

Example migrations

dotnet ef

- First you need to have installed [EF Core tools](#). Run the following command to install them:

```
dotnet tool install --global dotnet-ef
```

- Open a terminal and navigate to the **Harmony.Persistence** root folder
- Select a database provider and configure the connection strings in the appsettings.json files for Harmony.Api, Harmony.Automations & Harmony.Notification projects.

Examples:

```
"DatabaseProvider": "PostgreSQL",  
"ConnectionStrings": {  
  "HarmonyConnection":  
    "Host=localhost;Database=Harmony;Username=postgres;Password=MySuperSecretPassword"  
},
```

```
"DatabaseProvider": "SqlServer",  
"ConnectionStrings": {  
  "HarmonyConnection": "Server=.;Database=Harmony;Integrated  
Security=True;TrustServerCertificate=True"  
},
```

- Based on your database provider, apply the already existing migrations

SQL Server

Apply migrations

```
dotnet ef database update --context HarmonyContext --startup-project  
"../../Services/Harmony.Api/Harmony.Api.csproj" -- --DatabaseProvider SqlServer
```

```
dotnet ef database update --context NotificationContext --startup-project  
"../../Services/Harmony.Notifications/Harmony.Notifications.csproj" -- --  
DatabaseProvider SqlServer
```

```
dotnet ef database update --context AutomationContext --startup-project
"../../Services/Harmony.Automations/Harmony.Automations.csproj" -- --
DatabaseProvider SqlServer
```

Adding migrations (required only for new development)

```
dotnet ef migrations add Initial -o HarmonyContextMigrations --context
HarmonyContext --project ../Harmony.Persistence.Migrations.SqlServer --startup-
project " ../../Services/Harmony.Api/Harmony.Api.csproj" -- --DatabaseProvider
SqlServer
```

```
Add-Migration MyCustomMigrationName -OutputDir HarmonyContextMigrations -Context
HarmonyContext -Project Harmony.Persistence.Migrations.SqlServer -StartUpProject
Harmony.Api
```

```
dotnet ef migrations add Initial -o AutomationContextMigrations --context
AutomationContext --project ../Harmony.Persistence.Migrations.SqlServer --startup-
project " ../../Services/Harmony.Automations/Harmony.Automations.csproj" -- --
DatabaseProvider SqlServer
```

```
Add-Migration MyCustomMigrationName -OutputDir AutomationContextMigrations -
Context AutomationContext -Project Harmony.Persistence.Migrations.SqlServer -
StartUpProject Harmony.Automations
```

```
dotnet ef migrations add Initial -o NotificationContextMigrations --context
NotificationContext --project ../Harmony.Persistence.Migrations.SqlServer --
startup-project
" ../../Services/Harmony.Notifications/Harmony.Notifications.csproj" -- --
DatabaseProvider SqlServer
```

```
Add-Migration MyCustomMigrationName -OutputDir NotificationContextMigrations -
Context NotificationContext -Project Harmony.Persistence.Migrations.SqlServer -
StartUpProject Harmony.Notifications
```

PostgreSQL

Apply migrations

```
dotnet ef database update --context HarmonyContext --startup-project
"../../Services/Harmony.Api/Harmony.Api.csproj" -- --DatabaseProvider PostgreSQL
```

```
dotnet ef database update --context NotificationContext --startup-project
"../../Services/Harmony.Notifications/Harmony.Notifications.csproj" -- --
DatabaseProvider PostgreSQL
```

```
dotnet ef database update --context AutomationContext --startup-project
"../../Services/Harmony.Automations/Harmony.Automations.csproj" -- --
DatabaseProvider PostgreSQL
```

Adding migrations (required only for new development)

```
dotnet ef migrations add Initial -o HarmonyContextMigrations --context
HarmonyContext --project ../Harmony.Persistence.Migrations.PostgreSql --startup-
project " ../../Services/Harmony.Api/Harmony.Api.csproj" -- --DatabaseProvider
PostgreSQL
```

```
Add-Migration MyCustomMigrationName -OutputDir HarmonyContextMigrations -Context
HarmonyContext -Project Harmony.Persistence.Migrations.PostgreSql -StartUpProject
Harmony.Api
```

```
dotnet ef migrations add Initial -o AutomationContextMigrations --context
AutomationContext --project ../Harmony.Persistence.Migrations.PostgreSql --
startup-project " ../../Services/Harmony.Automations/Harmony.Automations.csproj" --
--DatabaseProvider PostgreSQL
```

```
Add-Migration MyCustomMigrationName -OutputDir AutomationContextMigrations -
Context AutomationContext -Project Harmony.Persistence.Migrations.PostgreSql -
StartUpProject Harmony.Automations
```

```
dotnet ef migrations add Initial -o NotificationContextMigrations --context
NotificationContext --project ../Harmony.Persistence.Migrations.PostgreSql --
startup-project
" ../../Services/Harmony.Notifications/Harmony.Notifications.csproj" -- --
DatabaseProvider PostgreSQL
```

```
Add-Migration MyCustomMigrationName -OutputDir NotificationContextMigrations -  
Context NotificationContext -Project Harmony.Persistence.Migrations.PostgreSql -  
StartUpProject Harmony.Notifications
```