# Monitoring Extension Windows manual upgrade

Please follow these steps to manually upgrade the Windows Monitoring Extension on all VMs running the extension, in a particular subscription,

Pre-requisite: To be able to run the necessary commands, you will require **Contributor** access or higher on the subscription.

1. **Open Cloud shell**
   - Sign into the Azure Portal (https://portal.azure.com) using your Azure account credentials.
   - Once you are signed in, click on the Cloud Shell icon located in the top right corner of the Azure Portal, next to your username.
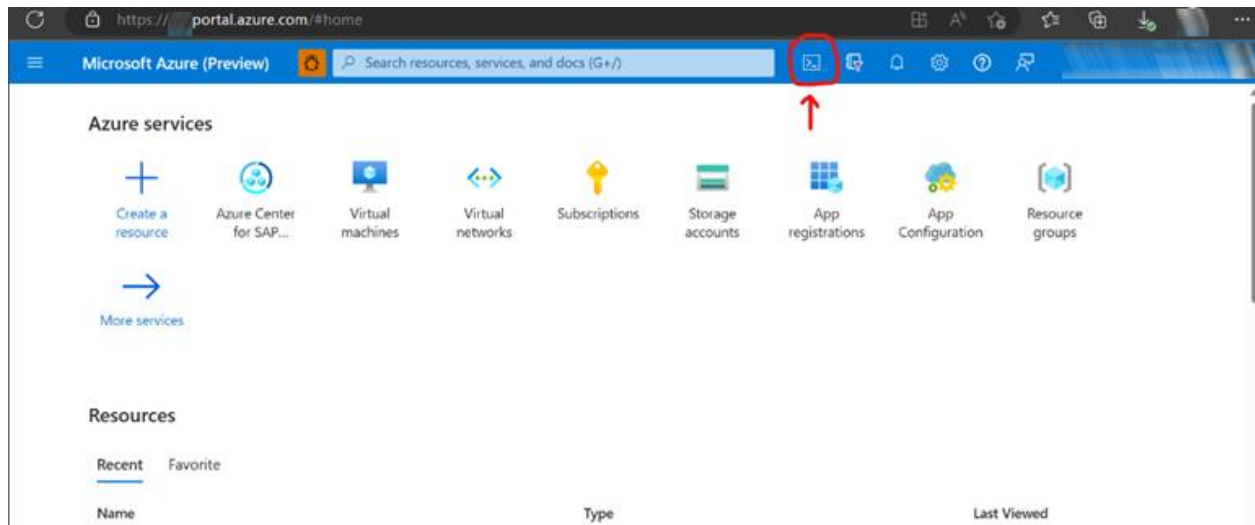
   - If you are using Cloud Shell for the first time, you will be prompted to choose a storage account for your Cloud Shell environment. Select "Create storage" to create a new storage account or select an existing one.
   - After you have selected a storage account, the Cloud Shell environment will start initializing. This may take a few seconds.

2. **Execute below steps in CloudShell,**
    a. **Replace** YOUR-SUBSCRIPTION-ID **with the actual subscriptionId**
    b. **Copy paste below content into CloudShell and hit Enter**

```
# Update below with correct subscription Id.
inputSubscriptionId="YOUR-SUBSCRIPTION-ID"
# Set the subscription of interest as active.
az account set --subscription $inputSubscriptionId
# Confirm that the subscription is set as active.
az account show --output table
# Upgrade all monitoring extensions.
az vm extension set -n MonitoringExtensionWindows --publisher
Microsoft.Azure.Workloads --version 1.0.21.0 --ids $(az resource list --query
"[?(contains(type, 'Microsoft.Compute/virtualMachines/extensions') &&
contains(name, 'MonitoringExtensionWindows')) ].id" -o tsv) --force-update
# End of script.
```

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FAQ:

1. **Sample Input and sample output**

Input:

```
inputSubscriptionId="12345678-90ab-cde1-2345-6789abcde123"
az account set --subscription $inputSubscriptionId
az account show --output table
az vm extension set -n MonitoringExtensionWindows --publisher
Microsoft.Azure.Workloads --version 1.0.21.0 --ids $(az resource list
--query "[?(contains(type,
'Microsoft.Compute/virtualMachines/extensions') && contains(name,
'MonitoringExtensionWindows')) ].id" -o tsv) --force-update
```

Output:
Will get a "running" prompt when the install is in progress.

EnvironmentName	HomeTenantId	IsDefault	Name	State	TenantId
AzureCloud		True	Az WaaS Test 1	Enabled	
/ Running ..					

[

{
  "autoUpgradeMinorVersion": true,
  "enableAutomaticUpgrade": true,
  "forceUpdateTag": "d3f2b931-92a6-4982-be0b-8d031e09372a",
  "id": "/subscriptions/xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxxxxxx/resourceGroups/opx-e2e-rg/providers/Microsoft.Compute/virtualMachines/opxascsvm1/extensions/MonitoringExtensionWindows,
  "instanceView": null,
  "location": "eastus",
  "name": "**MonitoringExtensionWindows**",
  "protectedSettings": null,
  "protectedSettingsFromKeyVault": null,
  "provisioningState": "**Succeeded**",
  "publisher": "**Microsoft.Azure.Workloads**",
  "resourceGroup": "opx-e2e-rg",
  "settings": {
   "commandToExecute": "Enable",
   "module": "powershell",
   "taskId": "a7c2ef3a-1f06-4221-96d4-d580855a5f58",
   "timeStamp": "0001-01-01T00:00:00Z"
  },
  "suppressFailures": null,
  "tags": null,
  "type": "Microsoft.Compute/virtualMachines/extensions",
  "typeHandlerVersion": "1.0",
  "typePropertiesType": "MonitoringExtensionWindows"
 }
]

2. **Error: "argument --ids: expected at least one argument"**
   When script execution fails with above error, then the input subscription does not have any impacted resources that need this mitigation. Please ignore.

3. **Is there an alternative to using Azure Cloud Shell for running the commands?**
Yes. The script can be run on any machine with Azure CLI installed. Please follow the steps below,

   - Ensure Azure CLI is installed. If not, follow the documentation to install Azure CLI: [How to install the Azure CLI | Microsoft Docs](#)
   - Run "az login" command
   - Execute the steps mentioned in Step2, replacing 'YOUR-SUBSCRIPTION-ID' with the actual subscriptionId.

4. **Commands ran successfully but the VIS is showing 'FailedToInstallMonitoringExtension' error.**

The above error can be seen if the Monitoring extension was in a failed provisioning state before the upgrade. To fix this, you can delete and register the VIS again.