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Text Part Number: 78EE117C99-1474512214

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Contents

1.1 x-oauth2 20221010-snapshot-6fdb5e3d

1.1.1 Available under license

1.2 googlecloudplatform/opentelemetry-operations-go v0.34.1

1.2.1 Available under license

1.3 go-contrack 20190716-snapshot-2f068394

1.3.1 Available under license

1.4 hashicorp-go-msgpack v0.5.5

1.4.1 Available under license

1.5 mergo 0.3.12

1.5.1 Available under license

1.6 google-uuid v1.3.0

1.6.1 Available under license

1.7 burntsushi-toml v0.3.1

1.7.1 Available under license

1.8 mitchellh-copystructure v1.2.0

1.8.1 Available under license

1.9 opentelemetry-collector v0.64.1

1.9.1 Available under license

1.10 sean-/seed 20170313-snapshot-e2103e2c

1.10.1 Available under license

1.11 x-xerrors 20220907-snapshot-04be3eba

1.11.1 Available under license

1.12 jsoniter-go v1.1.12

1.12.1 Available under license

1.13 opencensus-go-exporter-prometheus v0.4.2

1.13.1 Available under license

1.14 ginkgo 2.1.6

1.14.1 Available under license

1.15 modern-go-concurrent 20180305-snapshot-bacd9c7e

1.15.1 Available under license

1.16 protobuf v1.28.1

1.16.1 Available under license

1.17 ionos-cloud/sdk-go v6.1.2

1.17.1 Available under license

1.18 go-ole-go-ole v1.2.6

1.18.1 Available under license

1.19 term v0.1.0

1.19.1 Available under license

1.20 antonmedv/expr v1.9.0

1.20.1 Available under license

1.21 x-net v0.1.0

1.21.1 Available under license

1.22 go-zap v1.23.0

1.22.1 Available under license

1.23 protoc-gen-validate v0.6.7

1.23.1 Available under license

1.24 x-time 20220722-snapshot-e5dcc9cf

1.24.1 Available under license

1.25 lumberjack v2.0.0

1.25.1 Available under license

1.26 godoc-text v0.2.0

1.26.1 Available under license

1.27 mod v0.6.0

1.27.1 Available under license

1.28 gobwas-glob 0.2.3

1.28.1 Available under license

1.29 client-go v0.25.3

1.29.1 Available under license

1.30 go-restful v3.8.0

1.30.1 Available under license

1.31 gogo-protobuf v1.3.2

1.31.1 Available under license

1.32 go-ansiterm d185dfc1b5a126116ea5a19e148e29d16b4574c9

1.32.1 Available under license

1.33 open-telemetry/opentelemetry-go-contrib v1.11.1

- 1.33.1 Available under license
- 1.34 quicktest v1.14.3**
 - 1.34.1 Available under license
- 1.35 gotest.tools v3.2.0**
 - 1.35.1 Available under license
- 1.36 kubernetes-api v0.25.3**
 - 1.36.1 Available under license
- 1.37 mitchellh-reflectwalk v1.0.2**
 - 1.37.1 Available under license
- 1.38 goleak v1.2.0**
 - 1.38.1 Available under license
- 1.39 prometheus-procfs 0.8.0**
 - 1.39.1 Available under license
- 1.40 go-logfmt-logfmt v0.5.1**
 - 1.40.1 Available under license
- 1.41 hashicorp-go-uuid v1.0.3**
 - 1.41.1 Available under license
- 1.42 go-logr/stdr v1.2.2**
 - 1.42.1 Available under license
- 1.43 openshift/client-go 20210521-snapshot-73d9475a**
 - 1.43.1 Available under license
- 1.44 go-toml v1.9.5**
 - 1.44.1 Available under license
- 1.45 tidwall/tinylru v1.1.0**
 - 1.45.1 Available under license
- 1.46 rogpeppe-go-internal 1.9.0**
 - 1.46.1 Available under license
- 1.47 googleapis-gax-go v2.6.0**
 - 1.47.1 Available under license
- 1.48 gjson v1.10.2**
 - 1.48.1 Available under license
- 1.49 go-hclog v1.3.1**
 - 1.49.1 Available under license
- 1.50 modern-go-reflect2 v1.0.2**
 - 1.50.1 Available under license
- 1.51 alecthomas/repr v0.1.0**
 - 1.51.1 Available under license
- 1.52 sigs-k8s-io-yaml v1.3.0**
 - 1.52.1 Available under license

- 1.53 digitalocean-godo v1.82.0**
 - 1.53.1 Available under license
- 1.54 cenk/backoff v4.1.3**
 - 1.54.1 Available under license
- 1.55 github.com/yusufpapurcu/wmi v1.2.2**
 - 1.55.1 Available under license
- 1.56 hashicorp-go-cleanhttp v0.5.2**
 - 1.56.1 Available under license
- 1.57 matttproud-golang-protobuf-extensions 20190325-snapshot-c182affe**
 - 1.57.1 Available under license
- 1.58 golang-github-docker-go-connections-dev 0.4.0**
 - 1.58.1 Available under license
- 1.59 inconsahreaveable-mousetrap v1.0.1**
 - 1.59.1 Available under license
- 1.60 groupcache 20210331-snapshot-41bb18bf**
 - 1.60.1 Available under license
- 1.61 docker-registry 2.8.1**
 - 1.61.1 Available under license
- 1.62 docker-go-units v0.4.0**
 - 1.62.1 Available under license
- 1.63 go-openapi-jsonpointer v0.19.5**
 - 1.63.1 Available under license
- 1.64 go-ini-ini v1.67.0**
 - 1.64.1 Available under license
- 1.65 statsd_exporter v0.22.7**
 - 1.65.1 Available under license
- 1.66 mitchellh-go-homedir v1.1.0**
 - 1.66.1 Available under license
- 1.67 hjson/hjson-go v4.0.0**
 - 1.67.1 Available under license
- 1.68 logr v1.2.3**
 - 1.68.1 Available under license
- 1.69 hashicorp-hcl v1.0.0**
 - 1.69.1 Available under license
- 1.70 dennwc/varint v1.0.0**
 - 1.70.1 Available under license
- 1.71 hashicorp/cronexpr v1.1.1**
 - 1.71.1 Available under license
- 1.72 hashicorp-go-multierror v1.1.1**

- 1.72.1 Available under license
- 1.73 golang-github-spf13-pflag-dev v1.0.5**
 - 1.73.1 Available under license
- 1.74 google-gofuzz v1.2.0**
 - 1.74.1 Available under license
- 1.75 golang-snappy-go-dev v0.0.4**
 - 1.75.1 Available under license
- 1.76 mattn-go-isatty v0.0.14**
 - 1.76.1 Available under license
- 1.77 hashicorp-go-rootcerts v1.0.2**
 - 1.77.1 Available under license
- 1.78 kr-pretty v0.3.1**
 - 1.78.1 Available under license
- 1.79 mattn-go-colorable v0.1.12**
 - 1.79.1 Available under license
- 1.80 go-check-check 20201130-snapshot-10cb9826**
 - 1.80.1 Available under license
- 1.81 aws-sdk-for-go 1.44.133**
 - 1.81.1 Available under license
- 1.82 jsonpatch v4.12.0**
 - 1.82.1 Available under license
- 1.83 google-go-genproto 20221027-snapshot-115e99e7**
 - 1.83.1 Available under license
- 1.84 prometheus/prometheus v0.38.0**
 - 1.84.1 Available under license
- 1.85 golang-protobuf v1.5.2**
 - 1.85.1 Available under license
- 1.86 go-spew v1.1.1**
 - 1.86.1 Available under license
- 1.87 gopsutil v3.22.10**
 - 1.87.1 Available under license
- 1.88 mitchellh-hashstructure v2.0.2**
 - 1.88.1 Available under license
- 1.89 pmezard-go-difflib 1.0.0**
 - 1.89.1 Available under license
- 1.90 opencensus-go v0.24.0**
 - 1.90.1 Available under license
- 1.91 fsnotify-fsnotify v1.6.0**
 - 1.91.1 Available under license

1.92 pretty v1.2.0

1.92.1 Available under license

1.93 opencontainers-go-digest 1.0.0

1.93.1 Available under license

1.94 cespare-xxhash v2.1.2

1.94.1 Available under license

1.95 yaml-for-go v3.0.1

1.95.1 Available under license

1.96 jpillora-backoff 1.0.0

1.96.1 Available under license

1.97 prometheus-client v1.13.1

1.97.1 Available under license

1.98 uber-go-atomic v1.10.0

1.98.1 Available under license

1.99 alecthomas/assert v2.0.3

1.99.1 Available under license

1.100 grpc-go v1.50.1

1.100.1 Available under license

1.101 golang-appengine v1.6.7

1.101.1 Available under license

1.102 klauspost-compress v1.15.12

1.102.1 Available under license

1.103 mailru-easyjson v0.7.7

1.103.1 Available under license

1.104 google-go-cmp v0.5.9

1.104.1 Available under license

1.105 sigs.k8s.io/json 20220713-snapshot-f223a00b

1.105.1 Available under license

1.106 opencontainers-image-spec v1.0.2

1.106.1 Available under license

1.107 prometheus-common v0.1.0

1.107.1 Available under license

1.108 google-go-querystring v1.1.0

1.108.1 Available under license

1.109 oklog-ulid v1.3.1

1.109.1 Available under license

1.110 aec v1.0.0

1.110.1 Available under license

1.111 utils 20220728-snapshot-ee6ede2d

- 1.111.1 Available under license
- 1.112 btree v1.0.1**
 - 1.112.1 Available under license
- 1.113 go-zookeeper/zk v1.0.3**
 - 1.113.1 Available under license
- 1.114 text v0.4.0**
 - 1.114.1 Available under license
- 1.115 x-tools v0.2.0**
 - 1.115.1 Available under license
- 1.116 go-testify v1.8.1**
 - 1.116.1 Available under license
- 1.117 hashicorp-serf v0.9.7**
 - 1.117.1 Available under license
- 1.118 godotenv v1.3.0**
 - 1.118.1 Available under license
- 1.119 x-lint 20210508-snapshot-6edffad5**
 - 1.119.1 Available under license
- 1.120 alecthomas-units 20211218-snapshot-b94a6e3c**
 - 1.120.1 Available under license
- 1.121 go-autorest v14.2.0**
 - 1.121.1 Available under license
- 1.122 leoluk/perflib_exporter v0.2.0**
 - 1.122.1 Available under license
- 1.123 gorilla-websocket v1.5.0**
 - 1.123.1 Available under license
- 1.124 go-inf-inf v0.9.1**
 - 1.124.1 Available under license
- 1.125 tidwall/wal v1.1.7**
 - 1.125.1 Available under license
- 1.126 beorn7-perks v1.0.1**
 - 1.126.1 Available under license
- 1.127 match v1.1.1**
 - 1.127.1 Available under license
- 1.128 tklauser/go-sysconf 0.3.10**
 - 1.128.1 Available under license
- 1.129 mapstructure v1.5.0**
 - 1.129.1 Available under license
- 1.130 swag v0.22.1**
 - 1.130.1 Available under license

- 1.131 github.com/showmax/go-fqdn v1.0.0**
 - 1.131.1 Available under license
- 1.132 vultr/govultr v2.17.2**
 - 1.132.1 Available under license
- 1.133 github.com/golang-jwt/jwt v4.2.0**
 - 1.133.1 Available under license
- 1.134 docker v20.10.21**
 - 1.134.1 Available under license
- 1.135 x-sys v0.1.0**
 - 1.135.1 Available under license
- 1.136 go-immutable-radix v1.3.1**
 - 1.136.1 Available under license
- 1.137 hashicorp-golang-lru v0.5.4**
 - 1.137.1 Available under license
- 1.138 kolo/xmlrpc 20201020-snapshot-38db28db**
 - 1.138.1 Available under license
- 1.139 googleapis/enterprise-certificate-proxy v0.2.0**
 - 1.139.1 Available under license
- 1.140 moby/term 3f7ff695adc6a35abc925370dd0a4dafb48ec64d**
 - 1.140.1 Available under license
- 1.141 armon-go-metrics v0.3.10**
 - 1.141.1 Available under license
- 1.142 jaeger v1.39.0**
 - 1.142.1 Available under license
- 1.143 hetznercloud/hcloud-go v1.35.2**
 - 1.143.1 Available under license
- 1.144 kubernetes-apimachinery v0.25.3**
 - 1.144.1 Available under license
- 1.145 linodego v1.8.0**
 - 1.145.1 Available under license
- 1.146 stretchr-objx v0.5.0**
 - 1.146.1 Available under license
- 1.147 prometheus-client-model v0.3.0**
 - 1.147.1 Available under license
- 1.148 knadh/koanf v1.4.4**
 - 1.148.1 Available under license
- 1.149 x-crypto v0.1.0**
 - 1.149.1 Available under license
- 1.150 tklauser/numcpus 0.4.0**

- 1.150.1 Available under license
- 1.151 rs-cors v1.8.2**
 - 1.151.1 Available under license
- 1.152 fatih-color v1.13.0**
 - 1.152.1 Available under license
- 1.153 opencensus v0.4.1**
 - 1.153.1 Available under license
- 1.154 prometheus-common v0.37.0**
 - 1.154.1 Available under license
- 1.155 go-testing-interface v1.14.1**
 - 1.155.1 Available under license
- 1.156 yaml-for-go v2.4.0**
 - 1.156.1 Available under license
- 1.157 go-control-plane v0.10.3**
 - 1.157.1 Available under license
- 1.158 errwrap v1.0.0**
 - 1.158.1 Available under license
- 1.159 open-telemetry/opentelemetry-collector-contrib v0.64.0**
 - 1.159.1 Available under license
- 1.160 hashicorp-go-retryablehttp v0.7.1**
 - 1.160.1 Available under license
- 1.161 x-sync v0.1.0**
 - 1.161.1 Available under license
- 1.162 pkgerrors v0.9.1**
 - 1.162.1 Available under license
- 1.163 hashicorp-go-sockaddr v1.0.2**
 - 1.163.1 Available under license
- 1.164 jsonreference v0.20.0**
 - 1.164.1 Available under license
- 1.165 httpsnoop v1.0.3**
 - 1.165.1 Available under license
- 1.166 github.com/go-kit/log v0.2.1**
 - 1.166.1 Available under license
- 1.167 go-uber-org-multierr v1.8.0**
 - 1.167.1 Available under license
- 1.168 go-logrus v1.8.1**
 - 1.168.1 Available under license
- 1.169 jmespath-go-jmespath v0.4.0**
 - 1.169.1 Available under license

1.170 dnaeon/go-vcr v1.2.0

1.170.1 Available under license

1.171 goe v0.1.0

1.171.1 Available under license

1.172 josharian/intern v1.0.0

1.172.1 Available under license

1.173 golang-github-hashicorp-memberlist v0.3.1

1.173.1 Available under license

1.174 goautoneg 20191010-snapshot-a7dc8b61

1.174.1 Available under license

1.175 miekg-dns v1.1.50

1.175.1 Available under license

1.176 gophercloud v0.25.0

1.176.1 Available under license

1.177 microsoft-go-winio v0.5.2

1.177.1 Available under license

1.178 benbjohnson-clock v1.3.0

1.178.1 Available under license

1.179 iancoleman/strcase v0.2.0

1.179.1 Available under license

1.180 spf13-cast v1.5.0

1.180.1 Available under license

1.181 gomega v1.20.1

1.181.1 Available under license

1.182 azure-azure-sdk-for-go v65.0.0

1.182.1 Available under license

1.1 x-oauth2 20221010-snapshot-6fdb5e3d

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1.2 googlecloudplatform/opentelemetry-operations-go v0.34.1

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1.3 go-contrack 20190716-snapshot-2f068394

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1.5 mergo 0.3.12

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```
import: ../../../../fossene/db/schema/thing.yml
```

```
fields:
```

```
  site: string
```

```
  author: root
```

1.6 google-uuid v1.3.0

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Paul Borman <borman@google.com>

bmatsuo

shawnps

theory

jboverfelt

dsymonds

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1.7 burntsushi-toml v0.3.1

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1.8 mitchellh-copystructure v1.2.0

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1.9 opentelemetry-collector v0.64.1

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1.10 sean-/seed 20170313-snapshot-e2103e2c

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1.11 x-xerrors 20220907-snapshot-04be3eba

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1.12 jsoniter-go v1.1.12

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1.13 opencensus-go-exporter-prometheus

v0.4.2

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1.14 ginkgo 2.1.6

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1.15 modern-go-concurrent 20180305-snapshot-bacd9c7e

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1.16 protobuf v1.28.1

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1.17 ionos-cloud/sdk-go v6.1.2

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1.18 go-ole-go-ole v1.2.6

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1.28 gobwas-glob 0.2.3

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1.29 client-go v0.25.3

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package spec

// License information for the exposed API.

//

// For more information: <http://goo.gl/8us55a#licenseObject>

type License struct {

 Name string `json:"name,omitempty"`

 URL string `json:"url,omitempty"`

}

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Paul Borman <borman@google.com>

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theory

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Protocol Buffers for Go with Gadgets

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go-diff - <https://github.com/sergi/go-diff>

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golcs - <https://github.com/yudai/golcs>

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cli.go - <https://github.com/codegangsta/cli>

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gomega - <https://github.com/onsi/gomega>

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1.30 go-restful v3.8.0

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1.31 gogo-protobuf v1.3.2

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1.32 go-ansiterm

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1.33 open-telemetry/opentelemetry-go-contrib v1.11.1

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1.36 kubernetes-api v0.25.3

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1.39 prometheus-procfs 0.8.0

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1.40 go-logfmt-logfmt v0.5.1

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1.42 go-logr/stdr v1.2.2

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1.43 openshift/client-go 20210521-snapshot-73d9475a

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```

package spec

```
// License information for the exposed API.
//
// For more information: http://goo.gl/8us55a#licenseObject
type License struct {
    Name string `json:"name,omitempty"`
    URL  string `json:"url,omitempty"`
}
```

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Protocol Buffers for Go with Gadgets

Go support for Protocol Buffers - Google's data interchange format

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<https://github.com/golang/protobuf>

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1.44 go-toml v1.9.5

1.44.1 Available under license :

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localtime.go, localtime_test.go:

Originals:

<https://raw.githubusercontent.com/googleapis/google-cloud-go/ed46f5086358513cf8c25f8e3f022cb838a49d66/civil/civil.go>

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Changes:

- * Renamed files from civil* to localtime*.
- * Package changed from civil to toml.
- * 'Local' prefix added to all structs.

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1.45 tidwall/tinyru v1.1.0

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1.46 rogpeppe-go-internal 1.9.0

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1.47 googleapis-gax-go v2.6.0

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1.48 gjson v1.10.2

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1.51 alecthomas/repr v0.1.0

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1.58 golang-github-docker-go-connections-dev 0.4.0

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1.60 groupcache 20210331-snapshot-41bb18bf

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1.61 docker-registry 2.8.1

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1.75 golang-snappy-go-dev v0.0.4

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1.76 mattn-go-isatty v0.0.14

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1.81 aws-sdk-for-go 1.44.133

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1.89 pmezard-go-difflib 1.0.0

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1.96 jpillora-backoff 1.0.0

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1.98 uber-go-atomic v1.10.0

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1.99 alecthomas/assert v2.0.3

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1.100 grpc-go v1.50.1

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1.103 mailru-easyjson v0.7.7

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1.105 sigs.k8s.io/json 20220713-snapshot-f223a00b

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1.106 opencontainers-image-spec v1.0.2

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1.115 x-tools v0.2.0

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```

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// license that can be found in the LICENSE file.

//go:build go1.18
// +build go1.18

// Package copyright checks that files have the correct copyright notices.
package copyright

import (
    "go/ast"
    "go/parser"
    "go/token"
    "io/fs"
    "io/ioutil"
    "path/filepath"
    "regexp"
    "strings"
)

func checkCopyright(dir string) ([]string, error) {
    var files []string
    err := filepath.WalkDir(dir, func(path string, d fs.DirEntry, err error) error {
        if err != nil {
            return err
        }
        if d.IsDir() {
            // Skip directories like ".git".
            if strings.HasPrefix(d.Name(), ".") {
                return filepath.SkipDir
            }
            // Skip any directory that starts with an underscore, as the go
            // command would.
            if strings.HasPrefix(d.Name(), "_") {
                return filepath.SkipDir
            }
        }
        return nil
    })
    needsCopyright, err := checkFile(dir, path)
    if err != nil {
        return err
    }
    if needsCopyright {
        files = append(files, path)
    }
    return files, nil
}

```

```
return files, err
}
```

var copyrightRe = regexp.MustCompile(`Copyright \d{4} The Go Authors. All rights reserved.
Use of this source code is governed by a BSD-style
license that can be found in the LICENSE file.`)

```
func checkFile(toolsDir, filename string) (bool, error) {
// Only check Go files.
if !strings.HasSuffix(filename, ".go") {
return false, nil
}
// Don't check testdata files.
normalized := strings.TrimPrefix(filepath.ToSlash(filename), filepath.ToSlash(toolsDir))
if strings.Contains(normalized, "/testdata/") {
return false, nil
}
// goyacc is the only file with a different copyright header.
if strings.HasSuffix(normalized, "cmd/goyacc/yacc.go") {
return false, nil
}
content, err := ioutil.ReadFile(filename)
if err != nil {
return false, err
}
fset := token.NewFileSet()
parsed, err := parser.ParseFile(fset, filename, content, parser.ParseComments)
if err != nil {
return false, err
}
// Don't require headers on generated files.
if isGenerated(fset, parsed) {
return false, nil
}
shouldAddCopyright := true
for _, c := range parsed.Comments {
// The copyright should appear before the package declaration.
if c.Pos() > parsed.Package {
break
}
if copyrightRe.MatchString(c.Text()) {
shouldAddCopyright = false
break
}
}
return shouldAddCopyright, nil
}
```

```

// Copied from golang.org/x/tools/gopls/internal/lsp/source/util.go.
// Matches cgo generated comment as well as the proposed standard:
//
// https://golang.org/s/generatedcode
var generatedRx = regexp.MustCompile(`// .*DO NOT EDIT\.?`)

func isGenerated(fset *token.FileSet, file *ast.File) bool {
    for _, commentGroup := range file.Comments {
        for _, comment := range commentGroup.List {
            if matched := generatedRx.MatchString(comment.Text); !matched {
                continue
            }
            // Check if comment is at the beginning of the line in source.
            if pos := fset.Position(comment.Slash); pos.Column == 1 {
                return true
            }
        }
    }
    return false
}

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//go:build go1.18
// +build go1.18

package copyright

import (
    "os"
    "path/filepath"
    "strings"
    "testing"
)

func TestToolsCopyright(t *testing.T) {
    cwd, err := os.Getwd()
    if err != nil {
        t.Fatal(err)
    }
    tools := filepath.Dir(cwd)
    if !strings.HasSuffix(filepath.Base(tools), "tools") {
        t.Fatalf("current working directory is %s, expected tools", tools)
    }
    files, err := checkCopyright(tools)
    if err != nil {
        t.Fatal(err)
    }
}

```



```
}  
if len(files) > 0 {  
    t.Errorf("The following files are missing copyright notices:\n%s", strings.Join(files, "\n"))  
}  
}
```

1.116 go-testify v1.8.1

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1.117 hashicorp-serf v0.9.7

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1.118 godotenv v1.3.0

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1.119 x-lint 20210508-snapshot-6edffad5

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1.120 alecthomas-units 20211218-snapshot-b94a6e3c

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1.122 leoluk/perflib_exporter v0.2.0

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1.125 tidwall/wal v1.1.7

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1.126 beorn7-perks v1.0.1

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1.127 match v1.1.1

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1.128 tklauser/go-sysconf 0.3.10

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1.129 mapstructure v1.5.0

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1.130 swag v0.22.1

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1.131 github.com/showmax/go-fqdn v1.0.0

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1.132 [vultr/govultr](https://github.com/vultr/govultr) v2.17.2

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1.133 github.com/golang-jwt/jwt v4.2.0

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1.134 [docker](https://github.com/docker/docker) v20.10.21

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Protocol Buffers for Go with Gadgets

Go support for Protocol Buffers - Google's data interchange format

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<https://github.com/golang/protobuf>

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1.135 x-sys v0.1.0

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1.138 kolo/xmlrpc 20201020-snapshot-

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1.140 moby/term

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1.141 armon-go-metrics v0.3.10

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1.143 hetznercloud/hcloud-go v1.35.2

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1.144 kubernetes-apimachinery v0.25.3

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1.145 linodego v1.8.0

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1.146 stretchr-objx v0.5.0

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1.147 prometheus-client-model v0.3.0

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1.148 knadh/koanf v1.4.4

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1.149 x-crypto v0.1.0

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1.150 tklauser/numcpus 0.4.0

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1.151 rs-cors v1.8.2

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1.154 prometheus-common v0.37.0

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1.164 jsonreference v0.20.0

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1.166 github.com/go-kit/log v0.2.1

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1.167 go-uber-org-multierr v1.8.0

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1.168 go-logrus v1.8.1

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1.174 goautoneg 20191010-snapshot-a7dc8b61

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1.175 miekg-dns v1.1.50

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1.176 gophercloud v0.25.0

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package RESOURCE

```
import (  
    "github.com/gophercloud/gophercloud"  
    "github.com/gophercloud/gophercloud/pagination"  
)  
  
// RESOURCE represents...  
type Resource struct {  
}  
  
type commonResult struct {  
    gophercloud.Result  
}  
  
// GetResult is the response from a Get operation. Call its Extract method  
// to interpret it as a RESOURCE.  
type GetResult struct {  
    commonResult  
}  
  
// CreateResult is the response from a Create operation. Call its Extract method  
// to interpret it as a RESOURCE.  
type CreateResult struct {  
    commonResult  
}  
  
// DeleteResult is the response from a Delete operation. Call its ExtractErr to  
// determine if the request succeeded or failed.  
type DeleteResult struct {  
    gophercloud.ErrResult  
}  
  
// UpdateResult is the result of an Update request. Call its Extract method to  
// interpret it as a RESOURCE.
```

```

type UpdateResult struct {
    commonResult
}

// ResourcePage is a single page of RESOURCE results.
type ResourcePage struct {
    pagination.LinkedPageBase
}

// IsEmpty determines whether or not a page of RESOURCES contains any results.
func (r ResourcePage) IsEmpty() (bool, error) {
    resources, err := ExtractResources(r)
    return len(resources) == 0, err
}

// NextPageURL extracts the "next" link from the links section of the result.
func (r ResourcePage) NextPageURL() (string, error) {
    var s struct {
        Links struct {
            Next string `json:"next"`
            Previous string `json:"previous"`
        } `json:"links"`
    }
    err := r.ExtractInto(&s)
    if err != nil {
        return "", err
    }
    return s.Links.Next, err
}

// ExtractResources returns a slice of Resources contained in a single page of
// results.
func ExtractResources(r pagination.Page) ([]Resource, error) {
    var s struct {
        Resources []Resource `json:"resources"`
    }
    err := (r.(ResourcePage)).ExtractInto(&s)
    return s.Resources, err
}

// Extract interprets any commonResult as a Resource.
func (r commonResult) Extract() (*Resource, error) {
    var s struct {
        Resource *Resource `json:"resource"`
    }
    err := r.ExtractInto(&s)
    return s.Resource, err
}

```

Contributor Tutorial

=====

This tutorial is to help new contributors become familiar with the processes used by the Gophercloud team when adding a new feature or fixing a bug.

While we have a defined process for working on Gophercloud, we're very mindful that everyone is new to this in the beginning. Please reach out for help or ask for clarification if needed. No question is ever "dumb" or not worth our time answering.

To begin, go to [Step 1](step-01-introduction.md).

Step 5: Writing the Code

=====

At this point, you should have:

- [x] Identified a feature or bug fix
- [x] Opened an Issue about it
- [x] Located the project's service code which validates the feature or fix
- [x] Have an OpenStack environment available to test with

Now it's time to write the actual code! We recommend reading over the [CONTRIBUTING](/.github/CONTRIBUTING.md) guide again as a refresh. Notably the [Getting Started](/.github/CONTRIBUTING.md#getting-started) section will help you set up a `git` repository correctly.

We encourage you to browse the existing Gophercloud code to find examples of similar implementations. It would be a very rare occurrence for you to be implementing something that hasn't already been done.

Use the existing packages as templates and mirror the style, naming, and logic.

Types of Pull Requests

The amount of changes you plan to make will determine how much code you should submit as Pull Requests.

A Single Bug Fix

If you're implementing a single bug fix, then creating one `git` branch and submitting one Pull Request is fine.

Adding a Single Field

If you're adding a single field, then a single Pull Request is also fine. See

[#662](https://github.com/gophercloud/gophercloud/pull/662) as an example of this.

If you plan to add more than one missing field, you will need to open a Pull Request for `_each_` field.

Adding a Single API Call

Single API calls can also be submitted as a single Pull Request. See [#722](https://github.com/gophercloud/gophercloud/pull/722) as an example of this.

Adding a Suite of API Calls

If you're adding support for a "suite" of API calls (meaning: Create, Update, Delete, Get), then you will need to create one Pull Request for `_each_` call.

The following Pull Requests are good examples of how to do this:

- * <https://github.com/gophercloud/gophercloud/pull/584>
- * <https://github.com/gophercloud/gophercloud/pull/586>
- * <https://github.com/gophercloud/gophercloud/pull/587>
- * <https://github.com/gophercloud/gophercloud/pull/594>

You can also use the provided [template](/docs/contributor-tutorial/.template) as it contains a lot of the repeated boiler plate code seen in each resource. However, please make sure to thoroughly review and edit it as needed. Leaving templated portions in-place might be interpreted as rushing through the work and will require further rounds of review to fix.

Adding an Entire OpenStack Project

To add an entire OpenStack project, you must break each set of API calls into individual Pull Requests. Implementing an entire project can be thought of as implementing multiple API suites.

An example of this can be seen from the Pull Requests referenced in [#723](https://github.com/gophercloud/gophercloud/issues/723).

What to Include in a Pull Request

Each Pull Request should contain the following:

1. The actual Go code to implement the feature or bug fix
2. Unit tests
3. Acceptance tests
4. Documentation

Whether you want to bundle all of the above into a single commit or multiple commits is up to you. Use your preferred style.

Unit Tests

Unit tests should provide basic validation that your code works as intended.

Please do not use JSON fixtures from the API reference documentation. Please generate your own fixtures using the OpenStack environment you're [testing](step-04-acceptance-testing.md) with.

Acceptance Tests

Since unit tests are not run against an actual OpenStack environment, acceptance tests can arguably be more important. The acceptance tests that you include in your Pull Request should confirm that your implemented code works as intended with an actual OpenStack environment.

Documentation

All documentation in Gophercloud is done through in-line `godoc`. Please make sure to document all fields, functions, and methods appropriately. In addition, each package has a `doc.go` file which should be created or amended with details of your Pull Request, where appropriate.

Dealing with Related Pull Requests

If you plan to open more than one Pull Request, it's only natural that code from one Pull Request will be dependent on code from the prior Pull Request.

There are two methods of handling this:

Create Independent Pull Requests

With this method, each Pull Request has all of the code to fully implement the code in question. Each Pull Request can be merged in any order because it's self contained.

Use the following `git` workflow to implement this method:

```
```shell
$ git checkout master
$ git pull
$ git checkout -b identityv3-regions-create
$ (write your code)
$ git add .
```

```
$ git commit -m "Implementing Regions Create"

$ git checkout master
$ git checkout -b identityv3-regions-update
$ (write your code)
$ git add .
$ git commit -m "Implementing Regions Update"
^^^
```

Advantages of this Method:

- \* Pull Requests can be merged in any order
- \* Additional commits to one Pull Request are independent of other Pull Requests

Disadvantages of this Method:

- \* There will be a lot of duplicate code in each Pull Request
- \* You will have to rebase all other Pull Requests and resolve a good amount of merge conflicts.

### Create a Chain of Pull Requests

With this method, each Pull Request is based off of a previous Pull Request. Pull Requests will have to be merged in a specific order since there is a defined relationship.

Use the following `git` workflow to implement this method:

```
^^^shell
$ git checkout master
$ git pull
$ git checkout -b identityv3-regions-create
$ (write your code)
$ git add .
$ git commit -m "Implementing Regions Create"

$ git checkout -b identityv3-regions-update
$ (write your code)
$ git add .
$ git commit -m "Implementing Regions Update"
^^^
```

Advantages of this Method:

- \* Each Pull Request becomes smaller since you are building off of the last

Disadvantages of this Method:

\* If a Pull Request requires changes, you will have to rebase `_all_ child` Pull Requests based off of the parent.

The choice of method is up to you.

---

Once you have your code written, submit a Pull Request to Gophercloud and proceed to [Step 6](step-06-code-review.md).

Step 6: Code Review

=====

Once you've submitted a Pull Request, three things will happen automatically:

1. Travis-CI will run a set of simple tests:
  - a. Unit Tests
  - b. Code Formatting checks
  - c. ``go vet`` checks
2. Coveralls will run a coverage test.
3. [OpenLab](https://openlabtesting.org/) will run acceptance tests.

Depending on the results of the above, you might need to make additional changes to your code.

While you're working on the finishing touches to your code, it is helpful to add a ``[wip]`` tag to the title of your Pull Request.

You are most welcomed to take as much time as you need to work on your Pull Request. As well, take advantage of the automatic testing that is done to each commit.

### Travis-CI

If Travis reports code formatting issues, please make sure to run ``gofmt`` on all of your code. Travis will also report errors with unit tests, so you should ensure those are fixed, too.

### Coveralls

If Coveralls reports a decrease in test coverage, check and make sure you have provided unit tests. A decrease in test coverage is ``_sometimes_`` unavoidable and ignorable.

### OpenLab

OpenLab does not yet run a full suite of acceptance tests, so it's possible that the acceptance tests you've included were not run. When this happens, a core member for Gophercloud will run the tests manually.

There are times when a core reviewer does not have access to the resources required to run the acceptance tests. When this happens, it is essential that you've run them yourself (See [Step 4](step-04.md)).

### Request a Code Review

-----

When you feel your Pull Request is ready for review, please leave a comment requesting a code review. If you don't explicitly ask for a code review, a core member might not know the Pull Request is ready for review.

Additionally, if there are parts of your implementation that you are unsure about, please ask for help. We're more than happy to provide advice.

During the code review process, a core member will review the code you've submitted and either request changes or request additional information. Generally these requests fall under the following categories:

1. Code which needs to be reformatted (See our [Style Guide](/docs/STYLEGUIDE.md) for conventions used.
2. Requests for additional information about the validity of something. This might happen because the included supporting service code URLs don't have enough information.
3. Missing unit tests or acceptance tests.

### Submitting Changes

-----

If a code review requires changes to be submitted, please do not squash your commits. Please only add new commits to the Pull Request. This is to help the code reviewer see only the changes that were made.

### It's Never Personal

-----

Code review is a healthy exercise where a new set of eyes can sometimes spot items forgotten by the author.

Please don't take change requests personally. Our intention is to ensure the code is correct before merging.

---

Once the code has been reviewed and approved, a core member will merge your Pull Request.

Please proceed to [Step 7](step-07-congratulations.md).  
package testing

```
import (
 "fmt"
 "net/http"
 "testing"

 "github.com/gophercloud/gophercloud/openstack/service/vN/resources"
 th "github.com/gophercloud/gophercloud/testhelper"
 "github.com/gophercloud/gophercloud/testhelper/client"
)

// ListResult provides a single page of RESOURCE results.
const ListResult = `
{
}
`

// GetResult provides a Get result.
const GetResult = `
{
}
`

// CreateRequest provides the input to a Create request.
const CreateRequest = `
{
}
`

// UpdateRequest provides the input to as Update request.
const UpdateRequest = `
{
}
`

// UpdateResult provides an update result.
const UpdateResult = `
{
}
`
```

```

// FirstResource is the first resource in the List request.
var FirstResource = resources.Resource{ }

// SecondResource is the second resource in the List request.
var SecondResource = resources.Resource{ }

// SecondResourceUpdated is how SecondResource should look after an Update.
var SecondResourceUpdated = resources.Resource{ }

// ExpectedResourcesSlice is the slice of resources expected to be returned from ListResult.
var ExpectedResourcesSlice = []resources.Resource{FirstResource, SecondResource}

// HandleListResourceSuccessfully creates an HTTP handler at `/resources` on the
// test handler mux that responds with a list of two resources.
func HandleListResourceSuccessfully(t *testing.T) {
 th.Mux.HandleFunc("/resources", func(w http.ResponseWriter, r *http.Request) {
 th.TestMethod(t, r, "GET")
 th.TestHeader(t, r, "Accept", "application/json")
 th.TestHeader(t, r, "X-Auth-Token", client.TokenID)

 w.Header().Set("Content-Type", "application/json")
 w.WriteHeader(http.StatusOK)
 fmt.Fprintf(w, ListResult)
 })
}

// HandleGetResourceSuccessfully creates an HTTP handler at `/resources` on the
// test handler mux that responds with a single resource.
func HandleGetResourceSuccessfully(t *testing.T) {
 th.Mux.HandleFunc("/resources/9fe1d3", func(w http.ResponseWriter, r *http.Request) {
 th.TestMethod(t, r, "GET")
 th.TestHeader(t, r, "Accept", "application/json")
 th.TestHeader(t, r, "X-Auth-Token", client.TokenID)

 w.Header().Set("Content-Type", "application/json")
 w.WriteHeader(http.StatusOK)
 fmt.Fprintf(w, GetResult)
 })
}

// HandleCreateResourceSuccessfully creates an HTTP handler at `/resources` on the
// test handler mux that tests resource creation.
func HandleCreateResourceSuccessfully(t *testing.T) {
 th.Mux.HandleFunc("/resources", func(w http.ResponseWriter, r *http.Request) {
 th.TestMethod(t, r, "POST")
 th.TestHeader(t, r, "X-Auth-Token", client.TokenID)
 th.TestJSONRequest(t, r, CreateRequest)
 })
}

```

```

 w.WriteHeader(http.StatusCreated)
 fmt.Fprintf(w, GetResult)
 })
}

// HandleDeleteResourceSuccessfully creates an HTTP handler at `/resources` on the
// test handler mux that tests resource deletion.
func HandleDeleteResourceSuccessfully(t *testing.T) {
 th.Mux.HandleFunc("/resources/9fe1d3", func(w http.ResponseWriter, r *http.Request) {
 th.TestMethod(t, r, "DELETE")
 th.TestHeader(t, r, "X-Auth-Token", client.TokenID)

 w.WriteHeader(http.StatusNoContent)
 })
}

// HandleUpdateResourceSuccessfully creates an HTTP handler at `/resources` on the
// test handler mux that tests resource update.
func HandleUpdateResourceSuccessfully(t *testing.T) {
 th.Mux.HandleFunc("/resources/9fe1d3", func(w http.ResponseWriter, r *http.Request) {
 th.TestMethod(t, r, "PATCH")
 th.TestHeader(t, r, "X-Auth-Token", client.TokenID)
 th.TestJSONRequest(t, r, UpdateRequest)

 w.WriteHeader(http.StatusOK)
 fmt.Fprintf(w, UpdateResult)
 })
}
package testing

import (
 "testing"

 "github.com/gophercloud/gophercloud/openstack/service/vN/resources"
 "github.com/gophercloud/gophercloud/pagination"
 th "github.com/gophercloud/gophercloud/testhelper"
 "github.com/gophercloud/gophercloud/testhelper/client"
)

func TestListResources(t *testing.T) {
 th.SetupHTTP()
 defer th.TeardownHTTP()
 HandleListResourcesSuccessfully(t)

 count := 0
 err := resources.List(client.ServiceClient(), nil).EachPage(func(page pagination.Page) (bool, error) {
 count++
 })
}

```



```

actual, err := resources.ExtractResources(page)
th.AssertNoErr(t, err)

th.AssertDeepEquals(t, ExpectedResourcesSlice, actual)

return true, nil
})
th.AssertNoErr(t, err)
th.AssertEquals(t, count, 1)
}

func TestListResourcesAllPages(t *testing.T) {
th.SetupHTTP()
defer th.TearDownHTTP()
HandleListResourcesSuccessfully(t)

allPages, err := resources.List(client.ServiceClient(), nil).AllPages()
th.AssertNoErr(t, err)
actual, err := resources.ExtractResources(allPages)
th.AssertNoErr(t, err)
th.AssertDeepEquals(t, ExpectedResourcesSlice, actual)
}

func TestGetResource(t *testing.T) {
th.SetupHTTP()
defer th.TearDownHTTP()
HandleGetResourceSuccessfully(t)

actual, err := resources.Get(client.ServiceClient(), "9fe1d3").Extract()
th.AssertNoErr(t, err)
th.AssertDeepEquals(t, SecondResource, *actual)
}

func TestCreateResource(t *testing.T) {
th.SetupHTTP()
defer th.TearDownHTTP()
HandleCreateResourceSuccessfully(t)

createOpts := resources.CreateOpts{
Name: "resource two",
}

actual, err := resources.Create(client.ServiceClient(), createOpts).Extract()
th.AssertNoErr(t, err)
th.AssertDeepEquals(t, SecondResource, *actual)
}

func TestDeleteResource(t *testing.T) {

```

```

th.SetupHTTP()
defer th.TearDownHTTP()
HandleDeleteResourceSuccessfully(t)

res := resources.Delete(client.ServiceClient(), "9fe1d3")
th.AssertNoErr(t, res.Err)
}

func TestUpdateResource(t *testing.T) {
th.SetupHTTP()
defer th.TearDownHTTP()
HandleUpdateResourceSuccessfully(t)

updateOpts := resources.UpdateOpts{
 Description: "Staging Resource",
}

actual, err := resources.Update(client.ServiceClient(), "9fe1d3", updateOpts).Extract()
th.AssertNoErr(t, err)
th.AssertDeepEquals(t, SecondResourceUpdated, *actual)
}
package RESOURCE

import (
 "github.com/gophercloud/gophercloud"
 "github.com/gophercloud/gophercloud/pagination"
)

// ListOptsBuilder allows extensions to add additional parameters to
// the List request
type ListOptsBuilder interface {
 ToResourceListQuery() (string, error)
}

// ListOpts provides options to filter the List results.
type ListOpts struct {
}

// ToResourceListQuery formats a ListOpts into a query string.
func (opts ListOpts) ToResourceListQuery() (string, error) {
 q, err := gophercloud.BuildQueryString(opts)
 return q.String(), err
}

// List retrieves a list of RESOURCES.
func List(client *gophercloud.ServiceClient, opts ListOptsBuilder) pagination.Pager {
 url := listURL(client)
 if opts != nil {

```

```

query, err := opts.ToResourceListQuery()
if err != nil {
 return pagination.Pager{Err: err}
}
url += query
}
return pagination.NewPager(client, url, func(r pagination.PageResult) pagination.Page {
 return ResourcePage{pagination.LinkedPageBase{PageResult: r}}
})
}

// Get retrieves details of a RESOURCE.
func Get(client *gophercloud.ServiceClient, id string) (r GetResult) {
 resp, err := client.Get(getURL(client, id), &r.Body, nil)
 _, r.Header, r.Err = gophercloud.ParseResponse(resp, err)
 return
}

// CreateOptsBuilder allows extensions to add additional parameters to
// the Create request.
type CreateOptsBuilder interface {
 ToResourceCreateMap() (map[string]interface{}, error)
}

// CreateOpts provides options used to create a RESOURCE.
type CreateOpts struct {
}

// ToResourceCreateMap formats a CreateOpts into a create request.
func (opts CreateOpts) ToResourceCreateMap() (map[string]interface{}, error) {
 return gophercloud.BuildRequestBody(opts, "resource")
}

// Create creates a new RESOURCE.
func Create(client *gophercloud.ServiceClient, opts CreateOptsBuilder) (r CreateResult) {
 b, err := opts.ToResourceCreateMap()
 if err != nil {
 r.Err = err
 return
 }
 resp, err := client.Post(createURL(client), &b, &r.Body, &gophercloud.RequestOpts{
 OkCodes: []int{201},
 })
 _, r.Header, r.Err = gophercloud.ParseResponse(resp, err)
 return
}

// Delete deletes a RESOURCE.

```

```

func Delete(client *gophercloud.ServiceClient, id string) (r DeleteResult) {
 resp, err := client.Delete(deleteURL(client, id), nil)
 _, r.Header, r.Err = gophercloud.ParseResponse(resp, err)
 return
}

// UpdateOptsBuilder allows extensions to add additional parameters to
// the Update request.
type UpdateOptsBuilder interface {
 ToResourceUpdateMap() (map[string]interface{ }, error)
}

// UpdateOpts represents parameters to update a RESOURCE.
type UpdateOpts struct {
}

// ToUpdateCreateMap formats a UpdateOpts into an update request.
func (opts UpdateOpts) ToResourceUpdateMap() (map[string]interface{ }, error) {
 return gophercloud.BuildRequestBody(opts, "resource")
}

// Update modifies the attributes of a RESOURCE.
func Update(client *gophercloud.ServiceClient, id string, opts UpdateOptsBuilder) (r UpdateResult) {
 b, err := opts.ToResourceUpdateMap()
 if err != nil {
 r.Err = err
 return
 }
 resp, err := client.Patch(updateURL(client, id), b, &r.Body, &gophercloud.RequestOpts{
 OkCodes: []int{200},
 })
 _, r.Header, r.Err = gophercloud.ParseResponse(resp, err)
 return
}

```

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package RESOURCE

```
import "github.com/gophercloud/gophercloud"
```

```
func listURL(client *gophercloud.ServiceClient) string {
 return client.ServiceURL("resource")
}
```

```
func getURL(client *gophercloud.ServiceClient, id string) string {
 return client.ServiceURL("resource", id)
}
```

```
func createURL(client *gophercloud.ServiceClient) string {
 return client.ServiceURL("resource")
}
```



```
func deleteURL(client *gophercloud.ServiceClient, id string) string {
 return client.ServiceURL("resource", id)
}
```

```
func updateURL(client *gophercloud.ServiceClient, id string) string {
 return client.ServiceURL("resource", id)
}
```

Step 7: Congratulations!

=====

At this point your code is merged and you've either fixed a bug or added a new feature to Gophercloud!

We completely understand that this has been a long process. We appreciate your patience as well as the time you have taken for working on this. You've made Gophercloud a better project with your work.

Step 4: Acceptance Testing

=====

If we haven't started working on the feature or bug fix, why are we talking about Acceptance Testing now?

Before you implement a feature or bug fix, you must be able to test your code in a working OpenStack environment. Please do not submit code which you have only tested with offline unit tests.

Blindly submitting code is dangerous to the Gophercloud project. Developers from all over the world use Gophercloud in many different projects. If you submit code which is untested, it can cause these projects to break or become unstable.

And, to be frank, submitting untested code will inevitably cause someone else to have to spend time fixing it.

If you don't have an OpenStack environment to test with, we have lots of documentation [[here](#)](/acceptance) to help you build your own small OpenStack environment for testing.

---

Once you've confirmed you are able to test your code, proceed to [Step 5](step-05-pull-requests.md) to (finally!) start working on a Pull Request.

/\*

Package NAME manages and retrieves RESOURCE in the OpenStack SERVICE Service.

Example to List RESOURCE

Example to Create a RESOURCE

Example to Update a RESOURCE

Example to Delete a RESOURCE

\*/

package RESOURCE

Step 2: Create an Issue

=====

Every patch / Pull Request requires a corresponding issue. If you're fixing a bug for an existing issue, then there's no need to create a new issue.

However, if no prior issue exists, you must create an issue.

Reporting a Bug

-----

When reporting a bug, please try to provide as much information as you can.

The following issues are good examples for reporting a bug:

- \* <https://github.com/gophercloud/gophercloud/issues/108>
- \* <https://github.com/gophercloud/gophercloud/issues/212>
- \* <https://github.com/gophercloud/gophercloud/issues/424>
- \* <https://github.com/gophercloud/gophercloud/issues/588>
- \* <https://github.com/gophercloud/gophercloud/issues/629>
- \* <https://github.com/gophercloud/gophercloud/issues/647>

Feature Request

-----

If you've noticed that a feature is missing from Gophercloud, you'll also need to create an issue before doing any work. This is to start a discussion about whether or not the feature should be included in Gophercloud. We don't want to see you put in hours of work only to learn that the feature is out of scope of the project.

Feature requests can come in different forms:

### Adding a Feature to Gophercloud Core

The "core" of Gophercloud is the code which supports API requests and responses: pagination, error handling, building request bodies, and parsing response bodies are all examples of core code.

Modifications to core will usually have the most amount of discussion than other requests since a change to core will affect `_all_` of Gophercloud.

The following issues are examples of core change discussions:

- \* <https://github.com/gophercloud/gophercloud/issues/310>
- \* <https://github.com/gophercloud/gophercloud/issues/613>
- \* <https://github.com/gophercloud/gophercloud/issues/729>
- \* <https://github.com/gophercloud/gophercloud/issues/713>

### ### Adding a Missing Field

If you've found a missing field in an existing struct, submit an issue to request having it added. These kinds of issues are pretty easy to report and resolve.

You should also provide a link to the actual service's Python code which defines the missing field.

The following issues are examples of missing fields:

- \* <https://github.com/gophercloud/gophercloud/issues/620>
- \* <https://github.com/gophercloud/gophercloud/issues/621>
- \* <https://github.com/gophercloud/gophercloud/issues/658>

There's one situation which can make adding fields more difficult: if the field is part of an API extension rather than the base API itself. An example of this can be seen in [this](<https://github.com/gophercloud/gophercloud/issues/749>) issue.

Here, a user reported fields missing in the ``Get`` function of ``networking/v2/networks``. The fields reported missing weren't missing at all, they're just part of various Networking extensions located in ``networking/v2/extensions``.

### ### Adding a Missing API Call

If you've found a missing API action, create an issue with details of the action. For example:

- \* <https://github.com/gophercloud/gophercloud/issues/715>
- \* <https://github.com/gophercloud/gophercloud/issues/719>

You'll want to make sure the API call is part of the upstream OpenStack project and not an extension created by a third-party or vendor. Gophercloud only supports the OpenStack projects proper.

### ### Adding a Missing API Suite

Adding support to a missing suite of API calls will require more than one Pull Request. However, you can use a single issue for all PRs.

Examples of issues which track the addition of a missing API suite are:

- \* <https://github.com/gophercloud/gophercloud/issues/539>
- \* <https://github.com/gophercloud/gophercloud/issues/555>
- \* <https://github.com/gophercloud/gophercloud/issues/571>
- \* <https://github.com/gophercloud/gophercloud/issues/583>
- \* <https://github.com/gophercloud/gophercloud/issues/605>

Note how the issue breaks down the implementation by request types (Create, Update, Delete, Get, List).

Also note how these issues provide links to the service's Python code. These links are not required for `_issues_`, but it's usually a good idea to provide them, anyway. These links `_are required_` for PRs and that will be covered in detail in a later step of this tutorial.

### ### Adding a Missing OpenStack Project

These kinds of feature additions are large undertakings. Adding support for an entire OpenStack project is something the Gophercloud team very much appreciates, but you should be prepared for several weeks of work and interaction with the Gophercloud team.

An example of how to create an issue for an entire project can be seen here:

- \* <https://github.com/gophercloud/gophercloud/issues/723>

---

With all of the above in mind, proceed to [Step 3](step-03-code-hunting.md) to learn about Code Hunting.

#### Step 3: Code Hunting

=====

If you plan to submit a feature or bug fix to Gophercloud, you must be able to prove your code correctly works with the OpenStack service in question.

Let's use the following issue as an example:

[<https://github.com/gophercloud/gophercloud/issues/621>](<https://github.com/gophercloud/gophercloud/issues/621>).

In this issue, there's a request being made to add support for

``availability_zone_hints`` to the ``networking/v2/networks`` package.

Meaning, we want to change:

```
```go
type Network struct {
    ID      string `json:"id"`
    Name    string `json:"name"`
    AdminStateUp bool `json:"admin_state_up"`
    Status  string `json:"status"`
    Subnets []string `json:"subnets"`
    TenantID string `json:"tenant_id"`
    Shared  bool `json:"shared"`
}
```
```

to look like

```
```go
type Network struct {
    ID      string `json:"id"`
    Name    string `json:"name"`
    AdminStateUp bool `json:"admin_state_up"`
    Status  string `json:"status"`
    Subnets []string `json:"subnets"`
    TenantID string `json:"tenant_id"`
    Shared  bool `json:"shared"`

    AvailabilityZoneHints []string `json:"availability_zone_hints"`
}
```
```

We need to be sure that `availability\_zone\_hints` is a field which really does exist in the OpenStack Neutron project and it's not a field which was added as a customization to a single OpenStack cloud.

In addition, we need to ensure that `availability\_zone\_hints` is really a `[]string` and not a different kind of type.

One way of verifying this is through the [OpenStack API reference documentation](<https://developer.openstack.org/api-ref/network/v2/>). However, the API docs might either be incorrect or they might not provide all of the details we need to know in order to ensure this field is added correctly.

> Note: when we say the API docs might be incorrect, we are not implying  
> that the API docs aren't useful or that the contributors who work on the API  
> docs are wrong. OpenStack moves fast. Typos happen. Forgetting to update  
> documentation happens.

Since the OpenStack service itself correctly accepts and processes the fields,

the best source of information on how the field works is in the service code itself.

Continuing on with using #621 as an example, we can find the definition of `availability\_zone\_hints` in the following piece of code:

```
https://github.com/openstack/neutron/blob/8e9959725eda4063a318b4ba6af1e3494cad9e35/neutron/objects/network.py#L191
```

The above code confirms that `availability\_zone\_hints` is indeed part of the `Network` object and that its type is a list of strings (`[]string`).

This example is a best-case situation: the code is relatively easy to find and it's simple to understand. However, there will be times when proving the implementation in the service code is difficult. Make no mistake, this is `_not_` fun work. This can sometimes be more difficult than writing the actual patch for Gophercloud. However, this is an essential step to ensuring the feature or bug fix is correctly added to Gophercloud.

Examples of good code hunting can be seen here:

- \* <https://github.com/gophercloud/gophercloud/issues/539>
- \* <https://github.com/gophercloud/gophercloud/issues/555>
- \* <https://github.com/gophercloud/gophercloud/issues/571>
- \* <https://github.com/gophercloud/gophercloud/issues/583>
- \* <https://github.com/gophercloud/gophercloud/issues/605>

#### Code Hunting Tips

-----

OpenStack projects differ from one to another. Code is organized in different ways. However, the following tips should be useful across all projects.

- \* The logic which implements Create and Delete actions is usually either located in the "model" or "controller" portion of the code.
- \* Use Github's search box to search for the exact field you're working on. Review all results to gain a good understanding of everywhere the field is used.
- \* When adding a field, look for an object model or a schema of some sort.

---

Proceed to [Step 4](step-04-acceptance-testing.md) to learn about Acceptance Testing.

Step 1: Read Our Guides

=====

There are two introductory guides you should read before proceeding:

\* [CONTRIBUTING](/.github/CONTRIBUTING.md): The Contributing guide is a detailed document which describes the different ways you can contribute to Gophercloud and how to get started. This tutorial you're reading is very similar to that guide, but presented in a different way. We still recommend you read it over.

\* [STYLE](/docs/STYLEGUIDE.md): The Style Guide documents coding conventions used in the Gophercloud project.

---

When you've finished reading those guides, proceed to [Step 2](step-02-issues.md).

## 1.177 microsoft-go-winio v0.5.2

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aztemplate

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