

OCCI Crtp Extension

SPIRALS

August 22, 2017

1 OCCI crtp extension

Name	crtp
Scheme	http://schemas.ogf.org/occi/infrastructure/compute/template/1.1#
Specification	https://www.ogf.org/documents/GFD.222.pdf

1.1 Description

This profile specification describes a well-defined number of instances of the OCCI compute resource type defined in the Open Cloud Computing Interface (OCCI) family of specifications.

1.2 Imported OCCI extensions

Name	core
Scheme	http://schemas.ogf.org/occi/core#

Name	infrastructure
Scheme	http://schemas.ogf.org/occi/infrastructure#

1.3 Specification

The specification of OCCI Crtp extension is available here: <https://www.ogf.org/documents/GFD.222.pdf>.

1.4 Mixins

1.4.1 Small mixin

Name	Small
Scheme	http://schemas.ogf.org/occi/infrastructure/compute/template/1.1#
Title	A small Compute instance

Applies to:

- Compute (<http://schemas.ogf.org/occi/infrastructure#>)

Depends on:

- Resource_Tpl (<http://schemas.ogf.org/occi/infrastructure#>)
- Small attributes

Attribute	Type	Required	Mutable	Default	Description
occi.compute.cores	Core	false	true	1	Number of CPU cores assigned to the instance
occi.compute.memory	GiB	false	true	1.0	Maximum RAM in gigabytes allocated to the instance
occi.compute.ephemeral.storage.size	GiB	true	false	10.0	Ephemeral storage provisioned for the associated Compute instance

1.4.2 Medium mixin

Name	Medium
Scheme	http://schemas.ogf.org/occi/infrastructure/compute/template/1.1#
Title	A medium Compute instance

Applies to:

- Compute (<http://schemas.ogf.org/occi/infrastructure#>)

Depends on:

- Resource_Tpl (<http://schemas.ogf.org/occi/infrastructure#>)

- **Medium attributes**

Attribute	Type	Required	Mutable	Default	Description
occi.compute.cores	Core	false	true	2	Number of CPU cores assigned to the instance
occi.compute.memory	GiB	false	true	2.0	Maximum RAM in gigabytes allocated to the instance
occi.compute.ephemeral.storage.size	GiB	true	false	20.0	Ephemeral storage provisioned for the associated Compute instance

1.4.3 Large mixin

Name	Large
Scheme	http://schemas.ogf.org/occi/infrastructure/compute/template/1.1#
Title	A large Compute instance

Applies to:

- Compute (<http://schemas.ogf.org/occi/infrastructure#>)

Depends on:

- Resource_Tpl (<http://schemas.ogf.org/occi/infrastructure#>)
- **Large attributes**

Attribute	Type	Required	Mutable	Default	Description
occi.compute.cores	Core	false	true	4	Number of CPU cores assigned to the instance
occi.compute.memory	GiB	false	true	4.0	Maximum RAM in gigabytes allocated to the instance
occi.compute.ephemeral.storage.size	GiB	true	false	40.0	Ephemeral storage provisioned for the associated Compute instance

1.4.4 Mem.Small mixin

Name	Mem.Small
Scheme	http://schemas.ogf.org/occi/infrastructure/compute/template/1.1#
Title	A small Compute instance for memory-intensive applications

Applies to:

- Compute (<http://schemas.ogf.org/occi/infrastructure#>)

Depends on:

- Resource_Tpl (<http://schemas.ogf.org/occi/infrastructure#>)
- **Mem.Small attributes**

Attribute	Type	Required	Mutable	Default	Description
occi.compute.cores	Core	false	true	1	Number of CPU cores assigned to the instance
occi.compute.memory	GiB	false	true	4.0	Maximum RAM in gigabytes allocated to the instance
occi.compute.ephemeral.storage.size	GiB	true	false	10.0	Ephemeral storage provisioned for the associated Compute instance

1.4.5 Mem_Medium mixin

Name	Mem_Medium
Scheme	http://schemas.ogf.org/occi/infrastructure/compute/template/1.1#
Title	A medium Compute instance for memory-intensive applications

Applies to:

- Compute (<http://schemas.ogf.org/occi/infrastructure#>)

Depends on:

- Resource_Tpl (<http://schemas.ogf.org/occi/infrastructure#>)

- Mem_Medium attributes

Attribute	Type	Required	Mutable	Default	Description
occi.compute.cores	Core	false	true	2	Number of CPU cores assigned to the instance
occi.compute.memory	GiB	false	true	8.0	Maximum RAM in gigabytes allocated to the instance
occi.compute.ephemeral.storage.size	GiB	true	false	20.0	Ephemeral storage provisioned for the associated Compute instance

1.4.6 Mem_Large mixin

Name	Mem_Large
Scheme	http://schemas.ogf.org/occi/infrastructure/compute/template/1.1#
Title	A large Compute instance for memory-intensive applications

Applies to:

- Compute (<http://schemas.ogf.org/occi/infrastructure#>)

Depends on:

- Resource_Tpl (<http://schemas.ogf.org/occi/infrastructure#>)

- Mem_Large attributes

Attribute	Type	Required	Mutable	Default	Description
occi.compute.cores	Core	false	true	4	Number of CPU cores assigned to the instance
occi.compute.memory	GiB	false	true	16.0	Maximum RAM in gigabytes allocated to the instance
occi.compute.ephemeral.storage.size	GiB	true	false	40.0	Ephemeral storage provisioned for the associated Compute instance