Azure Key Vault Module 🔑

This Terraform module deploys an **Azure Key Vault** resource, primarily designed to securely store secrets and SSH keys.

Features

- * Deploys an Azure Key Vault with a dynamically generated name suffix ('kv-secure-xxxxxx').
- * Configures **Soft Delete** with a 7-day retention period.
- * Sets an initial **Access Policy** for a specified principal (`object_id`), granting comprehensive permissions for secret management.

Prerequisites

To use this module, you must have:

- 1. An Azure Resource Group.
- 2. Your Azure **Tenant ID**.
- 3. The **Object ID** (GUID) of the Azure AD user, group, or service principal that requires initial access to the Key Vault secrets.

Usage

To include this module in your Terraform configuration, add a block similar to the following, replacing the variable values with your specific details:

Azure Key Vault Security Configuration Module 🔒



This Terraform module manages **secrets** and **access policies** for an **existing** Azure Key Vault. It's designed to separate the creation of the vault itself from the management of its sensitive contents and granular access controls.

Features

- * **Secret Injection:** Creates a specified secret (e.g., a database password) within the target Key Vault.
- * **Granular Access Policy:** Grants "Get" access to a specific principal, typically a Virtual Machine's Managed Identity, allowing the application running on the VM to retrieve the secret.

Prerequisites

To use this module, you must have:

- 1. An **existing** Azure Key Vault deployed (and its ID).
- 2. The **Tenant ID** of the Key Vault.
- 3. The **Object ID** of the Managed Identity (or other principal) that needs access to the secrets.
- 4. The secret value (e.g., database password) you intend to store.

Usage

Reference this module in your root configuration, ensuring you pass the required outputs from the Key Vault creation module and the sensitive data.

```
```terraform
module "kv_security_config" {
 source = "./modules/security" # Adjust path as necessary
 # Required inputs from the Key Vault module output
 key_vault_id = module.key_vault.key_vault_id
 tenant id = data.azurerm client config.current.tenant id
 # Secret value (should be passed securely, e.g., from an input variable or local file)
 database password secret value = var.app db password
 # Object ID for the principal that needs read access (e.g., a VM's Managed Identity)
 private_vm_object_id = azurerm_managed_identity.vm_identity.principal_id
}
```