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# OCCI User Interface (XHTML5)

2009-10-21

## Overview

XHTML5 is an XML-based “concrete syntax” of the HTML5 “abstract language” (the “World Wide Web's markup language”). It is served using the `application/xhtml+xml` Internet media type. HTML5

## XHTML5

XHTML5 is used to describe a user-friendly rendering of the object, optionally with images, icons, javascript, etc. embedded. It is also marked up with RDFa attributes so as it is also machine readable.

Pages are typically either lists of resources (e.g. `<ul>`, `<ol>`, `<tr>` etc.) or a rendering of an individual resource.

## Example

```
<?xml version="1.0" encoding="UTF-8"?>
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.1//EN"
  "http://www.w3.org/TR/xhtml11/DTD/xhtml11.dtd">

<html xmlns="http://www.w3.org/1999/xhtml" xml:lang="en">
<head>
  <title>OCCI: My Virtual Machine</title>
</head>

<body xmlns:dc="http://purl.org/dc/elements/1.1/" xmlns:occi="http://purl.org/occi/">

<h1 property="occi:title">My Virtual Machine</h1>
<span property="occi:summary">A simple sample virtual machine</span>

Console:
<a href="/myvm/console.png" rel="http://purl.org/occi/compute#console" type="image">

Attributes:
<ul>
  <li>ID: <span property="occi:id">urn:uuid:164a3064-1176-4de3-b24e-e16dc8c2d4e</span>
  <li>Cores: <span property="occi:compute.cores">2</span></li>
  <li>Memory: <span property="occi:compute.memory">2048</span></li>
</ul>

Actions:
<form method="POST" action="/myvm/start"><input type="image" src="occi-start.png">
<form method="POST" action="/myvm/stop"><input type="image" src="occi-stop.png">
<form method="POST" action="/myvm/restart"><input type="image" src="occi-restart.png">

Download
<a href="/myvm.ovf" rel="alternate" type="application/ovf+xml">
<a href="/myvm.xen" rel="alternate" type="application/xen+xml">

</body>
</html>
```

## Collections

```
<?xml version="1.0" encoding="UTF-8"?>
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.1//EN"
    "http://www.w3.org/TR/xhtml11/DTD/xhtml11.dtd">

<html xmlns="http://www.w3.org/1999/xhtml" xml:lang="en">
<head>
    <title>OCCI: My Cloud</title>
</head>

<body xmlns:dc="http://purl.org/dc/elements/1.1/" xmlns:occi="http://purl.org/occi/">
<h1>My Cloud</h1>

Compute Resources:
<table>
    <th>
        <td>Console</td>
        <td>ID</td>
        <td>Cores</td>
        <td>Memory</td>
        <td>Actions</td>
        <td>Formats</td>
    </th>
    <tr typeof="occi:compute" about="/myvm">
        <td><a href="/myvm/console.png" rel="http://purl.org/occi/compute#console" >
        <td property="occi:title">urn:uuid:164a3064-1176-4de3-b24e-e16dc8c2d4ed</td>
        <td>
            <span property="occi:title">My Virtual Machine</span><br />
            <span property="occi:summary">A simple sample virtual machine</span><br />
        </td>
        <td property="occi:compute.cores">2</td>
        <td property="occi:compute.memory">2048</td>
        <td>
            <form method="POST" action="/myvm/start"><input type="image" src="occi-st
            <form method="POST" action="/myvm/stop"><input type="image" src="occi-stop
            <form method="POST" action="/myvm/restart"><input type="image" src="occi-
        </td>
        <td>
            <a href="/myvm.ovf" rel="alternate" type="application/ovf+xml"> [http://tools.ietf.org/html/rfc4287]. Ian Hickson. David Hyatt. World Wide Web Consortium (W3C) 2009-08-25.

[RDFa] *RDFa*. . . World Wide Web Consortium (W3C) .

### Informative References

[http-article] *Is HTTP the HTTP of cloud computing?*. <http://samj.net/2009/05/is-http-http-of-cloud-computing.html> [http://samj.net/2009/05/is-atompub-al-ready-http-of-cloud.html]. Sam Johnston. Australian Online Solutions 2009-05-25.

[HTML5-article] *Misunderstanding Markup: XHTML 2/HTML 5 Comic Strip*. <http://www.smashingmagazine.com/2009/07/29/misunderstanding-markup-xhtml-2-comic-strip/>. Jeremy Keith. Brad Colbow. 2009-07-29.