023 12:28 PM	Completed	Replication completed with failed tables.	2570	-
3/17/2023 10:28 AM	3/17/2023 12:28 PM	Completed	Replication completed successfully.	2056	-

Pausing/abandoning the cloud migration

[Change to... | Turn off reminder

- Run data replication
- Run data upgrade
- Refresh status
- Complete migration**
- Manage custom tables
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- Actions
- Fewer options

Status: Ready for replication Tables successful: 54623

Companies status: Under replication: 1, Replicated: 211, Total: 215

Migration log

Start Time ↓	End Time	Status	Details	Tables Successful	Tables Failed
→ 3/18/2023 10:28 AM	3/18/2023 12:28 PM	Completed	Replication completed successfully.	2056	-
3/18/2023 4:28 AM	3/18/2023 6:28 AM	Completed	Replication completed successfully.	2056	-
3/17/2023 10:28 PM	3/18/2023 12:28 AM	Completed	Replication completed successfully.	2056	-
3/17/2023 4:28 PM	3/17/2023 6:28 PM	Completed	Replication completed successfully.	2056	-
3/17/2023 2:56 PM	3/17/2023 3:44 PM	Completed	Replication completed successfully.	513	-
3/17/2023 2:46 PM	3/17/2023 2:50 PM	Completed	Cloud migration setup completed.	-	-
3/17/2023 2:22 PM	3/17/2023 2:22 PM	Completed	Cloud migration was paused. Need to restart integrati...	-	-
3/17/2023 11:50 AM	3/17/2023 12:10 PM	Completed	Replication completed successfully.	2570	-
3/17/2023 10:56 AM	3/17/2023 11:23 AM	Completed	Replication completed successfully.	2570	-
3/17/2023 10:28 AM	3/17/2023 10:49 AM	Completed	Replication completed successfully.	2700	-
3/17/2023 10:28 AM	3/17/2023 12:28 PM	Completed	Replication completed with failed tables.	2570	-
3/17/2023 10:28 AM	3/17/2023 12:28 PM	Completed	Replication completed successfully.	2056	-

Unblock tables

Cloud Migration Management

- Run data replication
- Run data upgrade
- Refresh status
- Complete migration
- Manage custom tables
- Define user mappings
- Create diagnostic run
- More options

Status	Replication completed with failed tables	Tables successful	772
		Tables failed	1
		Companies status	Under replication: 2, Replicated: 2, Total: 3

Migration log

Start Time ↓	End Time	Status	Details	Tables Successful	Tables Failed
→ 3/18/2023 7:56 PM	3/18/2023 8:07 PM	Failed	Replication completed with failed tables.	772	1
3/18/2023 7:50 PM	3/18/2023 7:51 PM	Completed	Cloud migration setup completed.	-	-

Sanitize tables

Cleanup Data - Corrupted Code fields

Invalid characters in Code fields

Lowercase, newline, carriage return, tab...

Any modification will fail

Problems with displaying the records in the UI

```
SELECT *
FROM [dbo].[CRONUS US Migrate 0365$Customer]
WHERE [No_] like '%' + Char(10) + '%'
```

timestamp	No_	Name	Search Name
0x000000000000D76CA	10000	Adatum Corporation	ADATUM CORPORATION
0x000000000000D76CD	20000	Trey Research	TREY RESEARCH

```
local procedure UpdateCustomers()
var
    Customer: Record "Customer";
begin
    if Customer.FindSet() then
        repeat
            Customer.ChangeValues();
            Customer.Modify();
        until Customer.Next() = 0;
end;
```

Invoke-NAVSanitizeField

Reference

Module: [Microsoft.Dynamics.Nav.Management](#)

Invokes the sanitize field operation on the specified tenant.

Syntax

```
PowerShell Copy  
  
Invoke-NAVSanitizeField  
    [-RemoveDuplicates]  
    [-ServerInstance] <String>  
    [-Tenant <TenantId>]  
    [-CompanyName <String>]  
    [[-TableId] <Int32>]  
    [[-FieldId] <Int32>]  
    [-Force]  
    [-WhatIf]  
    [-Confirm]  
    [<CommonParameters>]
```

- Run once on a copy of the database to identify tables with problems
- Sanitize the data (-TableId parameter)
- Recommendation:
Fix the Live Instance (before upgrade/migration)



Cloud Migration Management

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Status: Ready for replication

Tables successful: 54623

Companies status: Under replication: 1, Replicated: 211, Total: 215

Migration log

Start Time ↓	End Time	Status	Details	Tables Successful	Tables Failed
→ 3/18/2023 10:28 AM	3/18/2023 12:28 PM	Completed	Replication completed successfully.	2056	-
3/18/2023 4:28 AM	3/18/2023 6:28 AM	Completed	Replication completed successfully.	2056	-
3/17/2023 10:28 PM	3/18/2023 12:28 AM	Completed	Replication completed successfully.	2056	-
3/17/2023 4:28 PM	3/17/2023 6:28 PM	Completed	Replication completed successfully.	2056	-
3/17/2023 2:56 PM	3/17/2023 3:44 PM	Completed	Replication completed successfully.	513	-
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3/17/2023 10:56 AM	3/17/2023 11:23 AM	Completed	Replication completed successfully.	2570	-
3/17/2023 10:28 AM	3/17/2023 10:49 AM	Completed	Replication completed successfully.	2700	-
3/17/2023 10:28 AM	3/17/2023 12:28 PM	Completed	Replication completed with failed tables.	2570	-
3/17/2023 10:28 AM	3/17/2023 12:28 PM	Completed	Replication completed successfully.	2056	-

Move custom fields to extensions during cloud migration

Table mapping during migration



Table 18 Customer

Microsoft Fields
Field – Not needed
Field 1
Field 2
Field 3

ReplicateData=true property inserts default mapping by name



Table 18 Customer

Microsoft Fields

PTE 1 Table Extension

PTE 1 - Field 1
PTE 1 - Field 2

PTE 2 Table Extension

PTE 2 - Field 3

Table mapping during migration



Table 18 Customer
Microsoft Fields
Field – Not needed
Field 1
Field 2
Field 3

ReplicateData=true property inserts default mapping by name



Table 18 Customer
Microsoft Fields

Migration Table Mapping will copy the custom fields to target tables if field name and type match



PTE 1 Table Extension
PTE 1 - Field 1
PTE 1 - Field 2

PTE 2 Table Extension
PTE 2 - Field 3

Table mapping during migration



Table 18 Customer
Microsoft Fields
Field – Not needed
PTE 1 - Field 1
PTE 1 - Field 2
PTE 2 - Field 3

ReplicateData=true property inserts default mapping by name



Table 18 Customer
Microsoft Fields

Migration Table Mapping will copy the custom fields to target tables if field name and type match



PTE 1 Table Extension
PTE 1 - Field 1
PTE 1 - Field 2

PTE 2 Table Extension
PTE 2 - Field 3

Migration Table Mapping



Search + New Edit List Delete Restore Default Mappings Add Table Mappings Populate From Extension Delete All For Extension Import Export More options



	Target Table Type	Extension Name	Table Name	Source Table Name	Source Table App ID	Data Per Company
→	Table					<input checked="" type="checkbox"/>

Easier way to define table mappings

Restore Default Mappings Add Table Mappings Populate From Extension Delete All For Extension Import Export More options

Migration Name	Table Name	Source Table Name	Source Table App ID	Data Per Company
				<input checked="" type="checkbox"/>

Migration Table Mapping



Search + New Edit List Delete Restore Default Mappings Add Table Mappings Populate From Extension Delete All For Extension Import Export More options



Target Table Type	Extension Name	Table Name	Source Table Name	Source Table App ID	Data Per Company
→ Table					<input checked="" type="checkbox"/>



Export/Import actions

Restore Default Mappings Add Table Mappings Populate From Extension Delete All For Extension Import Export More options

Navigation icons: Refresh, Filter, List

	Extension Name	Table Name	Source Table Name	Source Table App ID	Data Per Company
	MSFT PTE Cloud Mig Field Test	G_L Entry	G_L Entry		<input checked="" type="checkbox"/>
	MSFT PTE Cloud Mig Field Test	Customer	Customer		<input checked="" type="checkbox"/>
Table Extension	MSFT PTE Cloud Mig Field Test 2	G_L Entry	G_L Entry		<input checked="" type="checkbox"/>
Table Extension	MSFT PTE Cloud Mig Field Test 2	Customer	Customer		<input checked="" type="checkbox"/>
Table Extension	MSFT PTE Cloud Mig Field Test 3	G_L Entry	G_L Entry		<input checked="" type="checkbox"/>
Table Extension	MSFT PTE Cloud Mig Field Test 3	Customer	Customer		<input checked="" type="checkbox"/>
→ Table					<input checked="" type="checkbox"/>



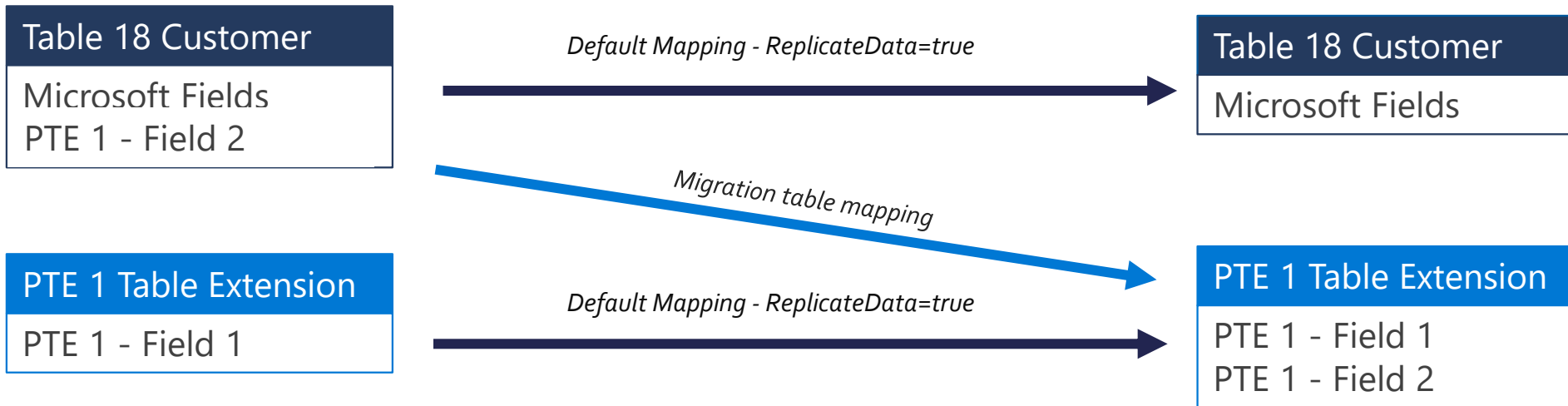
Provide table mappings via code

Subscribe to:

OnInsertDefaultTableMappings event
codeunit 4001 "Hybrid Cloud Management"

Table mappings will be inserted after the setup wizard is completed

Not supported – Multiple tables as a source



The migration of PTE1 Table extension will not work as it has 2 source tables

Solution 1 – Move field to PTE in OnPrem instance



Table 18 Customer
Microsoft Fields

Default Mapping - ReplicateData=true



Table 18 Customer
Microsoft Fields

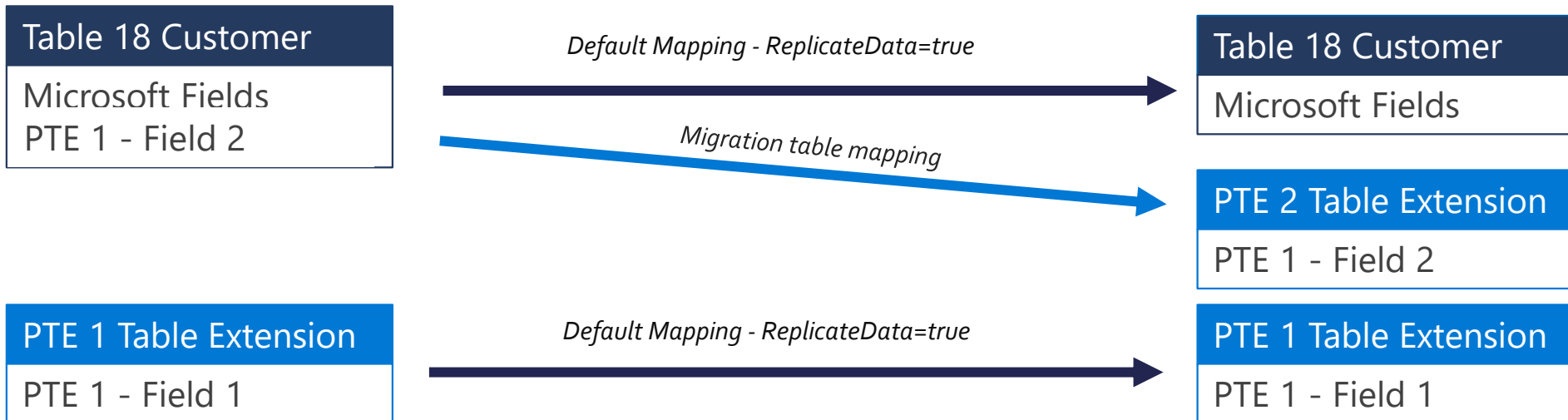
PTE 1 Table Extension
PTE 1 - Field 1
PTE 1 - Field 2

Default Mapping - ReplicateData=true

PTE 1 Table Extension
PTE 1 - Field 1
PTE 1 - Field 2

The migration of PTE1 Table extension will not work as it has 2 source tables

Solution 2 – Introduce a new PTE and use mapping



Company limit per environment

Company limit (per environment)

Setting	Description	Limit
Max companies	The maximum number of companies that can be contained in one environment.	300

Tip

This company limit will take effect in 2023 wave 1 release. When in effect, exceeding the limit will prevent you from doing some environment operations. For information about the consequences of exceeding the limit, go to [Operational challenges with many companies per environment](#).

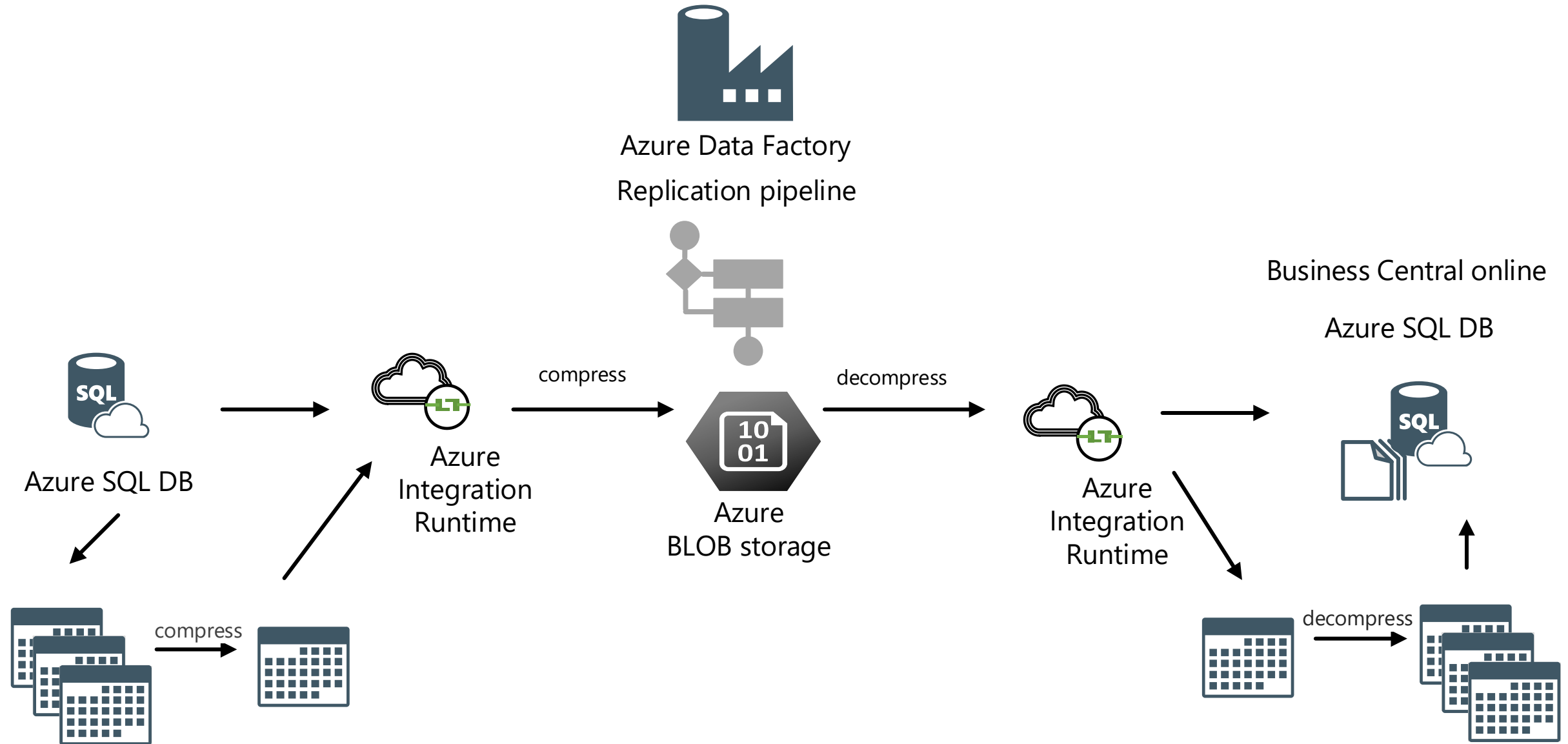
If you already have more than 300 companies in one environment, distribute them across more environments to avoid problems later.

Performance improvements

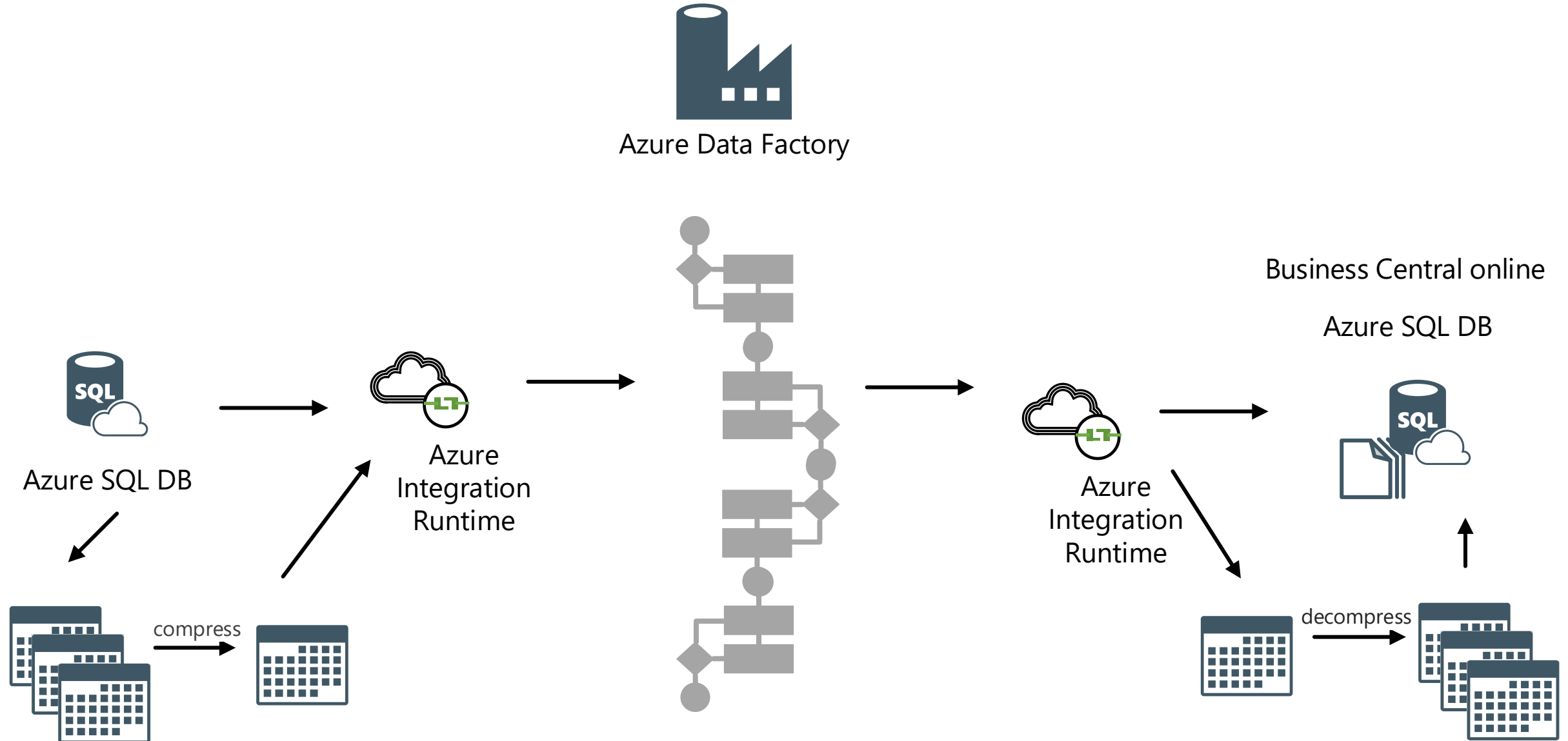
What's new

- Performance for Azure SQL
 - Increased stability by removing staging blobs from Cloud Migration flow

Cloud migration runs



New cloud migration runs from Azure SQL DB



What's new

- Performance for Azure SQL
 - Increased stability by removing staging blobs from Cloud Migration flow
- Performance for delta syncs with change tracking
 - Enforced change tracking for minimum of three days on source
 - Change tracking retention period can be increased
- Copy for large tables with many indexes is faster
 - Indexes are dropped and rebuilt in SaaS DB
- Limitations on table metadata were removed
 - Significantly increased number of extensions and tables moved per replication run

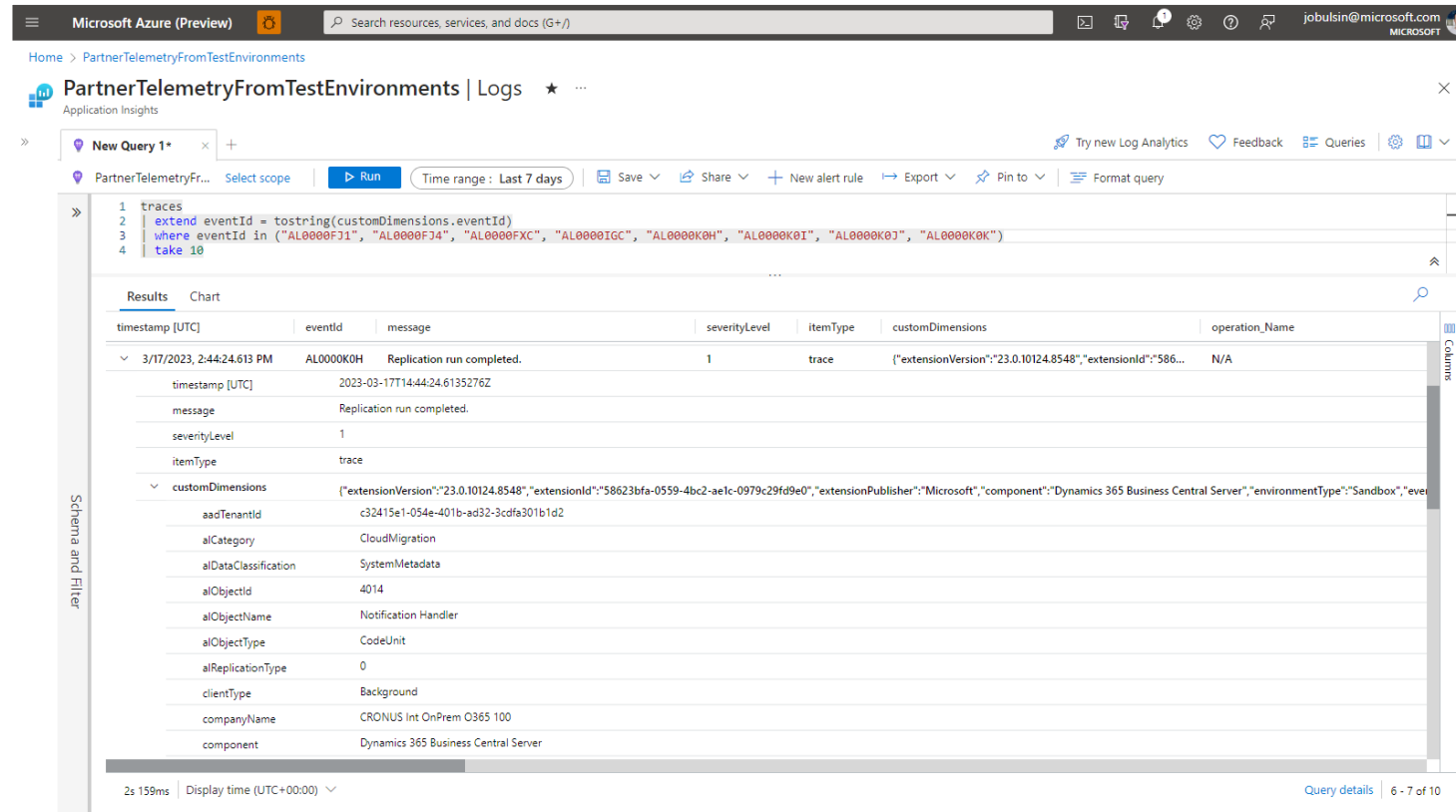
Performance recommendations

- Update statistics and reorganize indexes on the source database
- Deploy the OnPrem database to Azure SQL before starting Cloud Migration for large migrations
- Be mindful of the number of tables being moved
 - Set ReplicateData = False for application tables that are not needed
 - Uninstall extensions that are not migrating
- For On-Premises SQL Server
 - Integration Runtime host machine meets the requirements
 - Use a dedicated SQL Server with a copy of the source database
- For Azure SQL
 - Monitor CPU and memory utilization
 - Scale the database up in case of high consumption

Application Insights

Application Insights signals for setup and replication runs

- New Application Insights signals to track cloud migration setup and replication runs
- Power BI app reporting on cloud migration



The screenshot displays the Microsoft Azure portal interface for Application Insights. The main heading is "PartnerTelemetryFromTestEnvironments | Logs". A query editor shows the following Kusto query:

```
1 traces
2 | extend eventId = tostring(customDimensions.eventId)
3 | where eventId in ("AL0000F31", "AL0000F34", "AL0000FXC", "AL0000IGC", "AL0000K0H", "AL0000K0I", "AL0000K0J", "AL0000K0K")
4 | take 10
```

The results table shows a single log entry for a completed replication run:

timestamp [UTC]	eventId	message	severityLevel	itemType	customDimensions	operation_Name
3/17/2023, 2:44:24.613 PM	AL0000K0H	Replication run completed.	1	trace	{"extensionVersion":"23.0.10124.8548";"extensionId":"58623bfa-0559-4bc2-aec1-0979c29fd9e0";"extensionPublisher":"Microsoft";"component":"Dynamics 365 Business Central Server";"environmentType":"Sandbox";"event"	N/A

The "customDimensions" section is expanded to show the following details:

- aadTenantId: c32415e1-054e-401b-ad32-3cdfa301b1d2
- alCategory: CloudMigration
- alDataClassification: SystemMetadata
- alObjectId: 4014
- alObjectName: Notification Handler
- alObjectType: CodeUnit
- alReplicationType: 0
- clientType: Background
- companyName: CRONUS Int OnPrem O365 100
- component: Dynamics 365 Business Central Server

The interface also shows a "Schema and Filter" sidebar on the left and a "Query details" footer at the bottom right.

Application Insights signals

Setup & replication runs

- AL0000K0J
 - Replication Run Started
- AL0000K0H
 - Replication Run Completed
- AL0000IGC
 - Cloud Migration Disabled
- And more

Data upgrade

- LC0175
 - Data Upgrade Started
- LC0176
 - Data Upgrade Completed
- LC0177
 - Data Upgrade Failed
- And more

Roadmap and plans

Roadmap and plans

- Ability to stop the in-progress run
- New UI – Warnings and your feedback
wrong table mappings, per database tables overwritten, missing data...
- Ability to exclude/include the table from the cloud migration
- Remove/Increase the limit of number of companies moved in one replication run

Watch other relevant launch event sessions



What's new in environment administration



Get data-driven with telemetry



Search

DYNAMICS 365 BUSINESS CENTRAL DE... +

Cloud Migration

Test automation

MVPs 18

App Development 20+

AppSource 16



Cloud Migration

This group is for questions and information regarding managing migrations to Business C...

✓ Joined

NEW CONVERSATIONS ALL CONVERSATIONS FILES SEARCH

Update Question Poll Praise Announcement

Share something with this group...

MEMBERS (1087)



Join us on Yammer

<https://aka.ms/BCCloudMigrationYammer>

Thank you