

Exploring Cisco Intersight PowerShell and Python SDK with Jupyter Notebook

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Agenda

- Introduction Intersight SDKs
- Lab Setup and SDK Install
 - https://github.com/dsoper2/DEVWKS-2254
- Connect/Query/Configure
- Code Gen
- Next Steps



Intersight SDK Overview



Intersight SDKs

- https://www.intersight.com/apidocs
 - Overview and usage instructions including Query examples
- https://developer.cisco.com/site/intersight/
 - DevNet example code, Learning Labs, and Sandboxes
- Python Package: https://pypi.org/project/intersight/
 - pip install intersight
- PowerShell Module: https://www.powershellgallery.com/packages/Intersight.PowerShell
 - Install-Module -Name Intersight.PowerShell



Lab Setup

- git clone https://github.com/dsoper2/DEVWKS-2254.git
- cd DEVWKS-2254
- https://intersight.com (guest<n>@intersighttme.com SSO)
 - Settings->API Keys->Generate API Key (use a version 3 key)
 - Copy API Key ID to clipboard and create src/ApiKeyldFile
 - echo 596cc79e5d9...0b8e7564612d336bc594 > src/ApiKeyldFile
 - Save Secret Key to src/SecretKey.txt
- make build; make run
- http://localhost:1001?arg=secret and '. conf.sh'



Connect Query Configure



Jupyter Notebook

- Run cells and make edits as needed
- PowerShell auth:

```
$onprem = @{
    BasePath = "https://intersight.com"
    ApiKeyId = Get-Content('./ApiKeyIdFile')
    ApiKeyFilePath = Resolve-Path('./SecretKey.txt')
    HttpSigningHeader = @("(request-target)", "Host", "Date", "Digest")
}
```

Python auth:



Code Gen





Thank you



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