Here is an installation guide for setting up the **DMSMicroservice** project, including the **ApiGateway** and other services:

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**Installation Guide for DMSMicroservice**

**Prerequisites**

1. **.NET 9 SDK**: Ensure that the .NET 9 SDK is installed on your machine.
2. **Database**: Install and configure a SQL Server instance.
3. **Azure Storage Account**: If using Azure Blob Storage, ensure you have an Azure Storage Account set up.
4. **Development Environment**: Install Visual Studio 2022 with the following workloads:

* ASP.NET and web development
* Azure development (if deploying to Azure)

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**Step 1: Clone the Repository**

1. Clone the repository to your local machine:

gh repo clone AjitJKTech/DMSMicroservice

cd DMSMicroservice

**Step 2: Configure the appsettings.json Files**

Each service has its own appsettings.json file. Update the following configurations:

**ApiGateway (DMSMicroservice.ApiGateway/appsettings.json)**

* Update the **JWT:Key** with a secure key for authentication.
* Ensure the **DownstreamHostAndPorts** match the ports of the respective services.
* Example:

*"JWT": {*

*"Key": "YourSecureKeyHere"*

*},*

**AuthService (DMSMicroservice.AuthService/appsettings.json)**

* Configure the database connection string:

*"ConnectionStrings": {*

*"DefaultConnection": "Server=localhost;Database=AuthDb;Trusted\_Connection=True;MultipleActiveResultSets=true"*

*}*

***UserManagementService (DMSMicroservice.UserManagementService/appsettings.json)***

* *Configure the database connection string:*

*"ConnectionStrings": {*

*"DefaultConnection": "Server=localhost;Database=UserManagementDb;Trusted\_Connection=True;MultipleActiveResultSets=true"*

*}*

**DocumentManagementService (DMSMicroservice.DocumentManagementService/appsettings.json)**

* Add Azure Blob Storage configuration:

"AzureBlobStorage": {

"ConnectionString": "YourAzureBlobStorageConnectionString",

"ContainerName": "YourContainerName"

}

**Step 3: Apply Migrations**

Run the following commands for each service to apply database migrations:

AuthService

cd DMSMicroservice.AuthService

dotnet ef database update

UserManagementService

cd DMSMicroservice.UserManagementService

dotnet ef database update

**Step 4: Run the Services**

1. Open the solution in Visual Studio 2022.
2. Set the solution to start multiple projects:
   * DMSMicroservice.ApiGateway
   * DMSMicroservice.AuthService
   * DMSMicroservice.UserManagementService
   * DMSMicroservice.DocumentManagementService
3. Press F5 to start the services.

**Step 5: Test the API Gateway**

Use tools like Postman or Swagger to test the API Gateway endpoints. The base URL will be:

[https://localhost:<ApiGatewayPort](https://localhost:%3cApiGatewayPort)>

**Step 6: Deployment (Optional)**

* Deploy the services to your preferred environment (e.g., Azure, Docker, or on-premises).
* Update the **DownstreamHostAndPorts** in the **ApiGateway** configuration to point to the deployed services.