AMLSLearn1

October 24, 2019

1 PythonAzure(workspace)

```python
[1]: import azureml.core
     print(azureml.core.VERSION)
```

```
1.0.57
```

```python
[6]: from azureml.core import Workspace

     ws = Workspace.create(name='AMLSLearnworkspace',
                           subscription_id='485f9fa6-0221-4dbf-8074-a202426a29bf',
                           resource_group='rgAMLSLearnworkspace',
                           create_resource_group=True,
                           location='East Asia'
                           )
     print('Workspace created')
```

```
UserWarning: The resource group doesn't exist or was not provided. AzureML SDK
is creating a resource group=rgAMLSLearnworkspace in location=eastasia using
subscription=485f9fa6-0221-4dbf-8074-a202426a29bf.

Deploying StorageAccount with name amlslearstoraged7a73c0b5.
Deploying AppInsights with name amlslearinsightseac5ae02.
Deployed AppInsights with name amlslearinsightseac5ae02. Took 10.23 seconds.
Deploying KeyVault with name amlslearkeyvault81ad34b7.
Deployed KeyVault with name amlslearkeyvault81ad34b7. Took 23.33 seconds.
Deployed StorageAccount with name amlslearstoraged7a73c0b5. Took 37.0 seconds.
Deploying Workspace with name AMLSLearnworkspace.
Deployed Workspace with name AMLSLearnworkspace. Took 156.83 seconds.
Workspace created
```

```python
[7]: #
     ws.get_details()
```

```
[7]: {'id': '/subscriptions/485f9fa6-0221-4dbf-8074-a202426a29bf/resourceGroups/rgAML
     SLearnworkspace/providers/Microsoft.MachineLearningServices/workspaces/AMLSLearn
```

```
workspace',
 'name': 'AMLSLearnworkspace',
 'location': 'eastasia',
 'type': 'Microsoft.MachineLearningServices/workspaces',
 'workspaceid': '820e7f6b-8069-4668-9237-d33166860b25',
 'description': '',
 'friendlyName': 'AMLSLearnworkspace',
 'creationTime': '2019-10-24T12:53:33.3323278+00:00',
 'keyVault': '/subscriptions/485f9fa6-0221-4dbf-8074-a202426a29bf/resourcegroups
/rgamlslearnworkspace/providers/microsoft.keyvault/vaults/amlslearkeyvault81ad34
b7',
 'applicationInsights': '/subscriptions/485f9fa6-0221-4dbf-8074-a202426a29bf/res
ourcegroups/rgamlslearnworkspace/providers/microsoft.insights/components/amlslea
rinsightseac5ae02',
 'identityPrincipalId': '15148eb1-966f-40e8-ac8b-8b9feec8c49a',
 'identityTenantId': '17c834f5-3b7b-449c-94fe-0b055a7801ec',
 'identityType': 'SystemAssigned',
 'storageAccount': '/subscriptions/485f9fa6-0221-4dbf-8074-a202426a29bf/resource
groups/rgamlslearnworkspace/providers/microsoft.storage/storageaccounts/amlslear
storaged7a73c0b5'}
```

[8]:
```python
#: JSON write_config() (API)
ws.write_config()
print('Configuration saved')
```

Configuration saved

[9]:
```python
#workspace

#AMLS Experiment  azureml.core Experiment
from azureml.core import Experiment

#Create an experiment
exp = Experiment(workspace=ws, name='trial_exp')

# 'exp' 'run = exp.start_logging()' run
run = exp.start_logging()

# 'run.log('trial', 30)' 'trial' 30
run.log('trial',30)

#'run.log_list' Python
run.log_list('my_list', [1, 1, 2, 3, 5, 8, 13, 21, 34, 55])

#
run.complete()

print('Finished logging')
```

Finished logging

```
[10]:  #
       print(run.get_portal_url()) # Azure
```

https://mlworkspace.azure.ai/portal/subscriptions/485f9fa6-0221-4dbf-8074-a20242
6a29bf/resourceGroups/rgAMLSLearnworkspace/providers/Microsoft.MachineLearningSe
rvices/workspaces/AMLSLearnworkspace/experiments/trial_exp/runs/f128fcda-d315-46
d0-aa71-c59f73da2c77

```
[13]:  #
       ws.delete(delete_dependent_resources=True)
```

```
        ---------------------------------------------------------------------------

        ErrorResponseWrapperException              Traceback (most recent call last)

        ~/anaconda3_501/lib/python3.6/site-packages/azureml/_project/_commands.py␣
    ↪in delete_workspace(auth, resource_group_name, workspace_name, subscription_id,␣
    ↪delete_dependent_resources, no_wait)
        401                     resource_group_name,
    --> 402                     workspace_name)
        403


        ~/anaconda3_501/lib/python3.6/site-packages/azureml/_base_sdk_common/
    ↪workspace/operations/workspaces_operations.py in get(self, resource_group_name,␣
    ↪workspace_name, custom_headers, raw, **operation_config)
        81          if response.status_code not in [200]:
    --> 82              raise models.ErrorResponseWrapperException(self.
    ↪_deserialize, response)
        83


        ErrorResponseWrapperException: Operation returned an invalid status code␣
    ↪'Not Found'


    During handling of the above exception, another exception occurred:


        ProjectSystemException                     Traceback (most recent call last)

        <ipython-input-13-4b470f3dbadd> in <module>
          1 #
    ----> 2 ws.delete(delete_dependent_resources=True)
```

```
~/anaconda3_501/lib/python3.6/site-packages/azureml/core/workspace.py in␣
↪delete(self, delete_dependent_resources, no_wait)
    563         _commands.delete_workspace(self._auth, self._resource_group,
    564                                     self._workspace_name, self.
↪_subscription_id, delete_dependent_resources,
--> 565                                             no_wait=no_wait)
    566
    567     def get_details(self):


~/anaconda3_501/lib/python3.6/site-packages/azureml/_project/_commands.py␣
↪in delete_workspace(auth, resource_group_name, workspace_name, subscription_id,␣
↪delete_dependent_resources, no_wait)
    408             return ml_workspace_delete(auth, subscription_id,␣
↪resource_group_name, workspace_name, no_wait)
    409       except ErrorResponseWrapperException as response_exception:
--> 410             resource_error_handling(response_exception, WORKSPACE)
    411
    412


~/anaconda3_501/lib/python3.6/site-packages/azureml/_base_sdk_common/
↪common.py in resource_error_handling(response_exception, resource_type)
    337     """General error handling for projects"""
    338     if response_exception.response.status_code == 404:
--> 339         raise ProjectSystemException("{resource_type} not found.".
↪format(resource_type=resource_type))
    340     else:
    341         response_message =␣
↪get_http_exception_response_string(response_exception.response)


ProjectSystemException: ProjectSystemException:
    Message: Workspace not found.
    InnerException None
    ErrorResponse
{
    "error": {
        "message": "Workspace not found."
    }
}
```

```
[ ]:
```