



Esri International Developer Summit  
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# Administering ArcGIS Server with Python

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# ArcGIS REST API

- Introduction of REST API to make administrative changes at 10.1
- Every administrative task can be invoked through the API
  - Modify logs
  - Stop a service
  - Modify service settings
  - Change users and role permissions
  - ....the list goes on
- Which language will you use? (Python)
- <http://esriurl.com/scriptRESTAPI>

# Development pattern

- **Must authenticate (get a token)**
- **Build URLs to access different end points**
- **Most requests are POST (post something to the server)**
- **Send and receive a JSON payload**
  - JSON payload to “do something”
  - JSON status response

# Use the admin Tools Save logs Publish services

<http://github.com/arcpy>

```
...rt, adminUser, adminPass
...arcpy/admin/logs/clean?token={}&f=json
...earLogs, ' ').read()

...rorReportsCount and maxLogFileAge as
...):()/arcpy/admin/logs/settings?f=json
...llib2.urlopen(currLogSettings_url,

...along with new log setting back into
...: logSettingProps['logDir'],
...el": logLevel,
...rReportsCount": logSettingProps['max
...fileAge": logSettingProps['maxLogFile

...logLevel_dict)
...arcpy/admin/logs/settings/edit?f=json
...rlopen(logLevel_url, log_encode).read

...ess':
...log level to {}".format(logLevel)
...ed"
```

## Built in `_server_admin`

- Built ins leverage `_server_admin`
- [http://resources.arcgis.com/en/help/main/10.2/#/ArcGIS\\_Server\\_command\\_line\\_utilities/015400000626000000/](http://resources.arcgis.com/en/help/main/10.2/#/ArcGIS_Server_command_line_utilities/015400000626000000/)
- `<Python installation location>\python.exe "C:\Program Files\ArcGIS\Server\tools\admin\managesite.py" -u admin -p admin -s http://gissserver.domain.com:6080 -t -lc`

```
>>> import _server_admin as sa
>>> cat = sa.Catalog("http://arcola:6080/arcgis/rest/services")
>>> cat.currentVersion
10.21
>>> cat.services
[<GPServer - u'Returns the total number of rows for a feature class, table, layer, or raster.'
(u'http://arcola:6080/arcgis/rest/services/Master/GPServer/?f=json')>,
```

## C# Version

- **Stick around right here:**  
**ArcGIS for Server Administration API for C# Developers with Philip Heede**



Understanding our world.