

Package ‘AzureVMmetadata’

May 6, 2026

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>

License MIT + file LICENSE

Depends R (>= 3.3)

Imports openssl, httr (>= 1.3)

Suggests AzureAuth, AzureVM

RoxygenNote 6.1.1

NeedsCompilation no

Author Hong Ooi [aut, cre],
Microsoft [cph]

Maintainer Hong Ooi <hongooi73@gmail.com>

Repository CRAN

Date/Publication 2020-10-14 23:40:14 UTC

Contents

instance	2
in_azure_vm	3
Index	5

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
```

`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 metadata 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.

Index

* datasets

instance, [2](#)

attested (instance), [2](#)

AzureAuth::get_managed_token, [3](#)

events (instance), [2](#)

get_vm_cert (in_azure_vm), [3](#)

in_azure_vm, [3](#), [3](#)

instance, [2](#)

update_attested_metadata (instance), [2](#)

update_instance_metadata (instance), [2](#)

update_scheduled_events (instance), [2](#)