

# Open Policy Agent Cheat Sheet

This cheat sheet serves as a reference guide to Open Policy Agent.

## Common Commands

create bundle with optimization

```
/opa_linux_amd64_0.54 build -b . -O=0
/opa_linux_amd64_0.54 build -b . -O=1
/opa_linux_amd64_0.54 build -b . -O=2
```

build wasm binary

```
/opa_linux_amd64_0.54 build -b . -t wasm

Incase of rego file that doesn't contain any entrypoint annotations,

/opa_linux_amd64_0.54 build . -t wasm --entrypoint authz/redfish/v1/
policy/allow
```

run OPA engine in HTTP mode with normal bundle or bundle containing Wasm binary

```
/opa_linux_amd64_0.54 run --server -b bundle.tar.gz
```

execute query evaluation via HTTP

```
curl -X POST --data-binary @test_input4.json http://localhost:8181/
v1/data/authz/redfish/v1/fine/policy
```

run OPA engine in unix domain socket mode

```
/opa_linux_amd64_0.54 run --server -b bundle.tar.gz -a unix:///home/
pathTo/socket
```

execute query evaluation via HTTP

```
curl -X POST --data-binary @test_input4.json http://localhost:8181/
v1/data/authz/redfish/v1/fine/policy

curl -X POST --data-binary @test_input1.json --unix-socket /home/
epraria/programs/socket http://localhost/v1/data/authz/redfish/v1/
/policy
```

explain command to see evaluation details

```
/programs/opa_linux_amd64_0.54 eval --explain=full -i
test_readRelays.json -b /repo/policy/optimizedRegoGlob/bundle.tar
.gz "data.authz.redfish.v1.policy"

/programs/opa_linux_amd64_0.54 eval -i test_readRelays.json -b /repo
/policy/unoptimizedRegocopy/bundle.tar.gz "data.authz.redfish.v1.
policy" --profile --format=pretty
```