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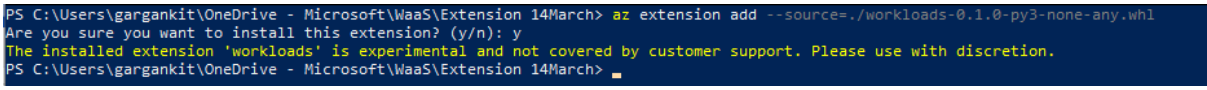
Introduction

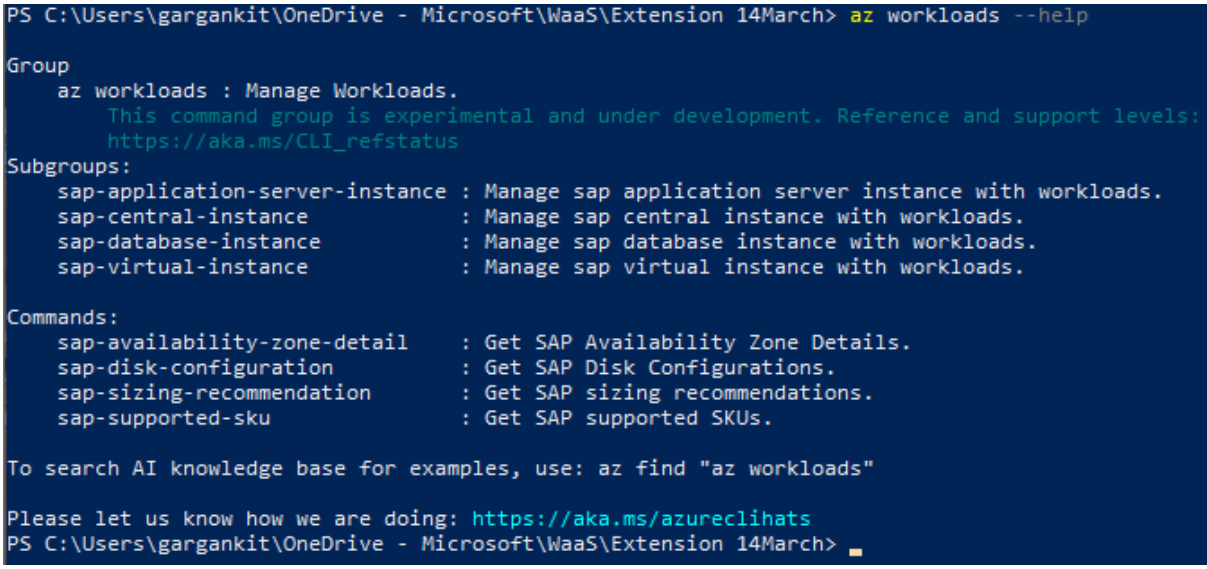
The different features of Azure Center for SAP solutions (ACSS) are available from the command line interface (CLI). This document will guide you on how to install Azure CLI and the ACSS extension and then also walk you through the different commands available for ACSS in Azure CLI.

Install Extension

1. Install Azure CLI: How to install the Azure CLI | Microsoft Docs
2. Install Python
3. Make sure workloads extension is not installed using “az extension list”
    a. This doc can be used to remove any existing extension: az extension | Microsoft Docs
4. Download and Install extension from Azure Extension for SAPaz solutions- Latest
    a. az extension add --source=./workloads-0.1.0-py3-none-any.whl
    b. 

5. Login to correct AZ account
    a. az login
    b. az account set --subscription "<ACCOUNT_SUBSCRIPTION_ID>"
    c. az account show -otable
        i. should show correct account
6. Perform SAP Virtual Instance operations through extension
    a. Can test through basic command “az workloads –help” or “az workloads sap-virtual-instance list”

b.



Known Issues

Feature	Commands	Details
SVI Start/Stop	az workloads sap-virtual-instance start az workloads sap-virtual-instance stop	Feature under development.

Notes while using extension

1. Use same location for Service location and Application Location.

Command list

CLI Command	Operation Swagger name	Comments
az workloads sap-availability-zone-detail	SAPAvailabilityZoneDetails	
az workloads sap-disk-configuration	SAPDiskConfigurations	
az workloads sap-sizing-recommendation	SAPSizingRecommendations	
az workloads sap-supported-sku	SAPSupportedSku	
VIS		
az workloads sap-virtual-instance list	ListByResourceGroup	
az workloads sap-virtual-instance list	ListBySubscription	
az workloads sap-virtual-instance show	Get	
az workloads sap-virtual-instance create	Create	
az workloads sap-virtual-instance update	Update	Replaces Tags, instead of adding them. This goes with CLI design and is correct way so that we can remove tags as well
az workloads sap-virtual-instance delete	Delete	
az workloads sap-virtual-instance start	Start	Do not use this, Feature in Development
az workloads sap-virtual-instance stop	Stop	Do not use this, Feature in Development
App Server Instance		
az workloads sap-application-server-instance list	List	
az workloads sap-application-server-instance show	Get	
az workloads sap-application-server-instance create	Create	payload Option missing. Body is readOnly, not allowed to be created separately, so this is valid
az workloads sap-application-server-instance update	Update	Replaces Tags, instead of adding them. This goes with CLI design and is correct way so that we can remove tags as well

az workloads sap-application-server-instance delete	Delete	
Central Server Instance		
az workloads sap-central-instance list	List	
az workloads sap-central-instance show	Get	
az workloads sap-central-instance create	Create	payload Option missing. Body is readOnly, not allowed to be created separately, so this is valid
az workloads sap-central-instance update	Update	Replaces Tags, instead of adding them. This goes with CLI design and is correct way so that we can remove tags as well
az workloads sap-central-instance delete	Delete	
Database Instance		
az workloads sap-database-instance list	List	
az workloads sap-database-instance show	Get	
az workloads sap-database-instance create	Create	payload Option missing. Body is readOnly, not allowed to be created separately, so this is valid
az workloads sap-database-instance update	Update	Replaces Tags, instead of adding them. This goes with CLI design and is correct way so that we can remove tags as well
az workloads sap-database-instance delete	Delete	

Sample commands

The following section will show you sample commands and their results. You can use these and customise the input values to your need.

Group: az workloads

Command az workloads sap-availability-zone-detail

Example

az workloads sap-availability-zone-detail --app-location "eastus" --database-type "HANA" --sap-product "S4HANA" \
--location "centralus"

az workloads sap-availability-zone-detail --app-location "northeurope" --database-type "HANA" --sap-product "S4HANA" --location "northeurope"

```
PS D:\OneDrive - Microsoft\WaaS\Extension\14March\Testing> az workloads sap-availability-zone-detail --app-location "northeurope" --database-type "HANA" --sap-product "S4HANA" --location "centralus"
Command group 'workloads' is experimental and under development. Reference and support levels: https://aka.ms/CLI_refstatus
(NoRegisteredProviderFound) No registered resource provider found for location 'centralus' and API version '2021-12-01-preview' for type 'Locations/sapVirtualInstanceMetadata'. The supported api-versions are '2021-12-01-preview'. The supported locations are 'eastus2euap, eastus2, northeurope'.
PS D:\OneDrive - Microsoft\WaaS\Extension\14March\Testing> az workloads sap-availability-zone-detail --app-location "northeurope" --database-type "HANA" --sap-product "S4HANA" --location "northeurope"
Command group 'workloads' is experimental and under development. Reference and support levels: https://aka.ms/CLI_refstatus
{
  "availabilityZonePairs": [
    {
      "zoneA": 2,
      "zoneB": 3
    }
  ]
}
```

Command az workloads sap-disk-configuration

Example

az workloads sap-disk-configuration --app-location "northeurope" --database-type "HANA" --db-vm-sku "Standard_M32ts" --deployment-type "SingleServer" --environment "NonProd" --sap-product "S4HANA" --location "northeurope"

```
PS D:\OneDrive - Microsoft\WaaS\Extension\14March\Testing> az workloads sap-disk-configuration --app-location "northeurope" --database-type "HANA" --db-vm-sku "Standard_M32ts" --deployment-type "SingleServer" --environment "NonProd" --sap-product "S4HANA" --location "northeurope"
Command group 'workloads' is experimental and under development. Reference and support levels: https://aka.ms/CLI_refstatus
{
  "diskConfigurations": [
    {
      "diskCount": 4,
      "diskIopsReadWrite": 500,
      "diskMBpsReadWrite": 100,
      "diskSizeGb": 128,
      "diskStorageType": "Premium_LRS",
      "diskType": "P10",
      "volume": "hana/data"
    },
    {
      "diskCount": 3,
      "diskIopsReadWrite": 500,
      "diskMBpsReadWrite": 100,
      "diskSizeGb": 128,
      "diskStorageType": "Premium_LRS",
      "diskType": "P10",
      "volume": "hana/log"
    },
    {
      "diskCount": 1,
      "diskIopsReadWrite": 500,
      "diskMBpsReadWrite": 60,
      "diskSizeGb": 256,
      "diskStorageType": "StandardSSD_LRS",
      "diskType": "E15",
      "volume": "hana/shared"
    },
    {
      "diskCount": 1,
      "diskIopsReadWrite": 500,
      "diskMBpsReadWrite": 100,
      "diskSizeGb": 128,
      "diskStorageType": "Premium_LRS",
      "diskType": "P10",
      "volume": "usr/sap"
    },
    {
      "diskCount": 2,
      "diskIopsReadWrite": 500,
      "diskMBpsReadWrite": 60,
      "diskSizeGb": 256,
      "diskStorageType": "StandardSSD_LRS",
      "diskType": "E15",
      "volume": "backup"
    },
    {
      "diskCount": 1,
      "diskIopsReadWrite": 500,
      "diskMBpsReadWrite": 60,
      "diskSizeGb": 64,
      "diskStorageType": "StandardSSD_LRS",
      "diskType": "E6",
      "volume": "os"
    }
  ]
}
```

Command az workloads sap-sizing-recommendation

Example

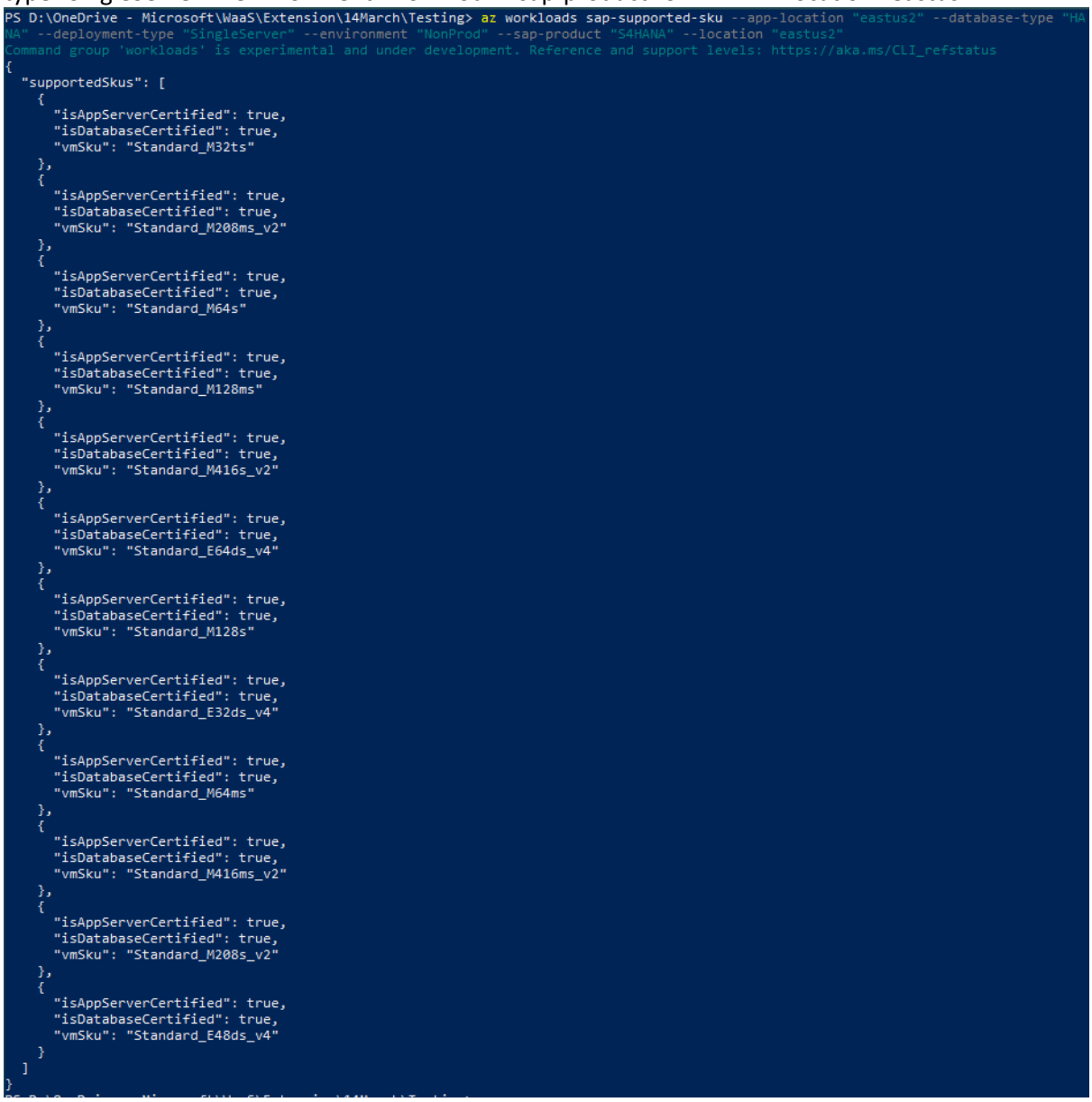
az workloads sap-sizing-recommendation --app-location "northeurope" --database-type "HANA" --db-memory 2000 --deployment-type "SingleServer" --environment "NonProd" --sap-product "S4HANA" --saps 60000 --location "northeurope"

```
PS D:\OneDrive - Microsoft\WaaS\Extension\14March\Testing> az workloads sap-sizing-recommendation --app-location "northeurope" --datab
ase-type "HANA" --db-memory 2000 --deployment-type "SingleServer" --environment "NonProd" --sap-product "S4HANA" --saps 60000 --locati
on "northeurope"
Command group 'workloads' is experimental and under development. Reference and support levels: https://aka.ms/CLI_refstatus
{
  "deploymentType": "SingleServer",
  "vmSku": "Standard_M128s"
}
```

Command az workloads sap-supported-sku

Example

az workloads sap-supported-sku --app-location "eastus2" --database-type "HANA" --deployment-type "SingleServer" --environment "NonProd" --sap-product "S4HANA" --location "eastus2"



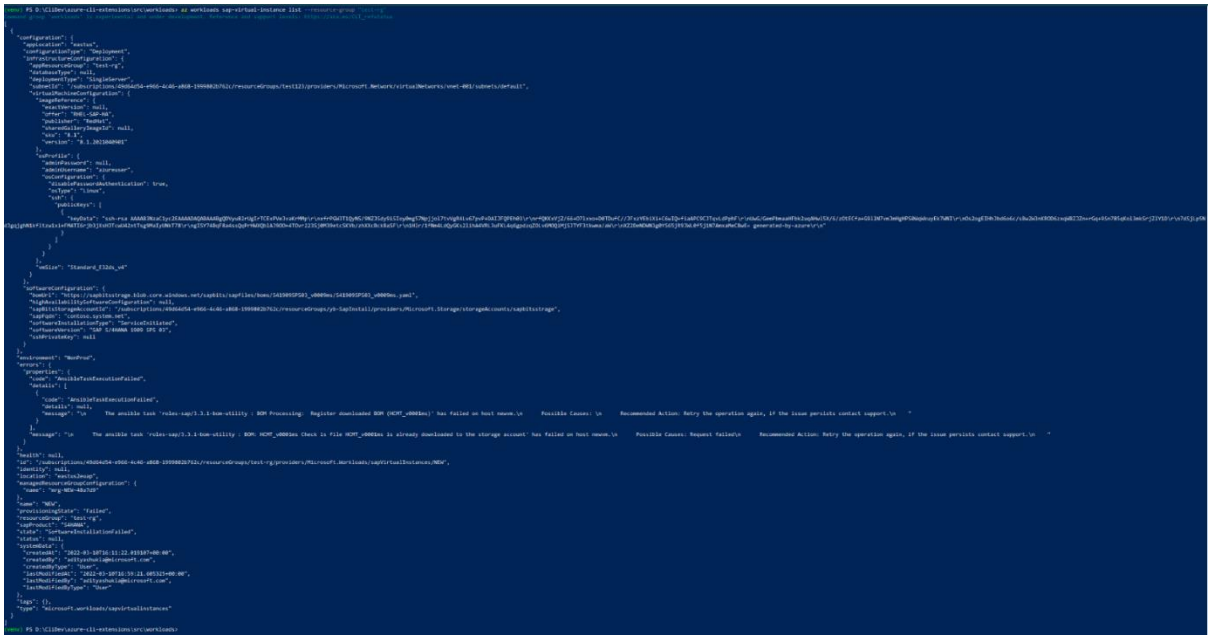
```
PS D:\OneDrive - Microsoft\WaaS\Extension\14March\Testing> az workloads sap-supported-sku --app-location "eastus2" --database-type "HA
NA" --deployment-type "SingleServer" --environment "NonProd" --sap-product "S4HANA" --location "eastus2"
Command group 'workloads' is experimental and under development. Reference and support levels: https://aka.ms/CLI_refstatus
{
  "supportedSkus": [
    {
      "isAppServerCertified": true,
      "isDatabaseCertified": true,
      "vmSku": "Standard_M32ts"
    },
    {
      "isAppServerCertified": true,
      "isDatabaseCertified": true,
      "vmSku": "Standard_M208ms_v2"
    },
    {
      "isAppServerCertified": true,
      "isDatabaseCertified": true,
      "vmSku": "Standard_M64s"
    },
    {
      "isAppServerCertified": true,
      "isDatabaseCertified": true,
      "vmSku": "Standard_M128ms"
    },
    {
      "isAppServerCertified": true,
      "isDatabaseCertified": true,
      "vmSku": "Standard_M416s_v2"
    },
    {
      "isAppServerCertified": true,
      "isDatabaseCertified": true,
      "vmSku": "Standard_E64ds_v4"
    },
    {
      "isAppServerCertified": true,
      "isDatabaseCertified": true,
      "vmSku": "Standard_M128s"
    },
    {
      "isAppServerCertified": true,
      "isDatabaseCertified": true,
      "vmSku": "Standard_E32ds_v4"
    },
    {
      "isAppServerCertified": true,
      "isDatabaseCertified": true,
      "vmSku": "Standard_M64ms"
    },
    {
      "isAppServerCertified": true,
      "isDatabaseCertified": true,
      "vmSku": "Standard_M416ms_v2"
    },
    {
      "isAppServerCertified": true,
      "isDatabaseCertified": true,
      "vmSku": "Standard_M208s_v2"
    },
    {
      "isAppServerCertified": true,
      "isDatabaseCertified": true,
      "vmSku": "Standard_E48ds_v4"
    }
  ]
}
```

Group: az workloads sap-virtual-instance

Command az workloads sap-virtual-instance list by RG

Example

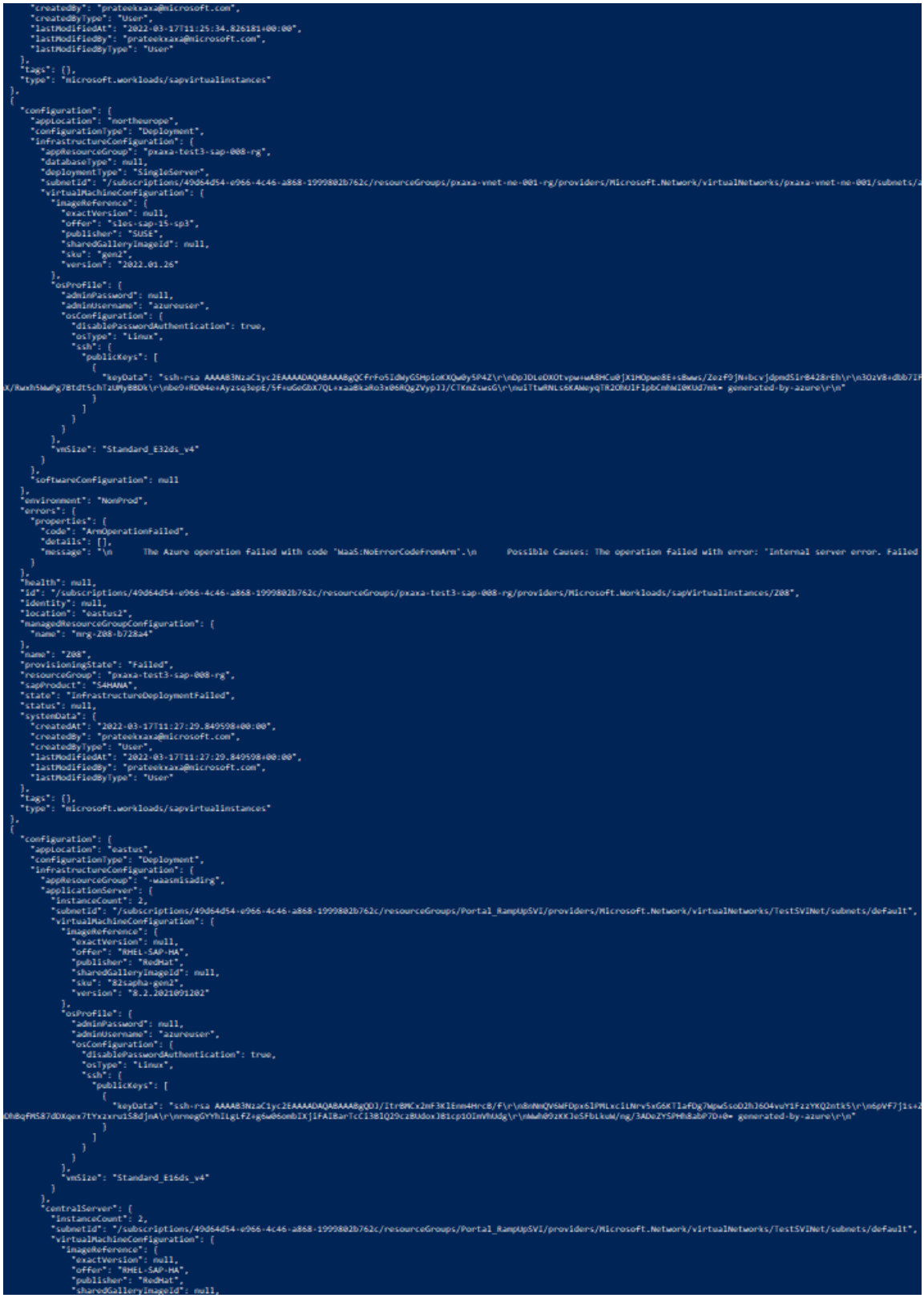
az workloads sap-virtual-instance list --resource-group "test-rg"



Command az workloads sap-virtual-instance list

Example

az workloads sap-virtual-instance list



Command az workloads sap-virtual-instance show

Example

az workloads sap-virtual-instance show --resource-group "test-rg" --name "NEW"

```
(venv) PS D:\CliDev\azure-cli-extensions\src\workloads> az workloads sap-virtual-instance show --resource-group "test-rg" --name "NEW"
Command group 'workloads' is experimental and under development. Reference and support levels: https://aka.ms/CLI_refstatus
{
  "configuration": {
    "appLocation": "eastus",
    "configurationType": "Deployment",
    "infrastructureConfiguration": {
      "appResourceGroup": "test-rg",
      "databaseType": null,
      "deploymentType": "SingleServer",
      "subnetId": "/subscriptions/49d64d54-e966-4c46-a868-1999802b762c/resourceGroups/test123/providers/Microsoft.Network/virtualNetworks/vnet-001/subnets/default",
      "virtualMachineConfiguration": {
        "imageReference": {
          "exactVersion": null,
          "offer": "RHEL-SAP-HA",
          "publisher": "RedHat",
          "sharedGalleryImageId": null,
          "sku": "8.1",
          "version": "8.1.2021040901"
        },
        "osProfile": {
          "adminPassword": null,
          "adminUsername": "azureuser",
          "osConfiguration": {
            "disablePasswordAuthentication": true,
            "osType": "Linux",
            "ssh": {
              "publicKeys": [
                {
                  "keyData": "ssh-rsa AAAAB3NzaC1yc2EAAAADAQABAAABgQDVyu82rUgIrTCExPVeJvaKrMMp\r\nxfrPGW3T1QyNS/9NZJSdy9iSIoy0mg57Npjjo17tvVgR4Lv67pvP+DAIJFQPEh03\r\
gqjghN1kfltzw1xi+FMATI6rjb3jXsHJTcwU42ntTsgSMaIyUNkT78\r\ngISY74BqF8a4ssQqPrHWXQblAJ9OO+4TOvr223Sj0M39etcSKVb/zhXXcBckBaSF\r\n1Hlr/1fNm4LdQyGKs2liHA4VRL3uFKL4q6gpdzq
                }
              ]
            }
          }
        },
        "vmSize": "Standard_E32ds_v4"
      }
    },
    "softwareConfiguration": {
      "bomUrl": "https://sapbitsstrage.blob.core.windows.net/sapbits/sapfiles/boms/S41909SPS03_v0009ms/S41909SPS03_v0009ms.yaml",
      "highAvailabilitySoftwareConfiguration": null,
      "sapBitsStorageAccountId": "/subscriptions/49d64d54-e966-4c46-a868-1999802b762c/resourceGroups/yb-SapInstall/providers/Microsoft.Storage/storageAccounts/sapbits
      "sapFqdn": "contoso.system.net",
      "softwareInstallationType": "ServiceInitiated",
      "softwareVersion": "SAP S/4HANA 1909 SPS 03",
      "sshPrivateKey": null
    }
  },
  "environment": "NonProd",
  "errors": {
    "properties": {
      "code": "AnsibleTaskExecutionFailed",
      "details": [
        {
          "code": "AnsibleTaskExecutionFailed",
          "details": null,
          "message": "\n      The ansible task 'roles-sap/3.3.1-bom-utility : BOM Processing:  Register downloaded BOM (HCMT_v0001ms)' has failed on host newvm.\n
        }
      ],
      "message": "\n      The ansible task 'roles-sap/3.3.1-bom-utility : BOM: HCMT_v0001ms Check is file HCMT_v0001ms is already downloaded to the storage account'
    }
  },
  "health": null,
  "id": "/subscriptions/49d64d54-e966-4c46-a868-1999802b762c/resourceGroups/test-rg/providers/Microsoft.Workloads/sapVirtualInstances/NEW",
  "identity": null,
  "location": "eastus2euap",
  "managedResourceGroupConfiguration": {
    "name": "mrg-NEW-48a7d9"
  },
  "name": "NEW",
  "provisioningState": "Failed",
  "resourceGroup": "test-rg",
  "sapProduct": "S4HANA",
  "state": "SoftwareInstallationFailed",
  "status": null,
  "systemData": {
    "createdAt": "2022-03-10T16:11:22.019107+00:00",
    "createdBy": "adityashukla@microsoft.com",
    "createdByType": "User",
    "lastModifiedAt": "2022-03-10T16:59:21.605325+00:00",
    "lastModifiedBy": "adityashukla@microsoft.com",
    "lastModifiedByType": "User"
  },
  "tags": {},
  "type": "microsoft.workloads/sapvirtualinstances"
}
```


Command az workloads sap-virtual-instance create

Example

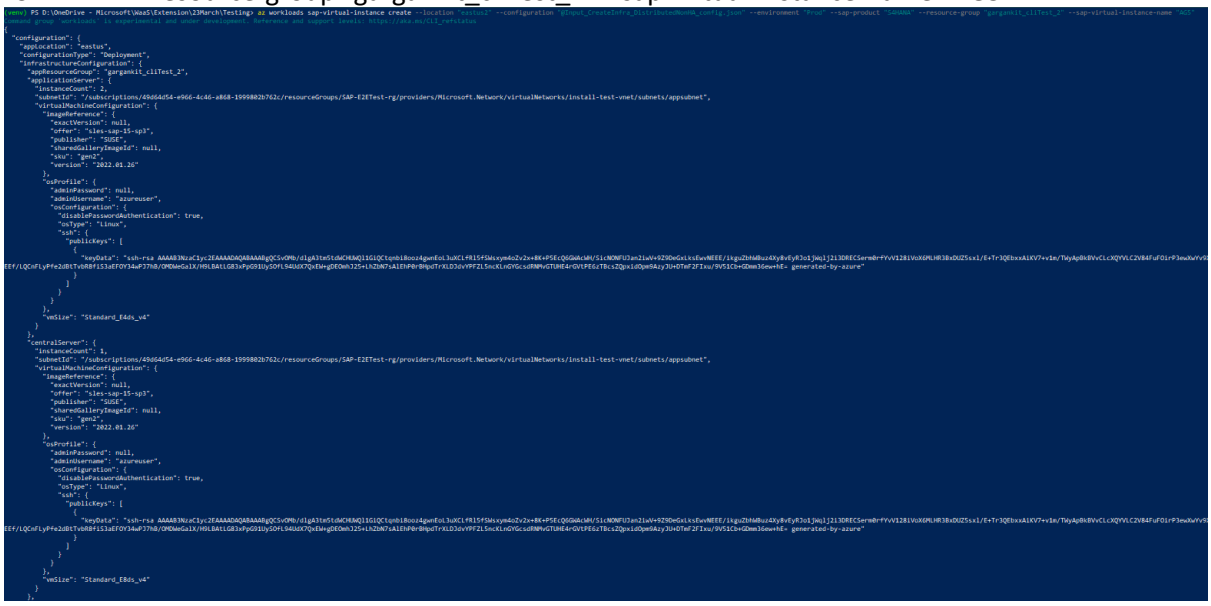
3 tier create infra

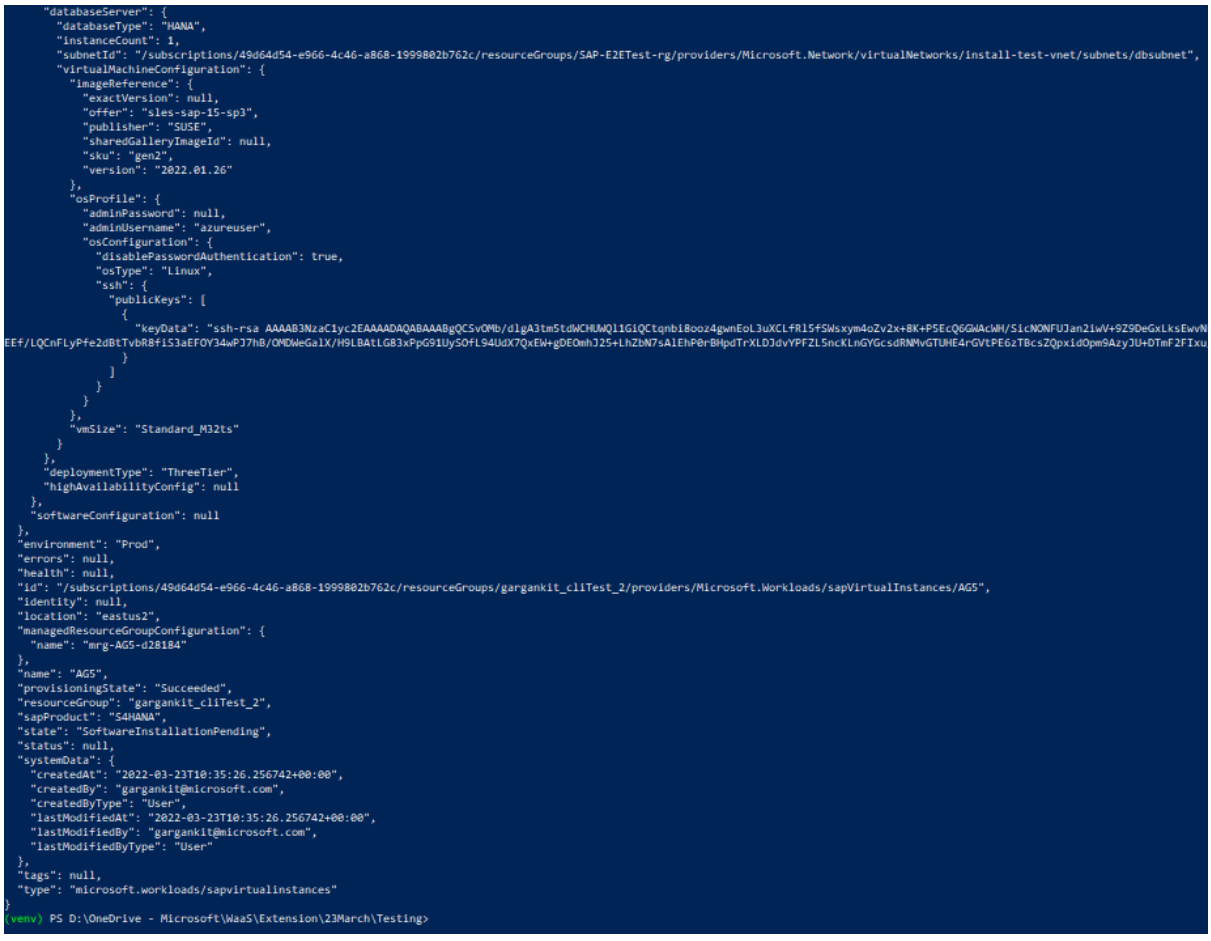
Payload

Input_Create Infra_Distributed NonHA_config.

Command

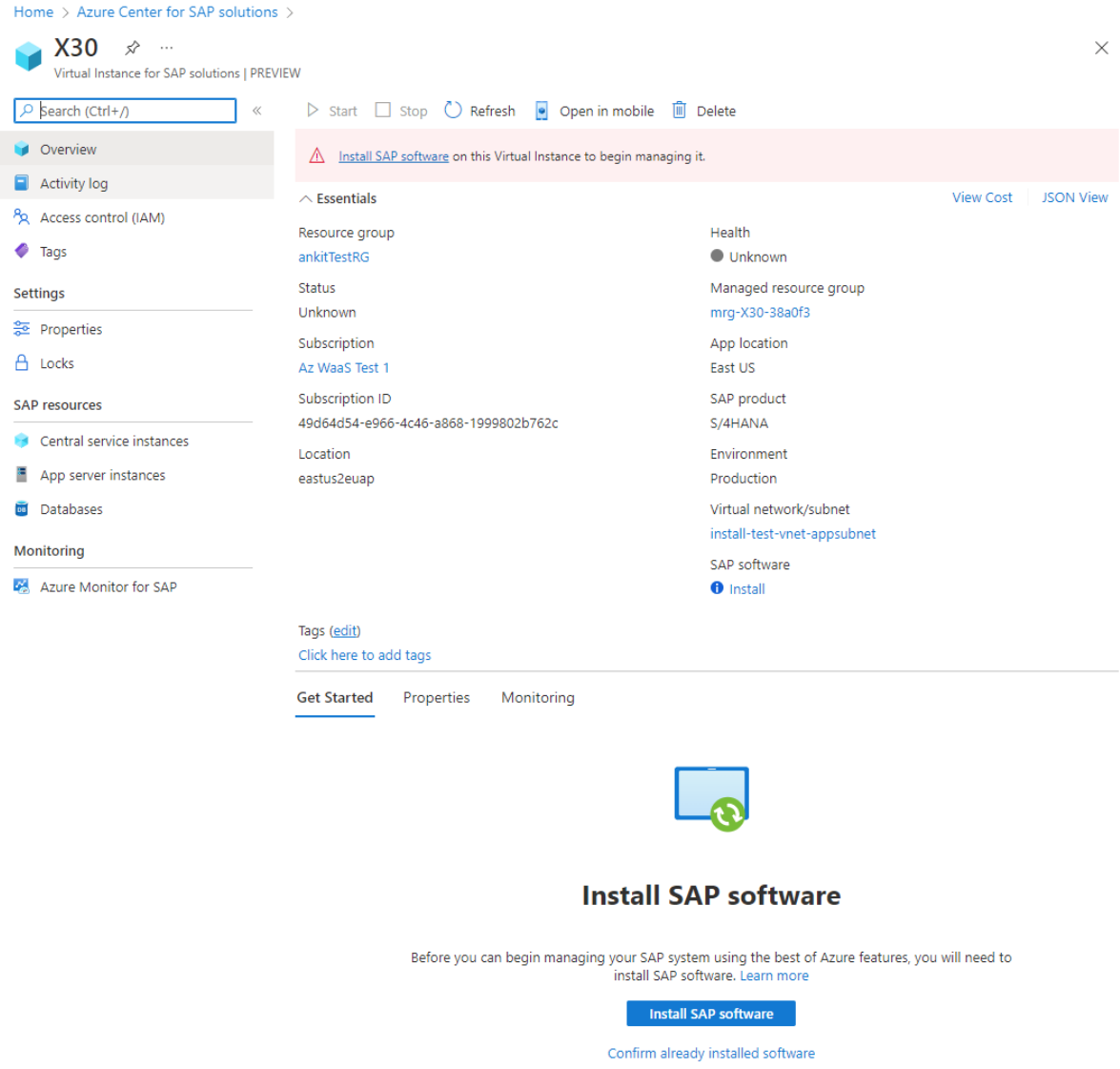
az workloads sap-virtual-instance create --location "eastus2" --configuration "@Input_CreateInfra_DistributedNonHA_config.json" --environment "Prod" --sap-product "S4HANA" --resource-group "gargankit_cliTest_2" --sap-virtual-instance-name "AG5"





Creation triggered

SVI visible on portal

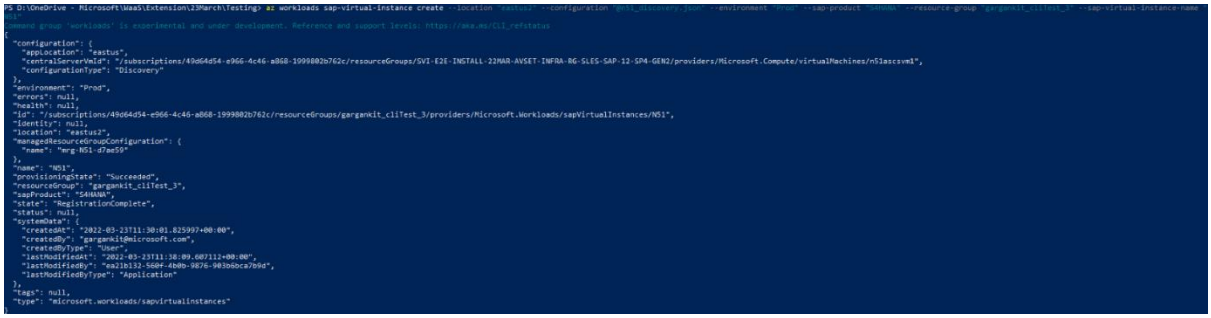


Discovery

Example

Command

az workloads sap-virtual-instance create --location "eastus2" --configuration "@n51_discovery.json" --environment "Prod" --sap-product "S4HANA" --resource-group "gargankit_cliTest_3" --sap-virtual-instance-name "N51"



Command az workloads sap-virtual-instance update

Example

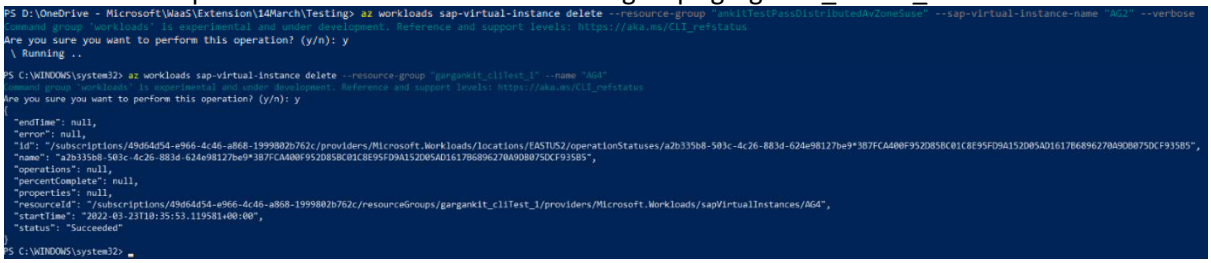
az workloads sap-virtual-instance update --resource-group "test-rg" --name "NEW" --tags Tag1='TagValue'

```
      "sapFqdn": "contoso.system.net",
      "softwareInstallationType": "ServiceInitiated",
      "softwareVersion": "SAP S/4HANA 1909 SPS 03",
      "sshPrivateKey": null
    }
  },
  "environment": "NonProd",
  "errors": {
    "properties": {
      "code": "AnsibleTaskExecutionFailed",
      "details": [
        {
          "code": "AnsibleTaskExecutionFailed",
          "details": null,
          "message": "\n      The ansible task 'roles-sap/3.3.1-bom-ut
n, if the issue persists contact support.\n    "
        }
      ],
      "message": "\n      The ansible task 'roles-sap/3.3.1-bom-utilit
Recommended Action: Retry the operation again, if the issue persists c
    }
  },
  "health": null,
  "id": "/subscriptions/49d64d54-e966-4c46-a868-1999802b762c/resourceG
  "identity": null,
  "location": "eastus2euap",
  "managedResourceGroupConfiguration": {
    "name": "mrg-NEW-48a7d9"
  },
  "name": "NEW",
  "provisioningState": "Failed",
  "resourceGroup": "test-rg",
  "sapProduct": "S4HANA",
  "state": "SoftwareInstallationFailed",
  "status": null,
  "systemData": {
    "createdAt": "2022-03-10T16:11:22.019107+00:00",
    "createdBy": "adityashukla@microsoft.com",
    "createdByType": "User",
    "lastModifiedAt": "2022-03-23T10:40:20.814106+00:00",
    "lastModifiedBy": "gargankit@microsoft.com",
    "lastModifiedByType": "User"
  },
  "tags": {
    "Tag1": "TagValue"
  },
  "type": "microsoft.workloads/sapvirtualinstances"
}
PS C:\WINDOWS\system32>
```


Command az workloads sap-virtual-instance delete

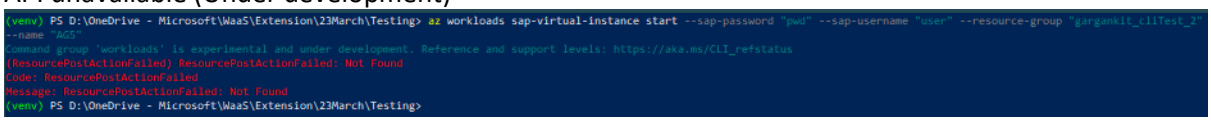
Example

az workloads sap-virtual-instance delete --resource-group "gargankit_cliTest_1" --name "AG4"



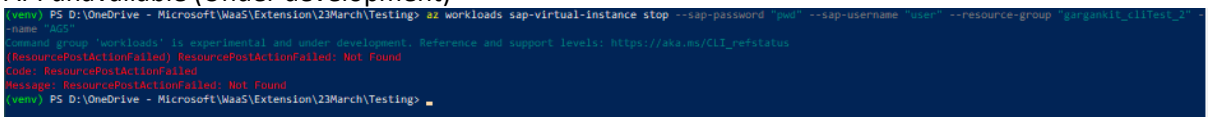
Command az workloads sap-virtual-instance start

Example
az workloads sap-virtual-instance start --sap-password "pwd" --sap-username "user" --resource-group "gargankit_cliTest_2" --name "AG5"
API unavailable (Under development)



Command az workloads sap-virtual-instance stop

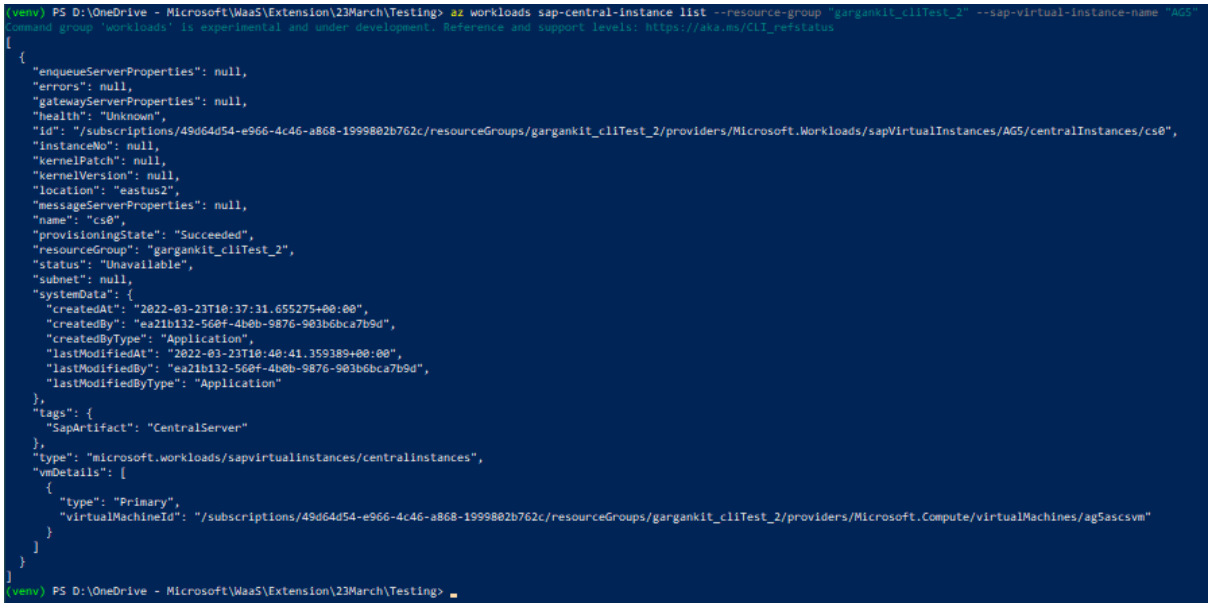
Example
az workloads sap-virtual-instance stop --sap-password "pwd" --sap-username "user" --resource-group "gargankit_cliTest_2" --name "AG5"
API unavailable (Under development)



Group: az workloads sap-central-instance

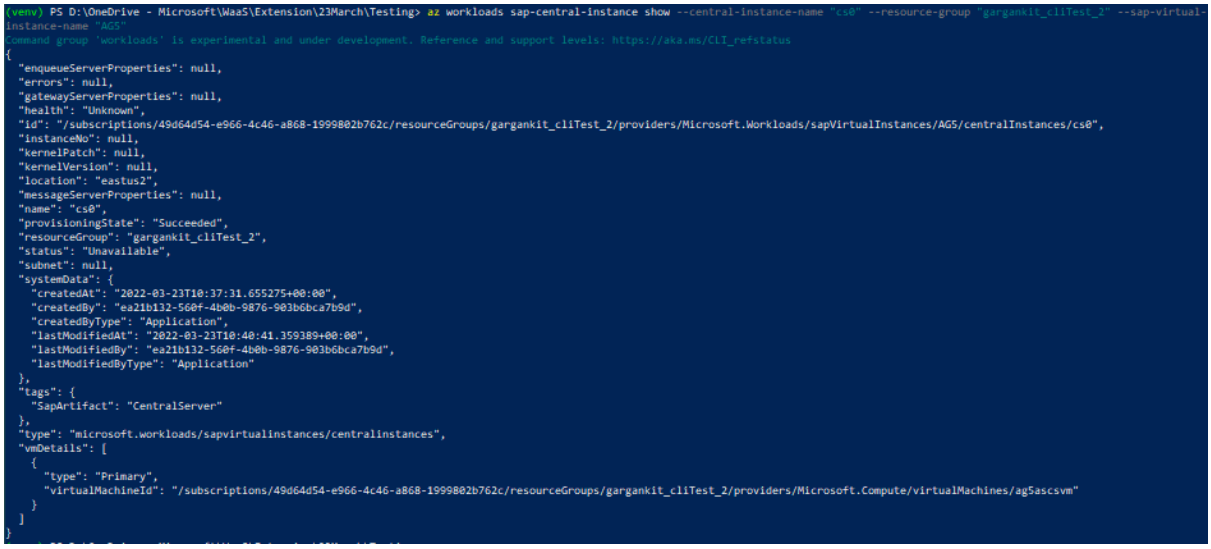
Command az workloads sap-central-instance list

Example
az workloads sap-central-instance list --resource-group "gargankit_cliTest_2" --sap-virtual-instance-name "AG5"



Command az workloads sap-central-instance show

Example
az workloads sap-central-instance show --central-instance-name "cs0" --resource-group "gargankit_cliTest_2" --sap-virtual-instance-name "AG5"

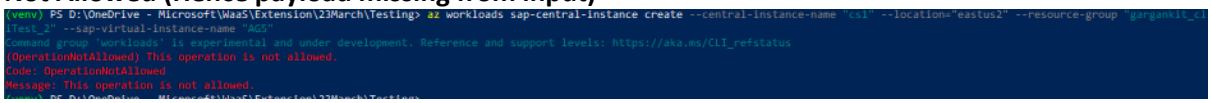


Command az workloads sap-central-instance create

Example

az workloads sap-central-instance create --location "westcentralus" --resource-group "test-rg" \
--sap-virtual-instance-name "X00"

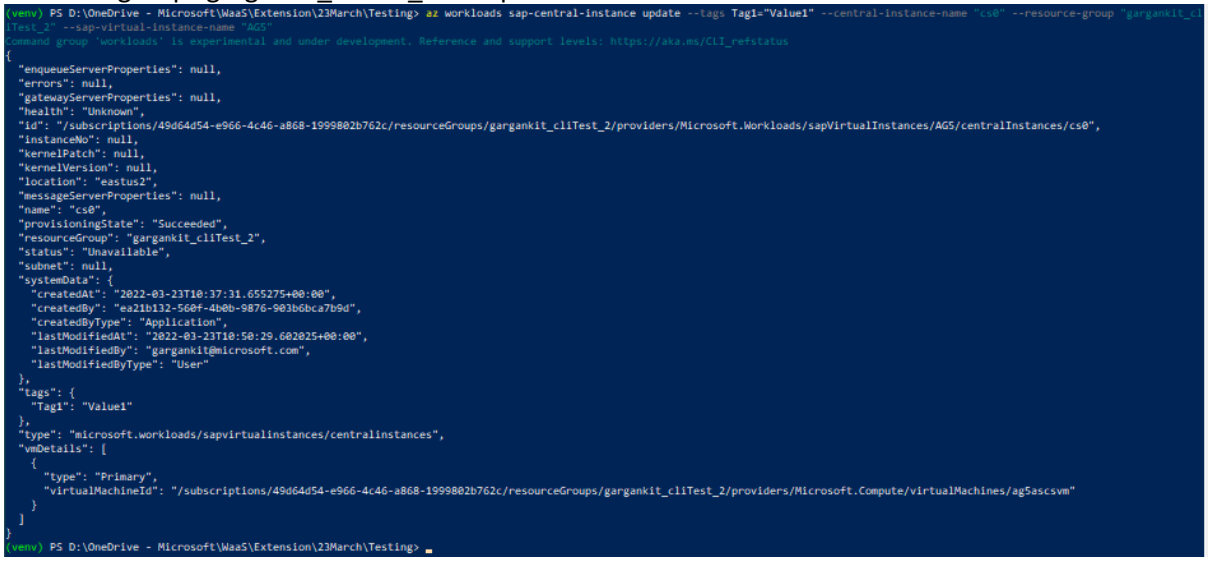
Not Allowed (Hence payload missing from input)



Command az workloads sap-central-instance update

Example

az workloads sap-central-instance update --tags Tag1="Value1" --central-instance-name "cs0" --resource-group "gargankit_cliTest_2" --sap-virtual-instance-name "AG5"



Command az workloads sap-central-instance delete

Example

az workloads sap-central-instance delete --central-instance-name "cs0" --resource-group "gargankit_cliTest_2" --sap-virtual-instance-name "AG5"

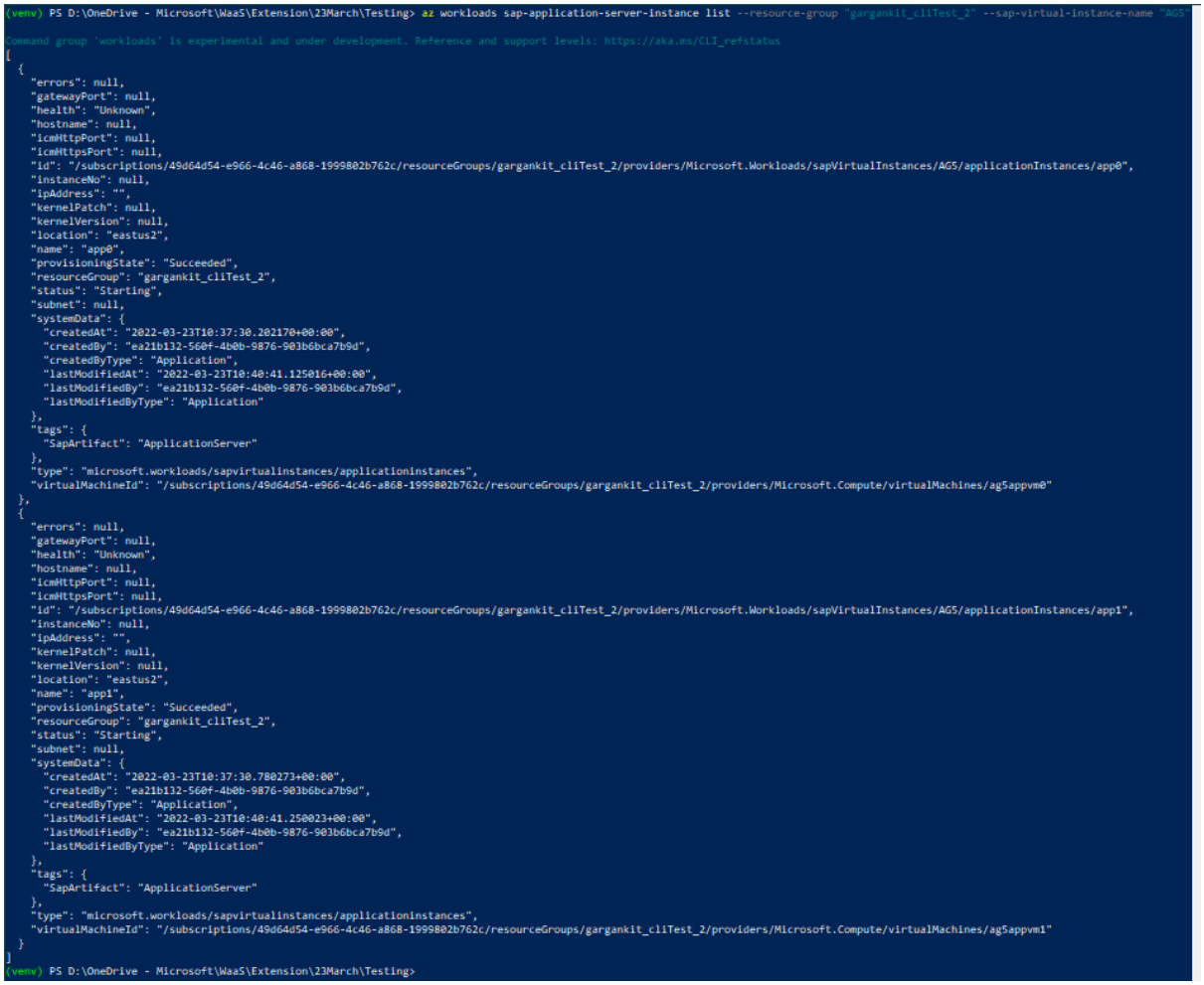
```
(venv) PS D:\OneDrive - Microsoft\WaaS\Extension\23March\Testing> az workloads sap-central-instance delete --central-instance-name "cs0" --resource-group "gargankit_cliTest_2" --sap-virtua
l-instance-name "AG5"
Command group 'workloads' is experimental and under development. Reference and support levels: https://aka.ms/CLI_refstatus
Are you sure you want to perform this operation? (y/n): y
(venv) PS D:\OneDrive - Microsoft\WaaS\Extension\23March\Testing>
(venv) PS D:\OneDrive - Microsoft\WaaS\Extension\23March\Testing> az workloads sap-central-instance list --resource-group "gargankit_cliTest_2" --sap-virtual-instance-name "AG5"
Command group 'workloads' is experimental and under development. Reference and support levels: https://aka.ms/CLI_refstatus
[]
(venv) PS D:\OneDrive - Microsoft\WaaS\Extension\23March\Testing>
```

Group: az workloads sap-application-server-instance

Command az workloads sap-application-server-instance list

Example

az workloads sap-application-server-instance list --resource-group "gargankit_cliTest_2" --sap-virtual-instance-name "AG5"



```
(venv) PS D:\OneDrive - Microsoft\WaaS\Extension\23March\Testing> az workloads sap-application-server-instance list --resource-group "gargankit_cliTest_2" --sap-virtual-instance-name "AG5"

Command group 'workloads' is experimental and under development. Reference and support levels: https://aka.ms/CLI_refstatus
[
  {
    "errors": null,
    "gatewayPort": null,
    "health": "Unknown",
    "hostname": null,
    "icmHttpPort": null,
    "icmHttpsPort": null,
    "id": "/subscriptions/49d64d54-e966-4c46-a868-1999802b762c/resourceGroups/gargankit_cliTest_2/providers/Microsoft.Workloads/sapVirtualInstances/AG5/applicationInstances/app0",
    "instanceNo": null,
    "ipAddress": "",
    "kernelPatch": null,
    "kernelVersion": null,
    "location": "eastus2",
    "name": "app0",
    "provisioningState": "Succeeded",
    "resourceGroup": "gargankit_cliTest_2",
    "status": "Starting",
    "subnet": null,
    "systemData": {
      "createdAt": "2022-03-23T10:37:30.202170+00:00",
      "createdBy": "ea21b132-560f-4b0b-9876-903b6bca7b9d",
      "createdByType": "Application",
      "lastModifiedAt": "2022-03-23T10:40:41.125016+00:00",
      "lastModifiedBy": "ea21b132-560f-4b0b-9876-903b6bca7b9d",
      "lastModifiedByType": "Application"
    },
    "tags": {
      "SapArtifact": "ApplicationServer"
    },
    "type": "microsoft.workloads/sapvirtualinstances/applicationinstances",
    "virtualMachineId": "/subscriptions/49d64d54-e966-4c46-a868-1999802b762c/resourceGroups/gargankit_cliTest_2/providers/Microsoft.Compute/virtualMachines/ag5appvm0"
  },
  {
    "errors": null,
    "gatewayPort": null,
    "health": "Unknown",
    "hostname": null,
    "icmHttpPort": null,
    "icmHttpsPort": null,
    "id": "/subscriptions/49d64d54-e966-4c46-a868-1999802b762c/resourceGroups/gargankit_cliTest_2/providers/Microsoft.Workloads/sapVirtualInstances/AG5/applicationInstances/app1",
    "instanceNo": null,
    "ipAddress": "",
    "kernelPatch": null,
    "kernelVersion": null,
    "location": "eastus2",
    "name": "app1",
    "provisioningState": "Succeeded",
    "resourceGroup": "gargankit_cliTest_2",
    "status": "Starting",
    "subnet": null,
    "systemData": {
      "createdAt": "2022-03-23T10:37:30.780273+00:00",
      "createdBy": "ea21b132-560f-4b0b-9876-903b6bca7b9d",
      "createdByType": "Application",
      "lastModifiedAt": "2022-03-23T10:40:41.250023+00:00",
      "lastModifiedBy": "ea21b132-560f-4b0b-9876-903b6bca7b9d",
      "lastModifiedByType": "Application"
    },
    "tags": {
      "SapArtifact": "ApplicationServer"
    },
    "type": "microsoft.workloads/sapvirtualinstances/applicationinstances",
    "virtualMachineId": "/subscriptions/49d64d54-e966-4c46-a868-1999802b762c/resourceGroups/gargankit_cliTest_2/providers/Microsoft.Compute/virtualMachines/ag5appvm1"
  }
]
(venv) PS D:\OneDrive - Microsoft\WaaS\Extension\23March\Testing>
```

Command az workloads sap-application-server-instance show

Example

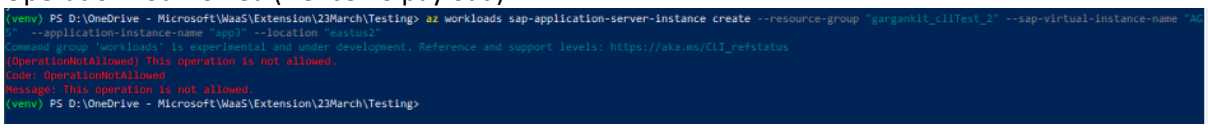
az workloads sap-application-server-instance show --resource-group "gargankit_cliTest_2" --sap-virtual-instance-name "AG5" --application-instance-name "app1"

Command az workloads sap-application-server-instance create

Example

az workloads sap-application-server-instance create --resource-group "gargankit_cliTest_2" --sap-virtual-instance-name "AG5" --application-instance-name "app3" --location "eastus2"

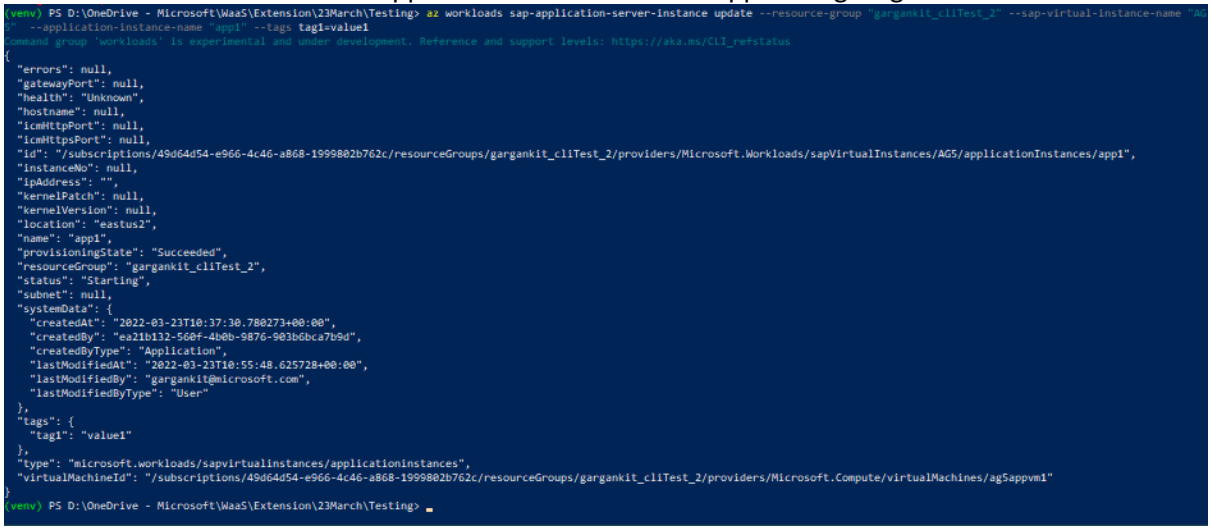
OperationNotAllowed (Hence no payload)



Command az workloads sap-application-server-instance update

Example

az workloads sap-application-server-instance update --resource-group "gargankit_cliTest_2" --sap-virtual-instance-name "AG5" --application-instance-name "app1" --tags tag1=value1



Command az workloads sap-application-server-instance delete

Example

az workloads sap-application-server-instance delete --resource-group "gargankit_cliTest_2" --sap-virtual-instance-name "AG5" --application-instance-name "app1"

```
(venv) PS D:\OneDrive - Microsoft\WaaS\Extension\23March\Testing> az workloads sap-application-server-instance delete --resource-group "gargankit_cliTest_2" --sap-virtual-instance-name "AG
5"  --application-instance-name "app1"
Command group 'workloads' is experimental and under development. Reference and support levels: https://aka.ms/CLI_refstatus
Are you sure you want to perform this operation? (y/n): y
(venv) PS D:\OneDrive - Microsoft\WaaS\Extension\23March\Testing> az workloads sap-application-server-instance list --resource-group "gargankit_cliTest_2" --sap-virtual-instance-name "AG5"

Command group 'workloads' is experimental and under development. Reference and support levels: https://aka.ms/CLI_refstatus
[
  {
    "errors": null,
    "gatewayPort": null,
    "health": "Unknown",
    "hostname": null,
    "icmHttpPort": null,
    "icmHttpsPort": null,
    "id": "/subscriptions/49d64d54-e966-4c46-a868-1999802b762c/resourceGroups/gargankit_cliTest_2/providers/Microsoft.Workloads/sapVirtualInstances/AG5/applicationInstances/app0",
    "instanceNo": null,
    "ipAddress": "",
    "kernelPatch": null,
    "kernelVersion": null,
    "location": "eastus2",
    "name": "app0",
    "provisioningState": "Succeeded",
    "resourceGroup": "gargankit_cliTest_2",
    "status": "Starting",
    "subnet": null,
    "systemData": {
      "createdAt": "2022-03-23T10:37:30.202170+00:00",
      "createdBy": "ea21b132-560f-4b0b-9876-903b6bca7b9d",
      "createdByType": "Application",
      "lastModifiedAt": "2022-03-23T10:40:41.125016+00:00",
      "lastModifiedBy": "ea21b132-560f-4b0b-9876-903b6bca7b9d",
      "lastModifiedByType": "Application"
    },
    "tags": {
      "SapArtifact": "ApplicationServer"
    },
    "type": "microsoft.workloads/sapvirtualinstances/applicationinstances",
    "virtualMachineId": "/subscriptions/49d64d54-e966-4c46-a868-1999802b762c/resourceGroups/gargankit_cliTest_2/providers/Microsoft.Compute/virtualMachines/ag5appvm0"
  }
]
(venv) PS D:\OneDrive - Microsoft\WaaS\Extension\23March\Testing>
```

Group: az workloads sap-database-instance

Command az workloads sap-database-instance list

Example

az workloads sap-database-instance list --resource-group "gargankit_cliTest_2" --sap-virtual-instance-name "AG5"

```
(venv) PS D:\OneDrive - Microsoft\WaaS\Extension\23March\Testing> az workloads sap-database-instance list --resource-group "gargankit_cliTest_2" --sap-virtual-instance-name "AG5"
Command group 'workloads' is experimental and under development. Reference and support levels: https://aka.ms/CLI_refstatus
[
  {
    "databaseSid": null,
    "databaseType": null,
    "errors": null,
    "id": "/subscriptions/49d64d54-e966-4c46-a868-1999802b762c/resourceGroups/gargankit_cliTest_2/providers/Microsoft.Workloads/sapVirtualInstances/AG5/databaseInstances/db0",
    "ipAddress": "",
    "location": "eastus2",
    "name": "db0",
    "provisioningState": "Succeeded",
    "resourceGroup": "gargankit_cliTest_2",
    "status": "Starting",
    "subnet": null,
    "systemData": {
      "createdAt": "2022-03-23T10:37:32.092786+00:00",
      "createdBy": "ea21b132-560f-4b0b-9876-903b6bca7b9d",
      "createdByType": "Application",
      "lastModifiedAt": "2022-03-23T10:40:41.453141+00:00",
      "lastModifiedBy": "ea21b132-560f-4b0b-9876-903b6bca7b9d",
      "lastModifiedByType": "Application"
    },
    "tags": {
      "SapArtifact": "DatabaseServer"
    },
    "type": "microsoft.workloads/sapvirtualinstances/databaseinstances",
    "vmDetails": [
      {
        "status": null,
        "virtualMachineId": "/subscriptions/49d64d54-e966-4c46-a868-1999802b762c/resourceGroups/gargankit_cliTest_2/providers/Microsoft.Compute/virtualMachines/ag5dbvm"
      }
    ]
  }
]
(venv) PS D:\OneDrive - Microsoft\WaaS\Extension\23March\Testing>
```

Command az workloads sap-database-instance show

Example

az workloads sap-database-instance show --resource-group "gargankit_cliTest_2" --sap-virtual-instance-name "AG5" --database-instance-name "db0"

```
(venv) PS D:\OneDrive - Microsoft\WaaS\Extension\23March\Testing> az workloads sap-database-instance show --resource-group "gargankit_cliTest_2" --sap-virtual-instance-name "AG5" --databas
e-instance-name "db0"
Command group 'workloads' is experimental and under development. Reference and support levels: https://aka.ms/CLI_refstatus
{
  "databaseSid": null,
  "databaseType": null,
  "errors": null,
  "id": "/subscriptions/49d64d54-e966-4c46-a868-1999802b762c/resourceGroups/gargankit_cliTest_2/providers/Microsoft.Workloads/sapVirtualInstances/AG5/databaseInstances/db0",
  "ipAddress": "",
  "location": "eastus2",
  "name": "db0",
  "provisioningState": "Succeeded",
  "resourceGroup": "gargankit_cliTest_2",
  "status": "Starting",
  "subnet": null,
  "systemData": {
    "createdAt": "2022-03-23T10:37:32.092786+00:00",
    "createdBy": "ea21b132-560f-4b0b-9876-903b6bca7b9d",
    "createdByType": "Application",
    "lastModifiedAt": "2022-03-23T10:40:41.453141+00:00",
    "lastModifiedBy": "ea21b132-560f-4b0b-9876-903b6bca7b9d",
    "lastModifiedByType": "Application"
  },
  "tags": {
    "SapArtifact": "DatabaseServer"
  },
  "type": "microsoft.workloads/sapvirtualinstances/databaseinstances",
  "vmDetails": [
    {
      "status": null,
      "virtualMachineId": "/subscriptions/49d64d54-e966-4c46-a868-1999802b762c/resourceGroups/gargankit_cliTest_2/providers/Microsoft.Compute/virtualMachines/ag5dbvm"
    }
  ]
}
(venv) PS D:\OneDrive - Microsoft\WaaS\Extension\23March\Testing>
```

Command az workloads sap-database-instance create

Example

az workloads sap-database-instance create --resource-group "gargankit_cliTest_2" --sap-virtual-instance-name "AG5" --database-instance-name "db0" --location "eastus2"

OperationNotAllowed (Hence no payload)

```
(venv) PS D:\OneDrive - Microsoft\WaaS\Extension\23March\Testing> az workloads sap-database-instance create --resource-group "gargankit_cliTest_2" --sap-virtual-instance-name "AG5" --datab
ase-instance-name "db1" --location "eastus2"
Command group 'workloads' is experimental and under development. Reference and support levels: https://aka.ms/CLI_refstatus
(OperationNotAllowed) This operation is not allowed.
Code: OperationNotAllowed
Message: This operation is not allowed.
(venv) PS D:\OneDrive - Microsoft\WaaS\Extension\23March\Testing>
```

Command az workloads sap-database-instance update

Example

az workloads sap-database-instance update --resource-group "gargankit_cliTest_2" --sap-virtual-instance-name "AG5" --database-instance-name "db0" --tags key1=value1

```
(venv) PS D:\OneDrive - Microsoft\WaaS\Extension\23March\Testing> az workloads sap-database-instance update --resource-group "gargankit_cliTest_2" --sap-virtual-instance-name "AG5" --datab
ase-instance-name "db0" --tags key1=value1
Command group 'workloads' is experimental and under development. Reference and support levels: https://aka.ms/CLI_refstatus
{
  "databaseSid": null,
  "databaseType": null,
  "errors": null,
  "id": "/subscriptions/49d64d54-e966-4c46-a868-1999802b762c/resourceGroups/gargankit_cliTest_2/providers/Microsoft.Workloads/sapVirtualInstances/AG5/databaseInstances/db0",
  "ipAddress": "",
  "location": "eastus2",
  "name": "db0",
  "provisioningState": "Succeeded",
  "resourceGroup": "gargankit_cliTest_2",
  "status": null,
  "subnet": null,
  "systemData": {
    "createdAt": "2022-03-23T10:37:32.092786+00:00",
    "createdBy": "ea21b132-560f-4b0b-9876-903b6bca7b9d",
    "createdByType": "Application",
    "lastModifiedAt": "2022-03-23T11:01:00.747310+00:00",
    "lastModifiedBy": "gargankit@microsoft.com",
    "lastModifiedByType": "User"
  },
  "tags": {
    "key1": "value1"
  },
  "type": "microsoft.workloads/sapvirtualinstances/databaseinstances",
  "vmDetails": [
    {
      "status": null,
      "virtualMachineId": "/subscriptions/49d64d54-e966-4c46-a868-1999802b762c/resourceGroups/gargankit_cliTest_2/providers/Microsoft.Compute/virtualMachines/ag5dbvm"
    }
  ]
}
(venv) PS D:\OneDrive - Microsoft\WaaS\Extension\23March\Testing>
```

Command az workloads sap-database-instance delete

Example

az workloads sap-database-instance delete --resource-group "gargankit_cliTest_2" --sap-virtual-instance-name "AG5" --database-instance-name "db0"

```
(venv) PS D:\OneDrive - Microsoft\WaaS\Extension\23March\Testing> az workloads sap-database-instance delete --resource-group "gargankit_cliTest_2" --sap-virtual-instance-name "AG5" --datab
ase-instance-name "db0"
Command group 'workloads' is experimental and under development. Reference and support levels: https://aka.ms/CLI_refstatus
Are you sure you want to perform this operation? (y/n): y
(venv) PS D:\OneDrive - Microsoft\WaaS\Extension\23March\Testing> az workloads sap-database-instance list --resource-group "gargankit_cliTest_2" --sap-virtual-instance-name "AG5"
Command group 'workloads' is experimental and under development. Reference and support levels: https://aka.ms/CLI_refstatus
[]
(venv) PS D:\OneDrive - Microsoft\WaaS\Extension\23March\Testing>
```