

Registry

Providers /

microsoft /

fabric /

Version 1.3.0 ▾

Latest Version

fabric 

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Authenticating using a Service Principal and Client Secret


⚠ Warning

We recommend using either a [Service Principal with OpenID Connect \(OIDC\)](#) or [Managed Service Identity \(MSI\)](#) authentication when running Terraform non-interactively (such as when running Terraform in a CI server), and authenticating using the Azure CLI when running Terraform locally.

Setting up Entra Application and Service Principal

Follow [Creating an App Registration for the Service Principal context \(SPN\)](#) guide.

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(OIDC)

Creating an
App
Registration
for the Service
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context (SPN)

Creating an

Creating Client Secret

1. In the [Microsoft Entra admin center](#), in **App registrations**, select your application.
2. Select **Certificates & secrets > Client secrets > New client secret**.
3. Add a description for your client secret.
4. Select an expiration for the secret or specify a custom lifetime.
 - Client secret lifetime is limited to two years (24 months) or less. You can't specify a custom lifetime longer than 24 months.
 - Microsoft recommends that you set an expiration value of less than 12 months.
5. Select **Add**.
6. Record the secret's value for use in your client application code. This secret value is never displayed again after you leave this page.

For application security recommendations,

see [Microsoft identity platform best practices and recommendations](#).

Configuring Terraform to use the Client Secret

Environment Variables

Our recommended approach is storing the credentials as Environment Variables, for example:

```
# sh
export FABRIC_TENANT_ID="00000000-0
export FABRIC_CLIENT_ID="00000000-0
export FABRIC_CLIENT_SECRET="YourCl
```

[Copy](#)

```
# PowerShell
$env:FABRIC_TENANT_ID = '00000000-0000-0
$env:FABRIC_CLIENT_ID = '00000000-0000-0
$env:FABRIC_CLIENT_SECRET = 'YourClientS
```

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The following Terraform and Provider blocks can be specified, where `0.0.0` is the version of the Fabric Provider that you'd like to use:

```
# We strongly recommend us
terraform {
  required_version = ">= 1.8, < 2.0
  required_providers {
    fabric = {
```

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```
        source = "microsoft/fabric"
        version = "0.0.0" # Check for
    }
}

# Configure the Microsoft Fabric Pr
provider "fabric" {}
```

Provider Block

It's also possible to configure these variables either directly or from variables in your provider block.

The following Terraform and Provider blocks can be specified, where `0.0.0` is the version of the Fabric Provider that you'd like to use:

```
variable "client_secret" {
    description = "The client secret."
    type        = string
    sensitive   = true
}

# We strongly recommend using the r
terraform {
    required_version = ">= 1.8, < 2.0"
    required_providers {
        fabric = {
            source = "microsoft/fabric"
            version = "0.0.0" # Check for
        }
    }
}

# Configure the Microsoft Fabric Pr
```

Creating a "secret.tfvars" file to store your credentials

specifying a local variables file:

Below you will find an example of how to create your `secret.tfvars` file, remember to specify the correct path of it when executing. We include `"*.tfvars"` in `.gitignore` to avoid save the secrets in it repository.

In the terraform documentation [Protect sensitive input variables](#) you can find more examples.

The following Terraform and Provider blocks can be specified, where `0.0.0` is the version of the Fabric Provider that you'd like to use:

```
variable "tenant_id" {  
  description = "The tenant id."  
  type        = string  
}  
  
variable "client_id" {  
  description = "The client id."  
  type        = string  
}  
  
variable "client_secret" {  
  description = "The client secret."  
  type        = string  
  sensitive   = true  
}  
  
# We strongly recommend using the r  
terraform {  
  required_version = ">= 1.8, < 2.0"  
  required_providers {  
    fabric = {  
      source  = "microsoft/fabric"  
      version = "0.0.0" # Check for  
    }  
  }  
}  
  
# Configure the Microsoft Fabric Pr  
provider "fabric" {  
  tenant_id    = var.tenant_id  
  client_id     = var.client_id  
  client_secret = var.client_secret  
}
```

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INTRO



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