TOSCA template for

e2e-service

Catalogue

1 TOSCA template for e2e-service

1.1 Data Types

1.1.1 gso.datatypes.service.basicInfo

Describe the basic information for the service

1.1.1.1 Properties

Name	Required	Type	Constraints	Description
createTime	No	string		The creation time of the service
updateTime	No	string		The update time of the service
creatorId	No	string		The identification of the creator
location	No	string		Location of the single domain

1.1.1.2 Definition

```
# ***********************************************************************
# data types
# ***********************************************************************
data_types:
    gso.datatypes.service.basicInfo:
        derived_from: tosca.datatypes.Root
        properties:
            createTime:
                    type: string
                    description: create time
            updateTime:
                type: string
                description: update time
            creatorId:
                type: string
                description: ID of the creator
            location:
                type: string
                description: Location of the single domain
```

1.2 Interface Types

1.2.1 gso.interfaces.lifecycle.Standard

There is the lifecycle standard interface of the service.

1.2.1.1 Properties

1.2.1.2 Definition

```
# **************************************************************************
# interface_types
# **************************************************************************
interface_types:
    gso.interfaces.lifecycle.Standard:
        derived_from: tosca.interfaces.Root
        create:
            description: Standard lifecycle create operation.
        update:
            description: Standard lifecycle configure and update operation.
        instantiate:
            description: Standard lifecycle instantiate operation.
        terminate:
            description: Standard lifecycle terminate operation.
        delete:
            description: Standard lifecycle delete operation.
        query:
            description: Standard lifecycle query operation.
        scalingIn:
            description: Standard lifecycle scalingIn operation.
        scalingOut:
            description: Standard lifecycle query operation.
```

1.3 Capability Types

1.3.1 gso.capability.SingleDomainNs

There is the depended capability of single domain network service.

1.3.1.1 Properties

1.3.1.2 Definition

```
capability_types:
    gso.capability.SingleDomainNs:
```

```
                     derived_from: tosca.capabilities.Root
```

1.4 Relationship Types

1.4.1 gso.relationship.DependOn

There is the relationship of single domain network service and global network service.

1.4.1.1 Properties

1.4.1.2 Definition

```
# *************************************************************************
# relationship types
# *************************************************************************
relationship_types:
    gso.relationship.DependOn:
        derived_from: tosca.relationships.Root
        description:
        valid_target_types: [gso.capability.SingleDomainNs]
```

1.5 Node Types

1.5.1 gso.node.Root

Root is the super class of all the gs-o network service.

1.5.1.1 Properties

Name	Required	Type	Constraints	Description
Id	Yes	string		The identification of the service
name	Yes	string		The name of the service
description	No	string		The description of the service

1.5.1.2 Definition

```
# *************************************************************************
# node types
# *************************************************************************
node_types:
    gso.node.Root:
        derived_from: tosca.nodes.Root
```

```
        description: gso root type
        properties:
            id:
                type: string
            name:
                type: string
            description:
                type: string
                required: false
```

1.5.2 gso.node.NetworkService

Describe the information for the network service

1.5.2.1 Properties

Name	Required	Type	Constraints	Description
baseServiceInfo	Yes	gso.datatypes.service.basicInfo		The basic information of the service
templateId	Yes	string		The template id of the service
serviceDefId	Yes	string		The csar package id of the service

1.5.2.2 Definition

```
gso.node.NetworkService:
        derived_from: gso.node.Root
        description: basic network service
        properties:
            baseServiceInfo:
                type: gso.datatypes.service.basicInfo
            templateId:
                type: string
            serviceDefId:
                type: string
        interfaces:
            standard:
                type: gso.interfaces.lifecycle.Standard
```

1.5.3 gso.node.SingleDomainNetworkService

Describe the information for the single domain network service

1.5.3.1 Properties

1.5.3.2 Definition

```
gso.node.SingleDomainNetworkService:
        derived_from: gso.node.NetworkService
        description: single domain network service
```

1.5.4 gso.node.CrossDomainNetworkService

Describe the basic information for cross domain network service

1.5.4.1 Properties

1.5.4.2 Definition

```
gso.node.CrossDomainNetworkService:
        derived_from: gso.node.NetworkService
        description: cross domain network service
        requirements:
            - realizes:
                    node: gso.node.SingleDomainNetworkService
                    capability: gso.capability.SingleDomainNs
                    relationship: gso.relationship.DependOn
                    occurrences: [2, UNBOUNDED]
```