# Python-Viptela SDK

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# What is the Python-Viptela SDK?

- https://github.com/ciscodevnet/python-viptela
- A DevNet Community project made up of:
  - Cisco Public Sector Development Community
  - Cisco CX
  - Cisco Sales
  - Cisco Partners (e.g. World Wide Technologies)
  - Community participants



### Capabilities

- Easier way to access the API via Python, CLI, Ansible
- Supports multitenancy
- Idempotency (in most cases)
- Do no harm
- Full lifecycle of vManage control plane and edges
- Full lifecycle of templates and policy
- · DevOps, CI/CD



#### **API Structure**

- API Methods directly related to the API
- Data Methods that convert/transform the data from the API e.g. Convert object IDs to object names
- Utilities Utilities that
  e.g. Convert list to dictionary
- Apps Function specific methods
  e.g. Export/Import templates to/from file



#### **Demonstration Use Cases**

- Simple Device List, OMP Route List
- Export Templates
- Using Python, CLI, and Ansible



#### Other Use Cases

- Backup, detect drift
- Dynamically Adding/Changing Policy
- Testing Changes/Upgrades
- Provisioning/Bootstrapping Edges
- · CI/CD



## Try it out!

Go to the DevNet Cisco SD-WAN Sandbox and try the examples:

https://github.com/ciscodevnet/python-viptela

Get more ideas from our Cisco SD-WAN CI/CD pipeline:

https://github.com/ciscodevnet/sdwan-devops





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