Python Libraries for DevOps

Read JSON In Python
Read YAML In Python
Dictionary To JSON
Retrieve Data From JSON
Convert YAML To JSON In Python

Read JSON in Python

Python has built-in support for JSON formats through the standard library json.

Example:

```
import json

with open('example.json') as f:
    data = json.load(f)

print(data)
```

Read YAML In Python

Python has built-in support for JSON formats through the standard library json.

Example:

```
import yaml

with open('example.yaml', 'r') as f:
    data = yaml.safe_load(f)

print(data)
```

Dictionary to JSON

```
import json

data = {
    "name": "John",
    "age": 30,
    "city": "New York"
}

with open('example.json', 'w') as f:
    json.dump(data, f)

print("Data written to file.")
```

```
# example.json
{
"name": "John",
"age": 30,
"city": "New York"
}
```

Retrieve Data From JSON

```
import json

with open('services.json', 'r') as f:
    data = json.load(f)

for provider in data:
    services = ', '.join(data[provider])
    print(f"{provider}: {services}")
```

```
# services.json
{
"aws":
   ["ec2","s3","rds"],
"azure":
   ["VM","storage","sql"],
"gcp":
   ["compute engine","cloud
storage","SQL"]
}
```

YAML To JSON

```python
import yaml
import json

with open('services.yaml', 'r') as f:
    data = yaml.safe_load(f)

# Convert the YAML data to JSON
json_data = json.dumps(data)

print(json_data)
```

```yaml
# servicess.yaml
aws:
  - ec2
  - s3
  - rds
azure:
  - VM
  - storage
  - sql
gcp:
  - compute engine
  - cloud storage
  - sql
```