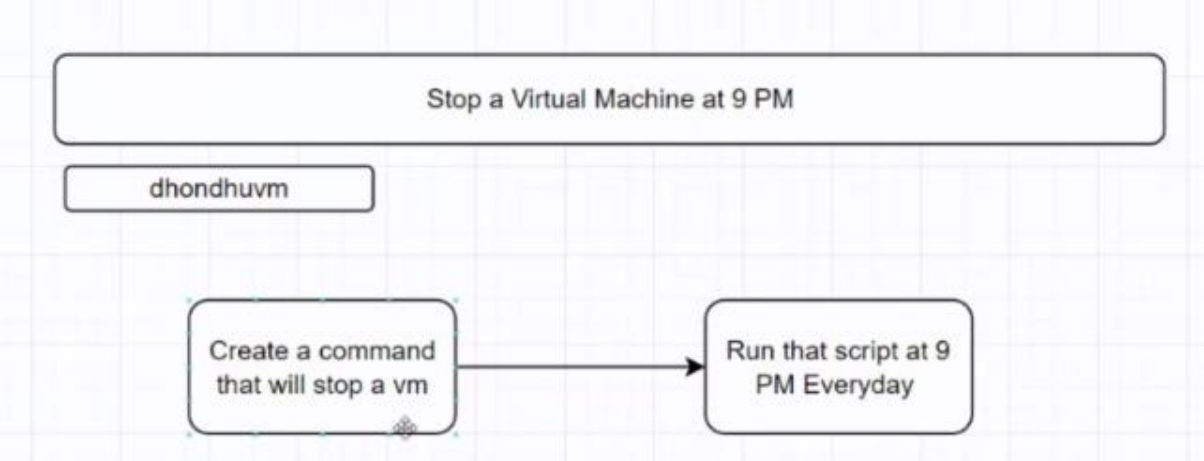
28 July 2024



1) SEARCH – stop an azure vm using a command

https://learn.microsoft.com/en-us/powershell/module/az.compute/stop-azvm?view=azps-12.3.0

Example 1: Stop a virtual machine

PowerShell Copy Open Cloud Shell

```
Stop-AzVM -ResourceGroupName "ResourceGroup11" -Name "VirtualMachine07"
```

Stop-AzVM -ResourceGroupName "ResourceGroup11" -Name "VirtualMachine07"

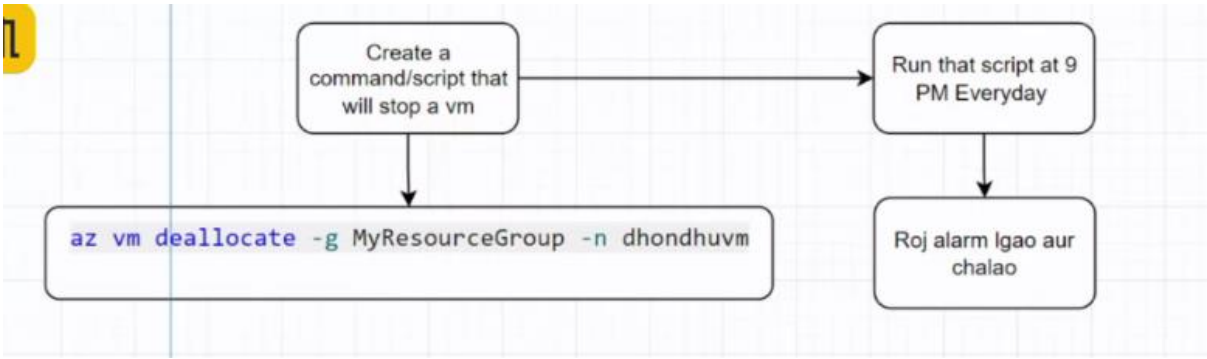
stop azure vm using az cli

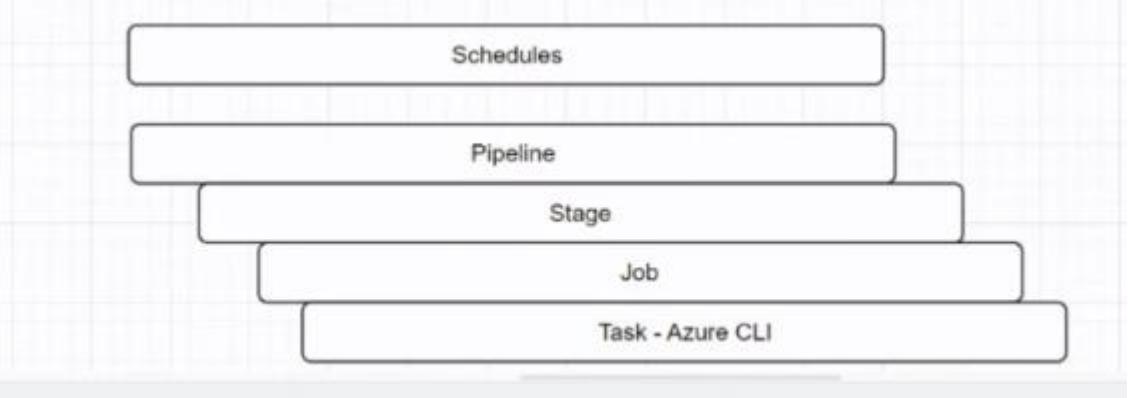
https://learn.microsoft.com/en-us/cli/azure/vm?view=azure-cli-latest

Azure CLI Copy Open Cloud Shell

```
az vm deallocate -g MyResourceGroup -n MyVm
```

az vm deallocate -g MyResourceGroup -n MyVm





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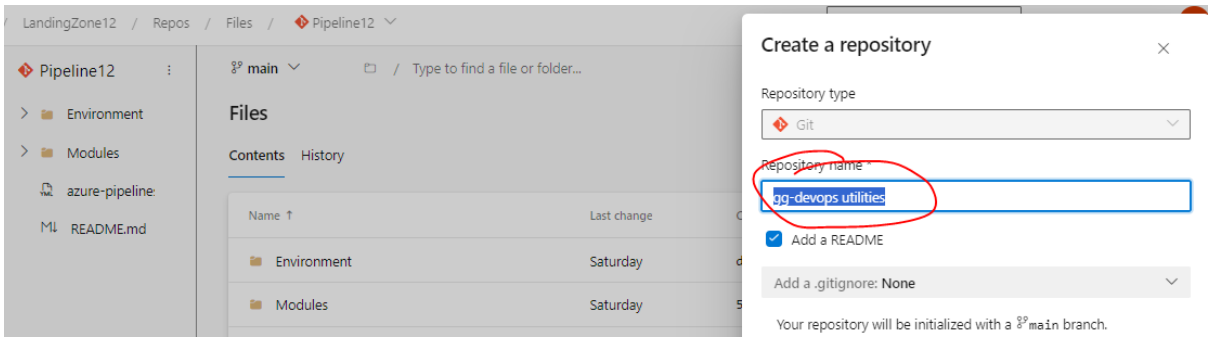
AGENDA – Custom pipeline in Azure which has only command but no code is there

1) We will select new pipeline and select new repo where yaml file of custom pipeline will be stored.

2) In company we will make new custom repo

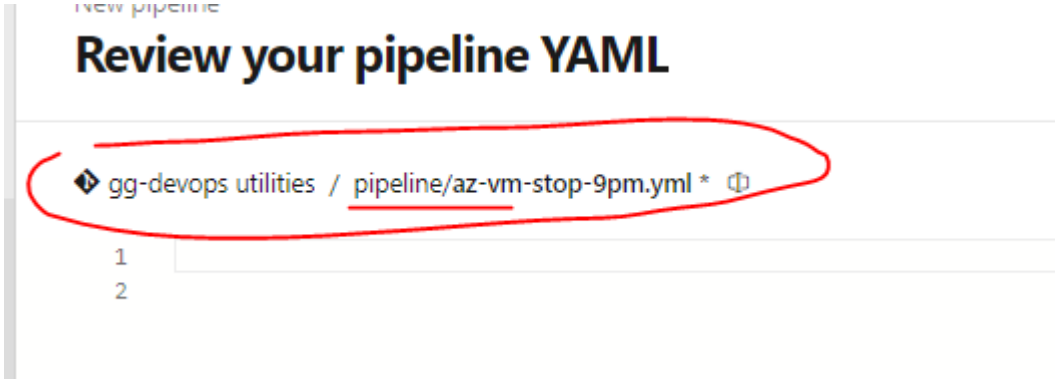


3)

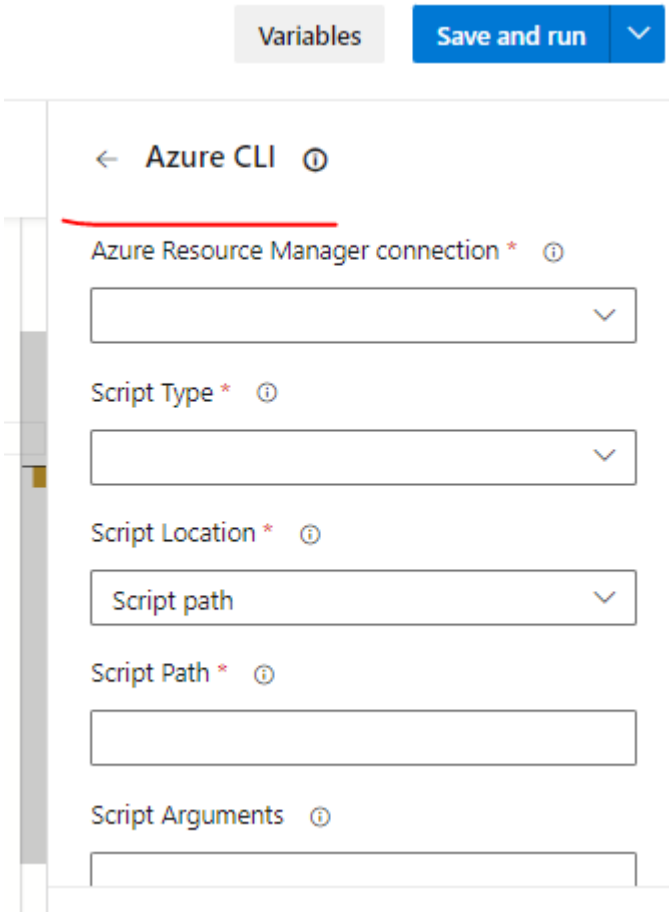
4) search – mono repo

https://monorepo.tools/

5) Now creating pipeline folder in our repo



6)



7) **az vm deallocate -g rgtom -n vmtom**

```yaml
- stage: StopVm
  displayName: StopVM
  jobs:
  - job: StopVM
    displayName: StopVm
    steps:
    Settings
    - task: AzureCLI@2
      inputs:
        azureSubscription: 'TestSC12'
        scriptType: 'bash'
        scriptLocation: 'inlineScript'
        inlineScript: 'az vm deallocate -g rgtom -n vmtom'
```

AGENDA – SET SCHEDULES

Copy code

```
0 21 * * *
```

Here's a breakdown of this notation:

- `0` — The minute (0th minute, i.e., exactly on the hour)
- `21` — The hour in 24-hour format (21 corresponds to 9 PM)
- `*` — Any day of the month
- `*` — Any month
- `*` — Any day of the week

8) SEARCH – crontab.guru.com

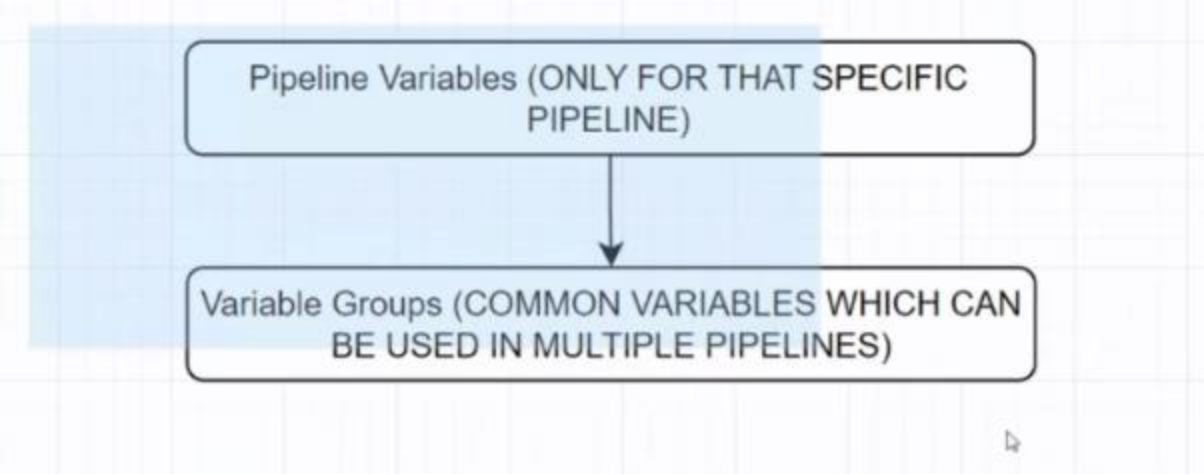
9)

```yaml
pool: Agentpool12

schedules:
- cron: '0 21 * * *'
  displayName: run pipline at 9pm
  always: true

stages:
```

10) Setting variables for rg and vm

```
3   pool: Agentpool12
4
5   variables:
6     RG_NAME: rgtom
7     VM_NAME: vmtom
8
9   schedules:
10  - cron: '0 21 * * *'
      scriptType: bash
      scriptLocation: 'inlineScript'
      inlineScript: 'az vm deallocate -g $(RG_NAME) -n $(VM_NAME)'
```

AGENDA – VARIABLE GROUPS



In a CI/CD pipeline, variables.group defines a collection of related variables that can be reused across multiple pipelines or stages. This approach promotes better organization, reduces duplication, and simplifies maintenance by allowing you to update variables in one central location. It can also enhance security by managing sensitive information effectively

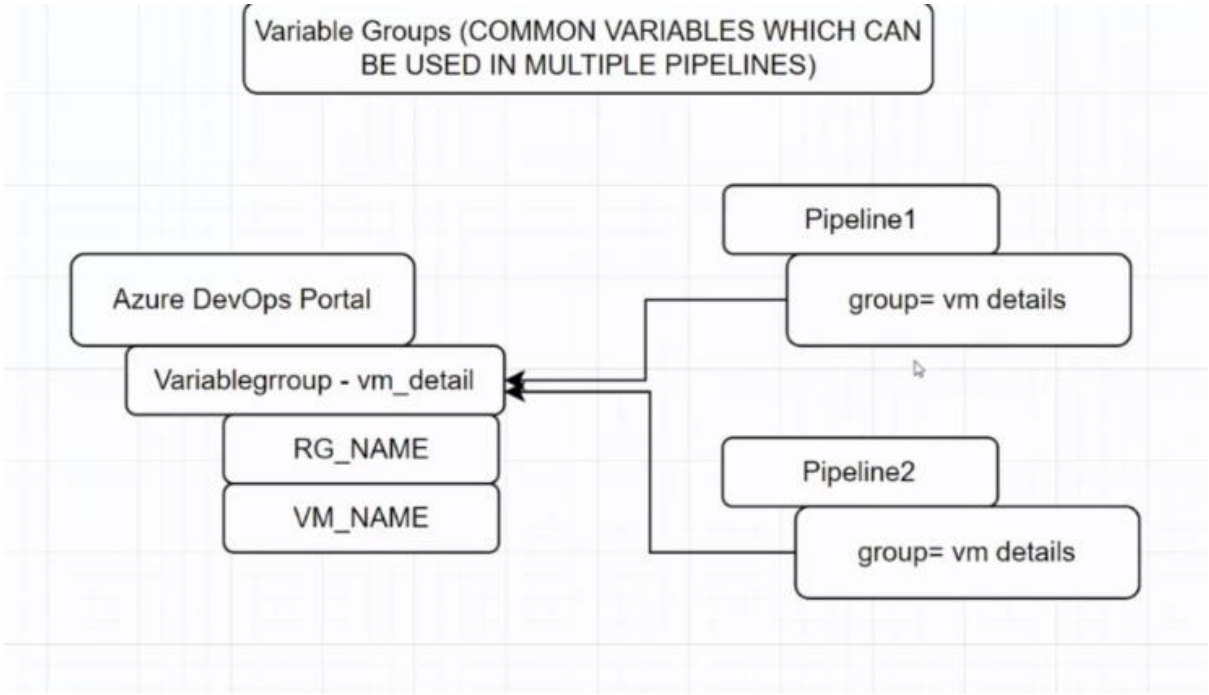
AGENDA – CREATING ANOTHER PIPELINE TO START THE VM

1) So, make new pipeline using same repo “gg waali ”

2) Copy the same code and instead of deallocate we will put start in code

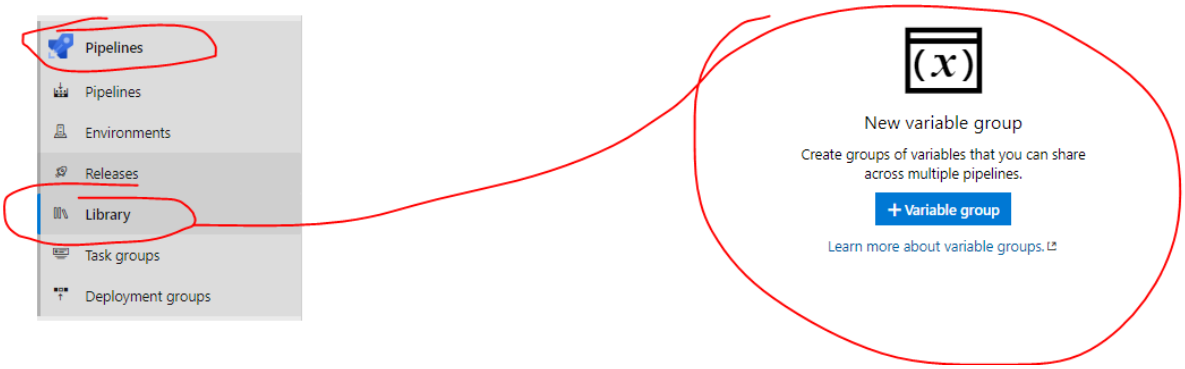
```
scriptLocation: inlineScript
inlineScript: 'az vm start -g $(RG_NAME) -n $(VM_NAME)'
```

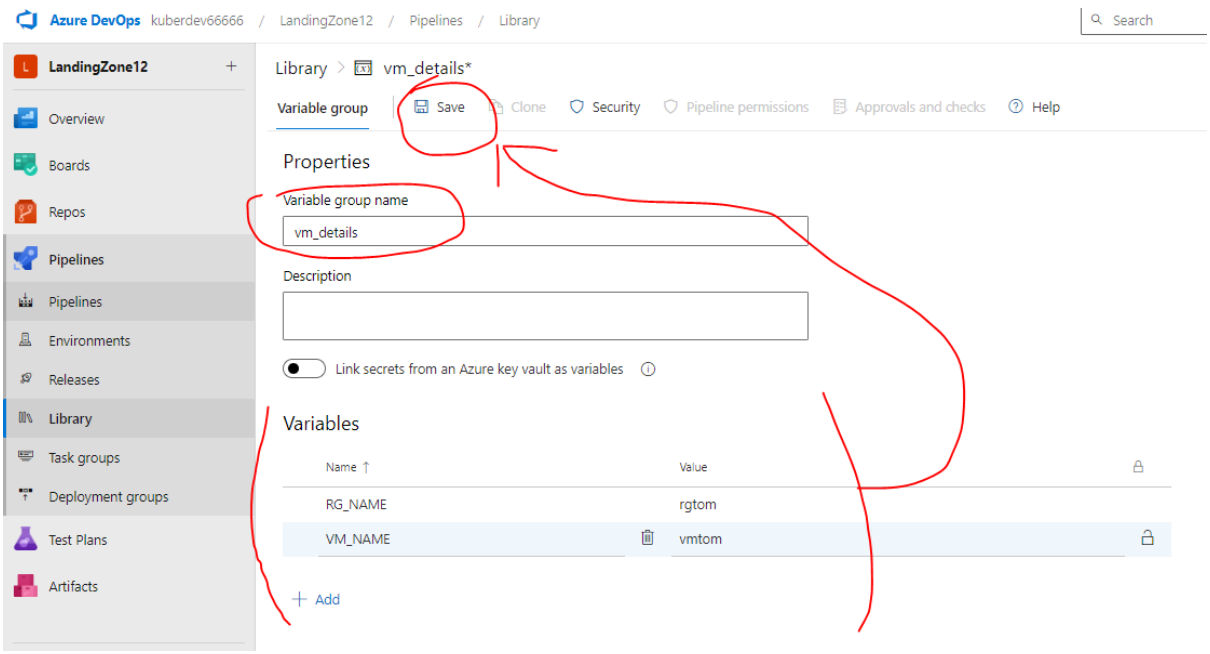
3)



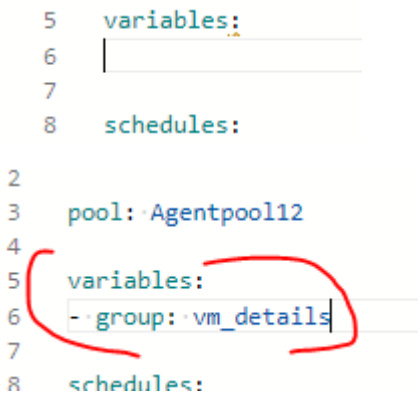
4) SEARCH - https://learn.microsoft.com/en-us/azure/devops/pipelines/library/variable-groups?view=azure-devops&tabs=azure-pipelines-ui%2Cyaml

5) Creating variable group

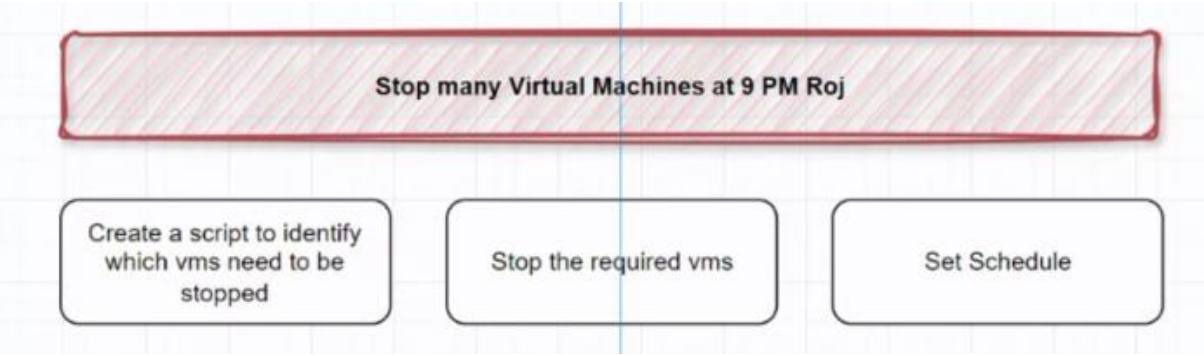




6) Now open stop and start pipelines in 2 tabs and remove set variables from both pipelines and use variable groups

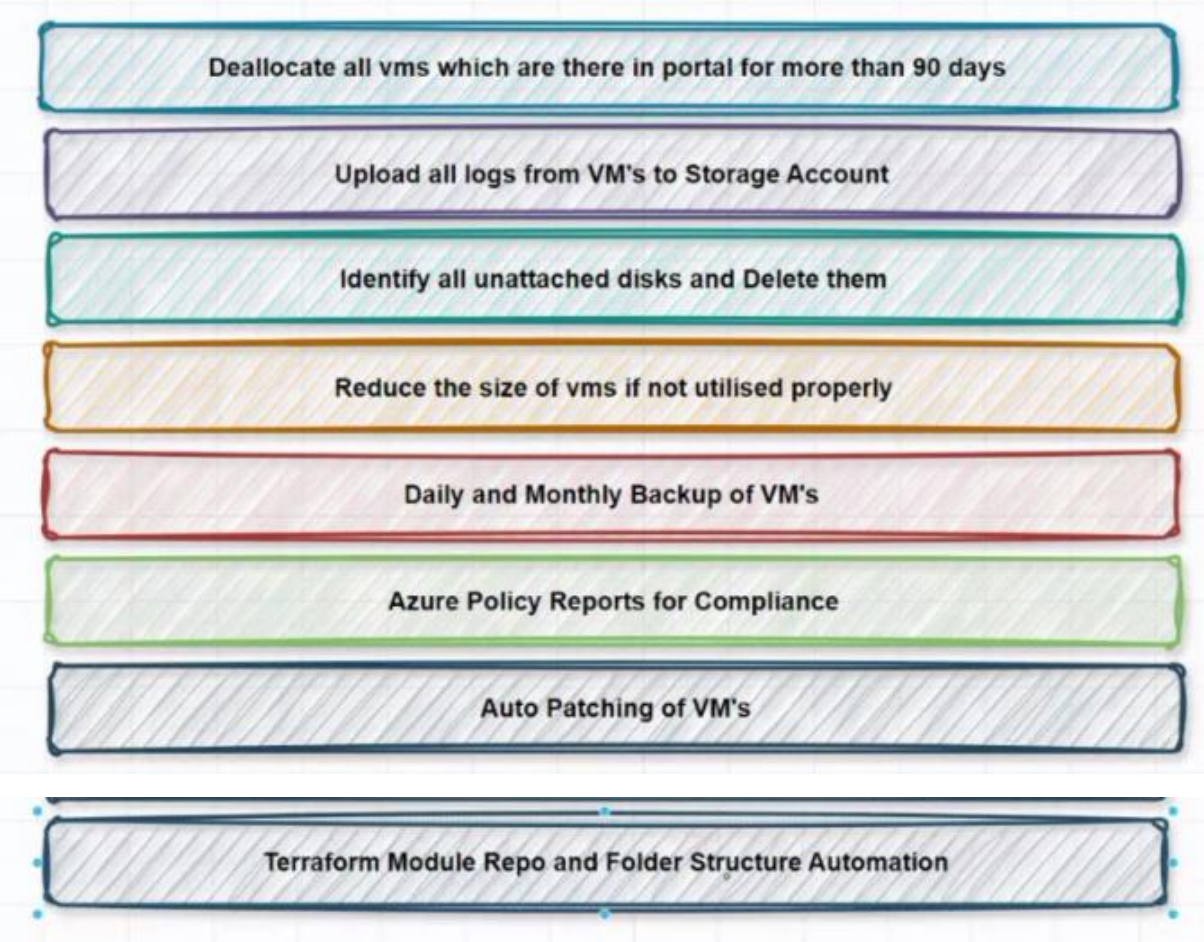


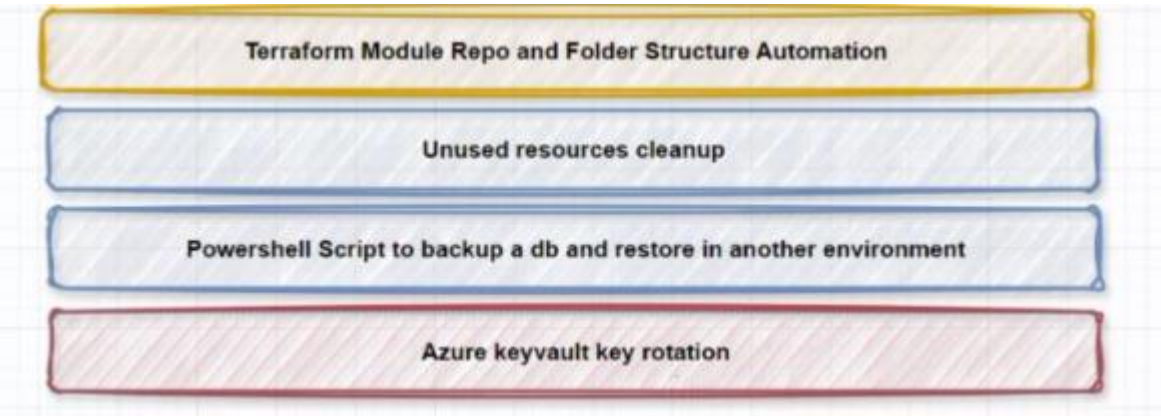
***) Suppose if we have to stop many Vms**



1) We can use tags also that has user keyword

2) Different scenarios for automating using power shell scripts





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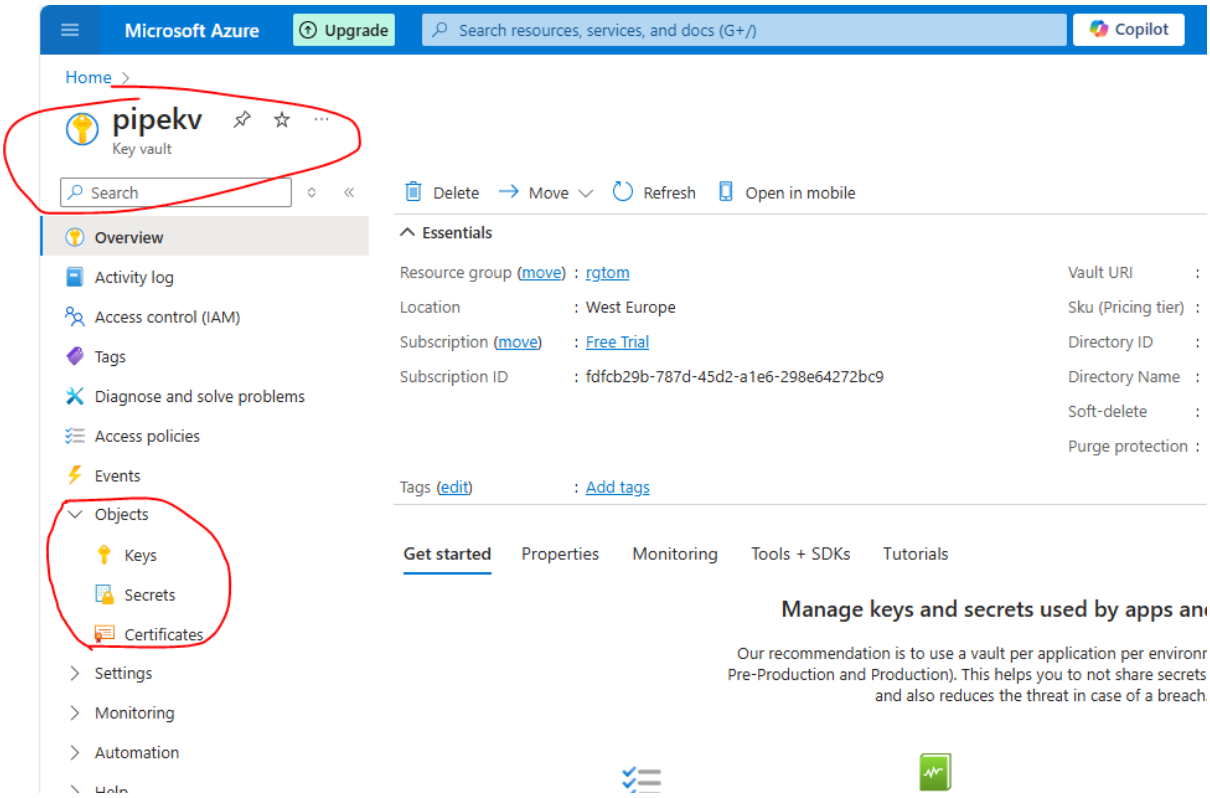
7) Creating key vault – leave this one we will apply later.



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AGENDA – PIPELINE MONITORING

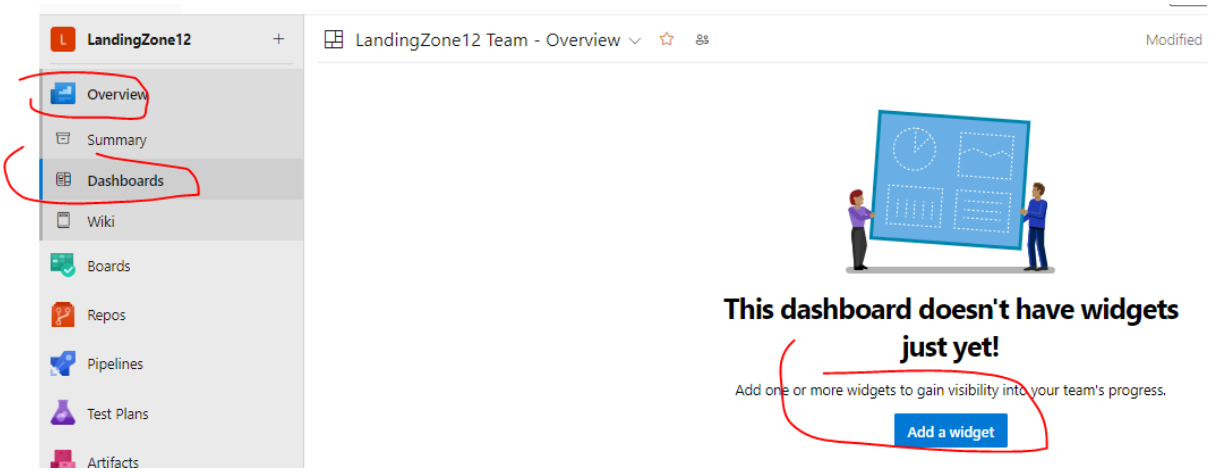
1) Monitoring methods are

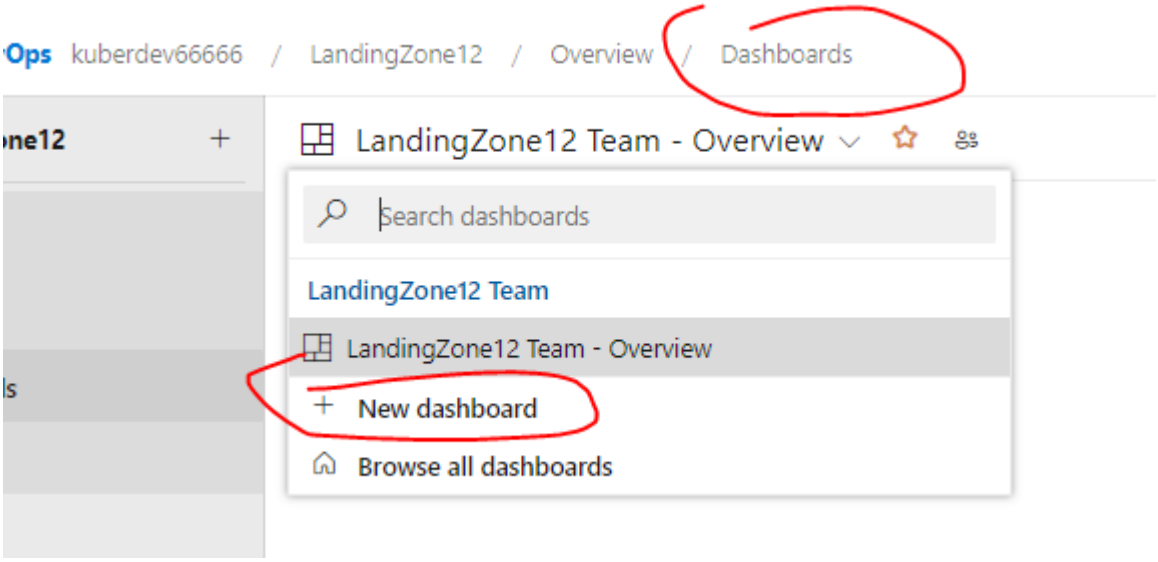
i) Built in monitoring features

ii) Dashboards

2) Go to overview -> Dashboards

3) Set script for pipeline alert mail goes on DL, on failing, using SMPT





Rename it then – add widgets -> Build history -> add -> configure settings button -> Select pipeline -> save