Name	Description	Type	Status
az vm	Manage Linux or Windows virtual machines.	Core and Extension	GA
az vmss	Manage groupings of virtual machines in an Azure Virtual Machine Scale Set (VMSS).	Core	GA
az vmware	Commands to manage Azure VMware Solution.	Extension	GA
az webapp	Manage web apps.	Core and Extension	GA
az webpubsub	Commands to manage Webpubsub.	Extension	GA
az workloads	Manage workloads.	Extension	Preview

az configure

🖉 Edit

Manage Azure CLI configuration. This command is interactive.

For automation scenarios or to set all available options, use the new `az config`.

Azure CLI

```
az configure [--defaults]
             [--list-defaults {false, true}]
             [--scope {global, local}]
```

Examples

Set default resource group, webapp and VM names.

Azure CLI
`az configure --defaults group=myRG web=myweb vm=myvm`

Clear default webapp and VM names.

Azure CLI
`az configure --defaults vm='' web=''`

Optional Parameters

`--defaults -d`

Space-separated 'name=value' pairs for common argument defaults.

`--list-defaults -l`

List all applicable defaults.

Accepted values: false, true

`--scope`

Scope of defaults. Using "local" for settings only effective under current folder.

Accepted values: global, local

Default value: global

▼ Global Parameters

`--debug`

Increase logging verbosity to show all debug logs.

`--help -h`

Show this help message and exit.

`--only-show-errors`

Only show errors, suppressing warnings.

`--output -o`

Output format.
Accepted values: json, jsonc, none, table, tsv, yaml, yamlc
Default value: json

`--query`

JMESPath query string. See http://jmespath.org/ for more information and examples.

`--subscription`

Name or ID of subscription. You can configure the default subscription using `az account set -s NAME_OR_ID`.

`--verbose`

Increase logging verbosity. Use --debug for full debug logs.

az feedback

Send feedback to the Azure CLI Team.

This command is interactive. If possible, it launches the default web browser to open GitHub issue creation page with the body auto-generated and pre-filled. You will have a chance to edit the issue body before submitting it.

Azure CLI
az feedback

▼ Global Parameters

--debug

Increase logging verbosity to show all debug logs.

--help -h

Show this help message and exit.

--only-show-errors

Only show errors, suppressing warnings.

`--output -o`

> Output format.
>
> Accepted values: json, jsonc, none, table, tsv, yaml, yamlc
>
> Default value: json

`--query`

> JMESPath query string. See http://jmespath.org/   for more information and examples.

`--subscription`

> Name or ID of subscription. You can configure the default subscription using `az account set -s NAME_OR_ID`.

`--verbose`

> Increase logging verbosity. Use --debug for full debug logs.

az find

I'm an AI robot, my advice is based on our Azure documentation as well as the usage patterns of Azure CLI and Azure ARM users. Using me improves Azure products and documentation.

Azure CLI

```
az find [<CLI_TERM>]
```

Examples

Give me any Azure CLI group and I'll show the most popular commands within the group.

Azure CLI
`az find "az storage"`

Give me any Azure CLI command and I'll show the most popular parameters and subcommands.

Azure CLI
`az find "az monitor activity-log list"`

You can also enter a search term, and I'll try to help find the best commands.

Azure CLI
`az find "arm template"`

Optional Parameters

`<CLI_TERM>`

An Azure CLI command or group for which you need an example.

▼ Global Parameters

--debug

    Increase logging verbosity to show all debug logs.

--help -h

    Show this help message and exit.

--only-show-errors

    Only show errors, suppressing warnings.

--output -o

    Output format.
    Accepted values: json, jsonc, none, table, tsv, yaml, yamlc
    Default value: json

--query

    JMESPath query string. See http://jmespath.org/   for more information and examples.

--subscription

    Name or ID of subscription. You can configure the default subscription using `az account set -s NAME_OR_ID`.

--verbose

    Increase logging verbosity. Use --debug for full debug logs.

az init

Experimental

This command is experimental and under development. Reference and support levels: **https://aka.ms/CLI_refstatus**

It's an effortless setting up tool for configs.

Azure CLI
`az init`

▼ Global Parameters

`--debug`

Increase logging verbosity to show all debug logs.

`--help -h`

Show this help message and exit.

`--only-show-errors`

Only show errors, suppressing warnings.

`--output -o`

Output format.

Accepted values: json, jsonc, none, table, tsv, yaml, yamlc

Default value: json

--query

JMESPath query string. See http://jmespath.org/ for more information and examples.

--subscription

Name or ID of subscription. You can configure the default subscription using `az account set -s NAME_OR_ID`.

--verbose

Increase logging verbosity. Use --debug for full debug logs.

az interactive

Preview

This command is in preview and under development. Reference and support levels: **https://aka.ms/CLI_refstatus**

Start interactive mode. Installs the Interactive extension if not installed already.

For more information on interactive mode, see: https://azure.microsoft.com/blog/welcome-to-azure-cli-shell/ .

Azure CLI

```
az interactive [--style {bg, br, contrast, default, grey, halloween, neon, none, pastel, primary, purple,
quiet}]
                [--update]
```

Optional Parameters

--style -s

The colors of the shell.

Accepted values: bg, br, contrast, default, grey, halloween, neon, none, pastel, primary, purple, quiet

--update

Update the Interactive extension to the latest available.

▼ Global Parameters

--debug

Increase logging verbosity to show all debug logs.

--help -h

Show this help message and exit.

--only-show-errors

Only show errors, suppressing warnings.

--output -o

Output format.

Accepted values: json, jsonc, none, table, tsv, yaml, yamlc

Default value: json

--query

JMESPath query string. See http://jmespath.org/   for more information and examples.

--subscription

Name or ID of subscription. You can configure the default subscription using `az account set -s NAME_OR_ID`.

--verbose

Increase logging verbosity. Use --debug for full debug logs.

az login

🖉 Edit

Log in to Azure.

By default, this command logs in with a user account. Azure CLI uses Web Account Manager (WAM) on Windows, and browser-based login on Linux and macOS by default. If WAM or a web browser is not available, Azure CLI will fall back to device code login.

[WARNING] Authentication with username and password in the command line is strongly discouraged. Use one of the recommended authentication methods based on your requirements. For more details, see https://go.microsoft.com/fwlink/?

linkid=2276314

To log in with a service principal, specify --service-principal.

To log in with a managed identity, specify --identity.

For more details, see https://learn.microsoft.com/cli/azure/authenticate-azure-cli.

Azure CLI

```
az login [--allow-no-subscriptions]
         [--federated-token]
         [--identity]
         [--password]
         [--scope]
         [--service-principal]
         [--tenant]
         [--use-cert-sn-issuer]
         [--use-device-code]
         [--username]
```

Examples

Log in interactively.

Azure CLI

```
az login
```

Log in with username and password. This doesn't work with Microsoft accounts or accounts that have two-factor authentication enabled. Use -p=secret if the first character of the password is '-'.

```
Azure CLI

az login -u johndoe@contoso.com -p VerySecret
```

Log in with a service principal using client secret. Use -p=secret if the first character of the password is '-'.

```
Azure CLI

az login --service-principal -u http://azure-cli-2016-08-05-14-31-15 -p VerySecret --tenant
contoso.onmicrosoft.com
```

Log in with a service principal using client certificate.

```
Azure CLI

az login --service-principal -u http://azure-cli-2016-08-05-14-31-15 -p ~/mycertfile.pem --tenant
contoso.onmicrosoft.com
```

Log in with a system-assigned managed identity.

```
Azure CLI

az login --identity
```

Log in with a user-assigned managed identity. You must specify the client ID, object ID or resource ID of the user-assigned managed identity with --username.

```
Azure CLI

az login --identity --username 00000000-0000-0000-0000-000000000000
```

Optional Parameters

`--allow-no-subscriptions`

Support access tenants without subscriptions. It's uncommon but useful to run tenant level commands, such as 'az ad'.

Default value: False

`--federated-token`

Federated token that can be used for OIDC token exchange.

`--identity -i`

Log in using the Virtual Machine's identity.

Default value: False

`--password -p`

Credentials like user password, or for a service principal, provide client secret or a pem file with key and public certificate. Will prompt if not given.

`--scope`

Used in the /authorize request. It can cover only one static resource.

`--service-principal`

The credential representing a service principal.

`--tenant -t`

The AAD tenant, must provide when using service principals.

`--use-cert-sn-issuer`

Used with a service principal configured with Subject Name and Issuer Authentication in order to support automatic certificate rolls.

`--use-device-code`

Use CLI's old authentication flow based on device code. CLI will also use this if it can't launch a browser in your behalf, e.g. in remote SSH or Cloud Shell.

Default value: False

`--username -u`

User name, service principal, or managed service identity ID.

▼ Global Parameters

`--debug`

Increase logging verbosity to show all debug logs.

`--help -h`

Show this help message and exit.

`--only-show-errors`

Only show errors, suppressing warnings.

`--output -o`

Output format.

Accepted values: json, jsonc, none, table, tsv, yaml, yamlc

Default value: json

`--query`

JMESPath query string. See http://jmespath.org/   for more information and examples.

`--subscription`

Name or ID of subscription. You can configure the default subscription using `az account set -s NAME_OR_ID`.

`--verbose`

Increase logging verbosity. Use --debug for full debug logs.

az logout

✏️ Edit

Log out to remove access to Azure subscriptions.

Azure CLI
`az logout [--username]`

Optional Parameters

`--username`

Account user, if missing, logout the current active account.

▼ Global Parameters

`--debug`

Increase logging verbosity to show all debug logs.

`--help -h`

Show this help message and exit.

`--only-show-errors`

Only show errors, suppressing warnings.

`--output -o`

Output format.
Accepted values: json, jsonc, none, table, tsv, yaml, yamlc
Default value: json

`--query`

JMESPath query string. See http://jmespath.org/ for more information and examples.

`--subscription`

Name or ID of subscription. You can configure the default subscription using `az account set -s NAME_OR_ID`.

--verbose

Increase logging verbosity. Use --debug for full debug logs.

az next

Experimental

This command is experimental and under development. Reference and support levels: **https://aka.ms/CLI_refstatus**

Recommend the possible next set of commands to take.

There are some custom configurations:

[1] az config set next.execute_in_prompt=True/False Turn on/off the step of executing recommended commands in interactive mode. Turn on by default.

[2] az config set next.recommended_type=all/scenario/command Set the default recommended type. All is the default.

[3] az config set next.output=json/jsonc/none/table/tsv/yaml/yamlc/status Set default output format. Status is the default.

[4] az config set next.command_num_limit={command_amount_limit} Set the limit of recommended command items. 5 is the default.

[5] az config set next.scenario_num_limit={scenario_amount_limit} Set the limit of recommended scenario items. 5 is the default.

[6] az config set next.show_arguments=True/False Show/hide the arguments of recommended items. False is the default.

[7] az config set next.print_help=True/False Enable/disable whether to print help actively before executing each command. False is the default.

Azure CLI

```
az next [--command]
        [--scenario]
```

Optional Parameters

--command -c

Specify this parameter will only recommend commands.

Default value: False

--scenario -s

Specify this parameter will only recommend E2E scenarios.

Default value: False

▼ Global Parameters

--debug

Increase logging verbosity to show all debug logs.

--help -h

Show this help message and exit.

`--only-show-errors`

Only show errors, suppressing warnings.

`--output -o`

Output format.

Accepted values: json, jsonc, none, table, tsv, yaml, yamlc

Default value: json

`--query`

JMESPath query string. See http://jmespath.org/   for more information and examples.

`--subscription`

Name or ID of subscription. You can configure the default subscription using `az account set -s NAME_OR_ID`.

`--verbose`

Increase logging verbosity. Use --debug for full debug logs.

az rest

Invoke a custom request.

This command automatically authenticates using the logged-in credential: If Authorization header is not set, it attaches header `Authorization: Bearer <token>`, where `<token>` is retrieved from AAD. The target resource of the token is derived from --url if --url starts with an endpoint from `az cloud show --query endpoints`. You may also use --resource for a custom resource.

If Content-Type header is not set and --body is a valid JSON string, Content-Type header will default to application/json.

For passing JSON in PowerShell, see https://github.com/Azure/azure-cli/blob/dev/doc/quoting-issues-with-powershell.md .

Azure CLI

```
az rest --uri
        [--body]
        [--headers]
        [--method {delete, get, head, options, patch, post, put}]
        [--output-file]
        [--resource]
        [--skip-authorization-header]
        [--uri-parameters]
```

Examples

Get Audit log through Microsoft Graph

Azure CLI

```
az rest --method get --url https://graph.microsoft.com/beta/auditLogs/directoryAudits
```

Update a Azure Active Directory Graph User's display name

Azure CLI

```
(Bash or CMD)
az rest --method patch --url "https://graph.microsoft.com/v1.0/users/johndoe@azuresdkteam.onmicrosoft.com" --
body "{\"displayName\": \"johndoe2\"}"

(Bash)
az rest --method patch --url "https://graph.microsoft.com/v1.0/users/johndoe@azuresdkteam.onmicrosoft.com" --
body '{"displayName": "johndoe2"}'

(PowerShell)
az rest --method patch --url "https://graph.microsoft.com/v1.0/users/johndoe@azuresdkteam.onmicrosoft.com" --
body '{\"displayName\": \"johndoe2\"}'
```

Get a virtual machine

Azure CLI

```
az rest --method get --uri
/subscriptions/{subscriptionId}/resourceGroups/{resourceGroupName}/providers/Microsoft.Compute/virtualMachines
/{vmName}?api-version=2019-03-01
```

Create a public IP address from body.json file

Azure CLI

```
az rest --method put --url
https://management.azure.com/subscriptions/{subscriptionId}/resourceGroups/{resourceGroupName}/providers/Micro
soft.Network/publicIPAddresses/{publicIpAddressName}?api-version=2019-09-01 --body @body.json
```

List the top three resources (Bash)

Azure CLI

```
az rest --method get --url https://management.azure.com/subscriptions/{subscriptionId}/resources?api-
version=2019-07-01 --url-parameters \$top=3
```

Required Parameters

--uri --url -u

Request URL. If it doesn't start with a host, CLI assumes it as an Azure resource ID and prefixes it with the ARM endpoint of the current cloud shown by `az cloud show --query endpoints.resourceManager`. Common token {subscriptionId} will be replaced with the current subscription ID specified by `az account set`.

Optional Parameters

--body -b

Request body. Use @{file} to load from a file. For quoting issues in different terminals, see https://github.com/Azure/azure-cli/blob/dev/doc/use_cli_effectively.md#quoting-issues .

--headers

Space-separated headers in KEY=VALUE format or JSON string. Use @{file} to load from a file.

--method -m

HTTP request method.
Accepted values: delete, get, head, options, patch, post, put

Default value: get

`--output-file`

Save response payload to a file.

`--resource`

Resource url for which CLI should acquire a token from AAD in order to access the service. The token will be placed in the Authorization header. By default, CLI can figure this out based on --url argument, unless you use ones not in the list of "az cloud show --query endpoints".

`--skip-authorization-header`

Do not auto-append Authorization header.

Default value: False

`--uri-parameters --url-parameters`

Query parameters in the URL. Space-separated queries in KEY=VALUE format or JSON string. Use @{file} to load from a file.

▼ Global Parameters

`--debug`

Increase logging verbosity to show all debug logs.

`--help -h`

Show this help message and exit.

`--only-show-errors`

Only show errors, suppressing warnings.

`--output -o`

Output format.

Accepted values: json, jsonc, none, table, tsv, yaml, yamlc

Default value: json

`--query`

JMESPath query string. See http://jmespath.org/   for more information and examples.

`--subscription`

Name or ID of subscription. You can configure the default subscription using `az account set -s NAME_OR_ID`.

`--verbose`

Increase logging verbosity. Use --debug for full debug logs.

az self-test

Deprecated

This command has been deprecated and will be removed in a future release.

Runs a self-test of the CLI.

Azure CLI
az self-test

▼ Global Parameters

--debug

Increase logging verbosity to show all debug logs.

--help -h

Show this help message and exit.

--only-show-errors

Only show errors, suppressing warnings.

--output -o

Output format.
Accepted values: json, jsonc, none, table, tsv, yaml, yamlc
Default value: json

`--query`

JMESPath query string. See http://jmespath.org/   for more information and examples.

`--subscription`

Name or ID of subscription. You can configure the default subscription using `az account set -s NAME_OR_ID`.

`--verbose`

Increase logging verbosity. Use --debug for full debug logs.

az survey

Take Azure CLI survey.

Help us improve Azure CLI by sharing your experience. This survey should take about 3 minutes. Learn more at https://go.microsoft.com/fwlink/?linkid=2203309   .

Azure CLI
`az survey`

▼ Global Parameters

`--debug`

Increase logging verbosity to show all debug logs.

--help -h

Show this help message and exit.

--only-show-errors

Only show errors, suppressing warnings.

--output -o

Output format.

Accepted values: json, jsonc, none, table, tsv, yaml, yamlc

Default value: json

--query

JMESPath query string. See http://jmespath.org/   for more information and examples.

--subscription

Name or ID of subscription. You can configure the default subscription using `az account set -s NAME_OR_ID`.

--verbose

Increase logging verbosity. Use --debug for full debug logs.

az upgrade

Preview

This command is in preview and under development. Reference and support levels: **https://aka.ms/CLI_refstatus**

Upgrade Azure CLI and extensions.

Azure CLI

```
az upgrade [--all {false, true}]
           [--allow-preview {false, true}]
           [--yes]
```

Optional Parameters

--all

Enable updating extensions as well.

Accepted values: false, true

Default value: true

--allow-preview --allow-preview-extensions

Include preview packages for extension installation, if exists.

Accepted values: false, true

--yes -y

Do not prompt for checking release notes.

▼ Global Parameters

--debug

   Increase logging verbosity to show all debug logs.

--help -h

   Show this help message and exit.

--only-show-errors

   Only show errors, suppressing warnings.

--output -o

   Output format.
   Accepted values: json, jsonc, none, table, tsv, yaml, yamlc
   Default value: json

--query

   JMESPath query string. See http://jmespath.org/   for more information and examples.

--subscription

   Name or ID of subscription. You can configure the default subscription using `az account set -s NAME_OR_ID`.

--verbose

   Increase logging verbosity. Use --debug for full debug logs.

az version

Show the versions of Azure CLI modules and extensions in JSON format by default or format configured by --output.

Azure CLI
az version

▼ Global Parameters

--debug

Increase logging verbosity to show all debug logs.

--help -h

Show this help message and exit.

--only-show-errors

Only show errors, suppressing warnings.

--output -o

Output format.
Accepted values: json, jsonc, none, table, tsv, yaml, yamlc
Default value: json

`--query`

JMESPath query string. See http://jmespath.org/   for more information and examples.

`--subscription`

Name or ID of subscription. You can configure the default subscription using `az account set -s NAME_OR_ID`.

`--verbose`

Increase logging verbosity. Use --debug for full debug logs.