Package 'AzureVMmetadata'

October 12, 2022

Title Interface to Azure Virtual Machine Instance Metadata

Version 1.0.1

Description A simple interface to the instance metadata for a virtual machine running in Microsoft's 'Azure' cloud. This provides information about the VM's configuration, such as its processors, memory, networking, storage, and so on. Part of the 'AzureR' family of packages.

URL https://github.com/Azure/AzureVMmetadata

https://github.com/Azure/AzureR

BugReports https://github.com/Azure/AzureVMmetadata/issues

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Depends R (>= 3.3)

Imports openssl, httr (>= 1.3)

Suggests AzureAuth, AzureVM

RoxygenNote 6.1.1

NeedsCompilation no

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Repository CRAN

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R topics documented:

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instance   *Metadata for an Azure VM*

Description

Metadata for an Azure VM

Usage

```
instance

attested

events

update_instance_metadata()

update_attested_metadata(nonce = NULL)

update_scheduled_events()
```

Arguments

nonce   For update_attested_metadata, an optional string to use as a nonce.

Format

`instance`, `attested` and `events` are environments.

Details

The `instance`, `attested` and `events` environments contain the instance metadata, attested metadata, and scheduled events respectively for a VM running in Azure. `instance` and `attested` are automatically populated when you load the AzureVMmetadata package, or you can manually populate them yourself with the `update_instance_metadata` and `update_attested_metadata` functions. `events` is not populated at package startup, because calling the scheduled event service can require up to several minutes if it is not running already. You can manually populate it with the `update_scheduled_events` function.

If AzureVMmetadata is loaded in an R session that is *not* running in an Azure VM, all the metadata environments will be empty.

Value

The updating functions return the contents of their respective environments as lists, invisibly.

See Also

[in_azure_vm](#)

[Instance metadata service documentation](#)

To obtain OAuth tokens from the metadata service, see [AzureAuth::get_managed_token](#)

Examples

```
## these will only be meaningful when run in an Azure VM

# all compute metadata
AzureVMmetadata::instance$compute

# VM name and ID
AzureVMmetadata::instance$compute$name
AzureVMmetadata::instance$compute$vmId

# VM resource details: subscription, resource group, resource ID
AzureVMmetadata::instance$compute$subscriptionId
AzureVMmetadata::instance$compute$resourceGroupName
AzureVMmetadata::instance$compute$resourceId

# all network metadata
AzureVMmetadata::instance$network

# IPv4 address details (1st network interface)
AzureVMmetadata::instance$network$interface[[1]]$ipv4
```

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in_azure_vm *Check if R is running in an Azure VM*

Description

Check if R is running in an Azure VM

Usage

```
in_azure_vm()

get_vm_cert(nonce = NULL)
```

Arguments

nonce   An optional string to use as a nonce.

Details

These functions check if R is running in an Azure VM by attempting to contact the instance meta-data host. `in_azure_vm` simply returns TRUE or FALSE based on whether it succeeds. `get_vm_cert` provides a stronger check, by retrieving the VM's certificate and throwing an error if this is not found. Note that you should still verify the certificate's authenticity before relying on it.

Value

For `in_azure_vm`, a boolean. For `get_vm_cert`, a PKCS-7 certificate object.

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