

# Using REST to Alfresco



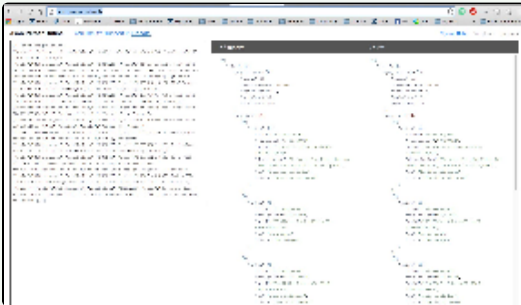
RESTfull services are done via Alfresco WebScripts - See all WebScripts for an Alfresco installation at <http://alfresco.server.dk/alfresco/service/index/all>

My main interest is working with Document Libraries, *the other Alfresco stuff I dont use* - that part is in my Atlassian Confluence at [www.mos-eisley.dk](http://www.mos-eisley.dk).

So the most interesting WebScripts seems to be in <http://alfresco.mos-eisley.dk/alfresco/service/index/package/org/alfresco/slideshow>



Use <http://json.parser.online.fr/> to review and validate returned JSON



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## Getting a list of sites

Review <http://docs.alfresco.com/5.1/pr/1/concepts/pr-request-api-format.html>

Do also review <http://docs.alfresco.com/5.1/pr/1/concepts/pr-parameters.html> in the process

```
batman:~ bnp$ curl -u username:password http://alfresco.mos-eisley.dk/alfresco/api/-default-/public/alfresco/versions/1/sites/
```

Produces this JSON

```
{
  "list":
  { "pagination":
    { "count":10,
      "hasMoreItems":false,
      "totalItems":10,
      "skipCount":0,
      "maxItems":100
    },
    "entries":
    [ { "entry":
        { "role": "SiteManager",
          "visibility": "PRIVATE",
          "guid": "317e34c7-bc2f-4cd4-9083-127199718886",
          "description": "Private Familiebiller for Toke, Normann, Anette & Christopher",
          "id": "familie-billeder",
          "title": "Familie Billeder"
        },
        { "entry":
          { "role": "SiteManager",
            "visibility": "PUBLIC",
            "guid": "55970abc-0e80-4839-bef5-0596b5d8aa76",
            "id": "mc-revyen",
            "title": "MC Revyen"
          }
        }
      ]
  }
}
```

```

    },
    {
      "entry": {
        "role": "SiteManager",
        "visibility": "PRIVATE",
        "guid": "2ce7267b-7c0e-4a50-93e3-13d13bbad8ce",
        "id": "netic-billeder",
        "title": "Netic Billeder"
      }
    },
    {
      "entry": {
        "role": "SiteManager",
        "visibility": "PRIVATE",
        "guid": "cf74ce4d-259a-49c6-88fc-3fe36140795c",
        "id": "private",
        "title": "Private"
      }
    },
    {
      "entry": {
        "role": "SiteManager",
        "visibility": "PUBLIC",
        "guid": "b507da0a-4769-4599-a4b9-530e59f18607",
        "id": "public",
        "title": "Public"
      }
    },
    {
      "entry": {
        "role": "SiteManager",
        "visibility": "PUBLIC",
        "guid": "fc3fc77c-e115-4a08-90f6-bb6ec66db1ef",
        "id": "sjov",
        "title": "Sjov"
      }
    },
    {
      "entry": {
        "role": "SiteManager",
        "visibility": "PUBLIC",
        "guid": "7f5708b2-f299-4d4d-87fc-5e480a162f40",
        "id": "slangereden",
        "title": "Slangereden"
      }
    },
    {
      "entry": {
        "role": "SiteManager",
        "visibility": "PUBLIC",
        "guid": "b4cff62a-664d-4d45-9302-98723eac1319",
        "description": "This is a Sample Alfresco Team site.",
        "id": "swsdp",
        "title": "Sample: Web Site Design Project"
      }
    },
    {
      "entry": {
        "role": "SiteManager",
        "visibility": "PUBLIC",
        "guid": "383d7ec3-8943-4bde-a23b-f468087bb70d",
        "description": "Bare til tests",
        "id": "test",
        "title": "Test"
      }
    },
    {
      "entry": {
        "role": "SiteManager",
        "visibility": "PRIVATE",
        "guid": "2341c4bb-d5b3-4b53-8fb6-c07bd4705742",
        "id": "vita-torbens-billeder",
        "title": "Vita og Torbens billeder"
      }
    }
  ]
}

```

# Get a list of Documents from a "root" folder

This is for the "familie-billeder" site, the URL is

```
curl -u bnp:username:password http://alfresco.mos-eisley.dk/alfresco/service/slideshow/doclib/doclist/{type}
/site/familie-billeder/{container}
type= document or folders
container = documentLibrary
```

giving us

```
curl -u bnp:username:password http://alfresco.mos-eisley.dk/alfresco/service/slideshow/doclib/doclist/folders
/site/sjov/documentLibrary
```

Produces this JSON

```
{
  "totalRecords": 4,
  "startIndex": 0,
  "metadata": {
    {
      "repositoryId": "21ea3cc1-2140-476e-a323-d1f8b066a695",
      "container": "workspace://SpacesStore/dd01c075-9f85-43f3-b3c7-390d1ce67d67",
      "parent": {
        {
          "nodeRef": "workspace://SpacesStore/dd01c075-9f85-43f3-b3c7-390d1ce67d67",
          "permissions": {
            {
              "userAccess": {
                {
                  "create": true,
                  "edit": true,
                  "delete": true,
                  "cancel-checkout": false,
                  "permissions": true
                }
              }
            }
          },
          "onlineEditing": false,
          "itemCounts": {
            {
              "folders": 4,
              "documents": 0
            }
          }
        },
        "items": [
          {
            "nodeRef": "workspace://SpacesStore/4746fb1d-8004-4000-9710-cc3c05aab5e7",
            "nodeType": "cm:folder",
            "type": "folder",
            "mimetype": "",
            "isFolder": true,
            "isLink": false,
            "fileName": "Papirsflyvere",
            "displayName": "Papirsflyvere",
            "status": "",
            "title": "",
            "description": "",
            "author": "",
            "createdOn": "2015-01-04T20:01:46.709+01:00",
            "createdBy": "Normann P. Nielsen",
            "createdByUser": "bnp",
            "modifiedOn": "2015-01-04T20:01:47.710+01:00",
```

```
"modifiedBy": "Normann P. Nielsen",
"modifiedByUser": "bnp",
"lockedBy": "",
"lockedByUser": "",
"size": "0",
"version": "1.0",
"contentUrl": "api/node/content/workspace/SpacesStore/4746fb1d-8004-4000-9710-cc3c05aab5e7/Papirsflyvere",
"webdavUrl": "\\webdav\\Sites\\sjov\\documentLibrary\\Papirsflyvere",
"actionSet": "folder",
"tags": [],
"activeWorkflows": "",
"likes":
{
  "isLiked": false,
  "totalLikes": 0
},
"location":
{
  "repositoryId": "21ea3cc1-2140-476e-a323-d1f8b066a695",
  "site": "sjov",
  "siteTitle": "Sjov",
  "container": "documentLibrary",
  "path": "\\",
  "file": "Papirsflyvere",
  "parent":
  {
    "nodeRef": "workspace:\\\\SpacesStore\\dd01c075-9f85-43f3-b3c7-390d1ce67d67"
  }
},
"permissions":
{
  "inherited": true,
  "roles":
  [
    "ALLOWED;GROUP_site_sjov_SiteContributor;SiteContributor;INHERITED",
    "ALLOWED;GROUP_EVERYONE;ReadPermissions;INHERITED",
    "ALLOWED;GROUP_EVERYONE;SiteConsumer;INHERITED",
    "ALLOWED;GROUP_site_sjov_SiteCollaborator;SiteCollaborator;INHERITED",
    "ALLOWED;GROUP_site_sjov_SiteConsumer;SiteConsumer;INHERITED",
    "ALLOWED;GROUP_site_sjov_SiteManager;SiteManager;INHERITED"
  ],
  "userAccess":
  {
    "create": true,
    "edit": true,
    "delete": true,
    "cancel-checkout": false,
    "permissions": true
  }
},
"custom": {},
"actionLabels":
{
  },
{
  "nodeRef": "workspace://SpacesStore/c7c14bde-69b6-4351-b41f-0016be053970",
  "nodeType": "cm:folder",
  "type": "folder",
  "mimetype": "",
  "isFolder": true,
  "isLink": false,
  "fileName": "Sjov med mad",
  "displayName": "Sjov med mad",
  "status": "",
  "title": "",
  "description": "",
  "author": "",
  "createdOn": "2015-01-04T19:57:00.474+01:00",
  "createdBy": "Normann P. Nielsen",
  "createdByUser": "bnp",
```

```
"modifiedOn": "2015-01-04T19:57:02.559+01:00",
"modifiedBy": "Normann P. Nielsen",
"modifiedByUser": "bnp",
"lockedBy": "",
"lockedByUser": "",
"size": "0",
"version": "1.0",
"contentUrl": "api/node/content/workspace/SpacesStore/c7c14bde-69b6-4351-b41f-0016be053970/Sjov%20med%20mad",
"webdavUrl": "\\webdav\\Sites\\sjov\\documentLibrary\\Sjov%20med%20mad",
"actionSet": "folder",
"tags": [],
"activeWorkflows": "",
"likes":
{
  "isLiked": false,
  "totalLikes": 0
},
"location":
{
  "repositoryId": "21ea3cc1-2140-476e-a323-d1f8b066a695",
  "site": "sjov",
  "siteTitle": "Sjov",
  "container": "documentLibrary",
  "path": "\\",
  "file": "Sjov med mad",
  "parent":
  {
    "nodeRef": "workspace:\\\\SpacesStore\\dd01c075-9f85-43f3-b3c7-390d1ce67d67"
  }
},
"permissions":
{
  "inherited": true,
  "roles":
  [
    "ALLOWED;GROUP_site_sjov_SiteContributor;SiteContributor;INHERITED",
    "ALLOWED;GROUP_EVERYONE;ReadPermissions;INHERITED",
    "ALLOWED;GROUP_EVERYONE;SiteConsumer;INHERITED",
    "ALLOWED;GROUP_site_sjov_SiteCollaborator;SiteCollaborator;INHERITED",
    "ALLOWED;GROUP_site_sjov_SiteConsumer;SiteConsumer;INHERITED",
    "ALLOWED;GROUP_site_sjov_SiteManager;SiteManager;INHERITED"
  ],
  "userAccess":
  {
    "create": true,
    "edit": true,
    "delete": true,
    "cancel-checkout": false,
    "permissions": true
  }
},
"custom": {},
"actionLabels":
{
  },
{
  "nodeRef": "workspace://SpacesStore/ca079145-d204-4c5f-bd69-768e8401e1cd",
  "nodeType": "cm:folder",
  "type": "folder",
  "mimetype": "",
  "isFolder": true,
  "isLink": false,
  "fileName": "Sjove Dyr",
  "displayName": "Sjove Dyr",
  "status": "",
  "title": "",
  "description": "",
  "author": "",
  "createdOn": "2015-01-04T20:01:34.423+01:00",
  "createdBy": "Normann P. Nielsen",
```

```
"createdByUser": "bnp",
"modifiedOn": "2015-01-04T20:01:44.871+01:00",
"modifiedBy": "Normann P. Nielsen",
"modifiedByUser": "bnp",
"lockedBy": "",
"lockedByUser": "",
"size": "0",
"version": "1.0",
"contentUrl": "api/node/content/workspace/SpacesStore/ca079145-d204-4c5f-bd69-768e8401e1cd/Sjove%20Dyr",
"webdavUrl": "\/webdav\/Sites\/sjov\/documentLibrary\/Sjove%20Dyr",
"actionSet": "folder",
"tags": [],
"activeWorkflows": "",
"likes":
{
  "isLiked": false,
  "totalLikes": 0
},
"location":
{
  "repositoryId": "21ea3cc1-2140-476e-a323-d1f8b066a695",
  "site": "sjov",
  "siteTitle": "Sjov",
  "container": "documentLibrary",
  "path": "\/",
  "file": "Sjove Dyr",
  "parent":
  {
    "nodeRef": "workspace:\\\/\\\/SpacesStore\\\/dd01c075-9f85-43f3-b3c7-390d1ce67d67"
  }
},
"permissions":
{
  "inherited": true,
  "roles":
  [
    "ALLOWED;GROUP_site_sjov_SiteContributor;SiteContributor;INHERITED",
    "ALLOWED;GROUP_EVERYONE;ReadPermissions;INHERITED",
    "ALLOWED;GROUP_EVERYONE;SiteConsumer;INHERITED",
    "ALLOWED;GROUP_site_sjov_SiteCollaborator;SiteCollaborator;INHERITED",
    "ALLOWED;GROUP_site_sjov_SiteConsumer;SiteConsumer;INHERITED",
    "ALLOWED;GROUP_site_sjov_SiteManager;SiteManager;INHERITED"
  ],
  "userAccess":
  {
    "create": true,
    "edit": true,
    "delete": true,
    "cancel-checkout": false,
    "permissions": true
  }
},
"custom": {},
"actionLabels":
{
  },
{
  "nodeRef": "workspace://SpacesStore/1e0245a9-f69e-443d-a5fc-031af506b26e",
  "nodeType": "cm:folder",
  "type": "folder",
  "mimetype": "",
  "isFolder": true,
  "isLink": false,
  "fileName": "Tegneserieforsider",
  "displayName": "Tegneserieforsider",
  "status": "",
  "title": "",
  "description": "",
  "author": "",
  "createdOn": "2015-01-04T20:01:49.566+01:00",
```

```

"createdBy": "Normann P. Nielsen",
"createdByUser": "bnp",
"modifiedOn": "2015-01-04T20:01:49.566+01:00",
"modifiedBy": "Normann P. Nielsen",
"modifiedByUser": "bnp",
"lockedBy": "",
"lockedByUser": "",
"size": "0",
"version": "1.0",
"contentUrl": "api/node/content/workspace/SpacesStore/1e0245a9-f69e-443d-a5fc-031af506b26e
/Tegneserieforsider",
"webdavUrl": "\\webdav\\Sites\\sjov\\documentLibrary\\Tegneserieforsider",
"actionSet": "folder",
"tags": [],
"activeWorkflows": "",
"likes":
{
  "isLiked": false,
  "totalLikes": 0
},
"location":
{
  "repositoryId": "21ea3cc1-2140-476e-a323-d1f8b066a695",
  "site": "sjov",
  "siteTitle": "Sjov",
  "container": "documentLibrary",
  "path": "\\",
  "file": "Tegneserieforsider",
  "parent":
  {
    "nodeRef": "workspace:\\\\SpacesStore\\dd01c075-9f85-43f3-b3c7-390dlce67d67"
  }
},
"permissions":
{
  "inherited": true,
  "roles":
  [
    "ALLOWED;GROUP_site_sjov_SiteContributor;SiteContributor;INHERITED",
    "ALLOWED;GROUP_EVERYONE;ReadPermissions;INHERITED",
    "ALLOWED;GROUP_EVERYONE;SiteConsumer;INHERITED",
    "ALLOWED;GROUP_site_sjov_SiteCollaborator;SiteCollaborator;INHERITED",
    "ALLOWED;GROUP_site_sjov_SiteConsumer;SiteConsumer;INHERITED",
    "ALLOWED;GROUP_site_sjov_SiteManager;SiteManager;INHERITED"
  ],
  "userAccess":
  {
    "create": true,
    "edit": true,
    "delete": true,
    "cancel-checkout": false,
    "permissions": true
  }
},
"custom": {},
"actionLabels":
{
}
}

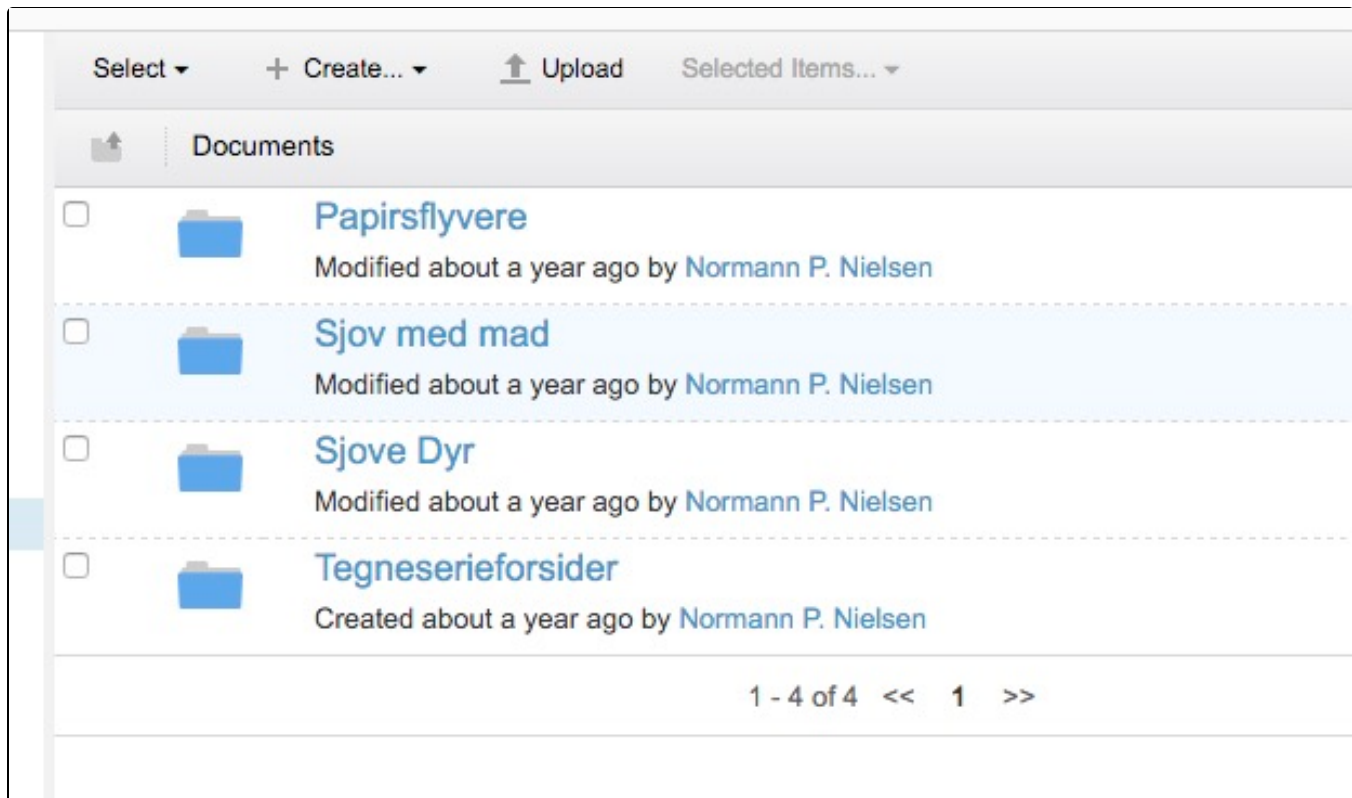
```

Each "contentURL" here is a folder:

```
curl -u username:password http://alfresco.mos-eisley.dk/alfresco/service/slideshow/doclib/doclist/folders/site/sjov/documentLibrary | grep contentUrl

"contentUrl": "api/node/content/workspace/SpacesStore/4746fb1d-8004-4000-9710-cc3c05aab5e7/Papirsflyvere",
"contentUrl": "api/node/content/workspace/SpacesStore/c7c14bde-69b6-4351-b41f-0016be053970/Sjov%20med%20mad",
"contentUrl": "api/node/content/workspace/SpacesStore/ca079145-d204-4c5f-bd69-768e8401e1cd/Sjove%20Dyr",
"contentUrl": "api/node/content/workspace/SpacesStore/1e0245a9-f69e-443d-a5fc-031af506b26e/Tegneserieforsider",
```

Which is fitting to the Gui view for the 4 folders:



## Get a list of Documents from a folder

The method is the same, here the folder "Tegneserieforsider"

```
curl -u username:password http://alfresco.mos-eisley.dk/alfresco/service/slideshow/doclib/doclist/folders/site/sjov/documentLibrary/Tegneserieforsider

"contentUrl": "api/node/content/workspace/SpacesStore/713d39d0-4f04-45f4-afd8-a44f1435fb04/Batman%20forsider",
"contentUrl": "api/node/content/workspace/SpacesStore/c81f6195-21a7-4114-837e-e4590d7ec4b8/Film%20Tegneserier",
"contentUrl": "api/node/content/workspace/SpacesStore/f9c86b6f-176b-4f14-b55c-d1b62cdcc944/Indiana%20Jones",
"contentUrl": "api/node/content/workspace/SpacesStore/9a4965b2-1a95-4410-bbf9-bcdec8ed714d/Jurassic%20Park%20And%20The%20Lost%20World",
"contentUrl": "api/node/content/workspace/SpacesStore/f8e9a26c-31c9-444d-9486-a2d5f89b743c/Nattens%20Ridder%20forsider",
"contentUrl": "api/node/content/workspace/SpacesStore/ea0c0413-1cb3-4793-8efc-992903e28640/Star%20Wars%201-20%20forsider",
"contentUrl": "api/node/content/workspace/SpacesStore/518bf3a9-3832-4753-8354-d1ec7e0ccb7f/Star%20Wars%20forsider",
"contentUrl": "api/node/content/workspace/SpacesStore/2d451550-795e-4860-800f-2527a7fe629e/Thriller",
"contentUrl": "api/node/content/workspace/SpacesStore/f5ecbf22-05e2-4789-8dbf-8319637ffc67/Vogterne%20forsider",
```



And one step further down to "Thriller"

```
curl -u username:password http://alfresco.mos-eisley.dk/alfresco/service/slideshow/doclib/doclist/folders/site/sjov/documentLibrary/Tegneserieforsider/Thriller | grep contentUrl
"contentUrl": "api/node/content/workspace/SpacesStore/91743fb5-c967-41dd-8d90-1883922fa21c/Thriller%201.jpg",
"contentUrl": "api/node/content/workspace/SpacesStore/7e4f8a49-2446-436b-a6b0-874a2d39dea8/Thriller%2010.jpg",
"contentUrl": "api/node/content/workspace/SpacesStore/d7f4258e-b9f6-43de-a09f-debf6750cc93/Thriller%202.jpg",
"contentUrl": "api/node/content/workspace/SpacesStore/92ab41a1-3f32-4ca7-82b8-d19ad1a0fbb8/Thriller%203.jpg",
"contentUrl": "api/node/content/workspace/SpacesStore/d21501e0-37c7-4feb-8d46-547940b64794/Thriller%204.jpg",
"contentUrl": "api/node/content/workspace/SpacesStore/05f63751-61b0-4b05-aead-0ca883f8a786/Thriller%205.jpg",
"contentUrl": "api/node/content/workspace/SpacesStore/afe3169d-467d-4c0f-a88f-39b9f55af7d7/Thriller%206.jpg",
"contentUrl": "api/node/content/workspace/SpacesStore/8ab811dc-8610-49b8-ae6f-41e28b438f8f/Thriller%207.jpg",
"contentUrl": "api/node/content/workspace/SpacesStore/133301aa-d775-42d1-8381-5baa984e644d/Thriller%208.jpg",
"contentUrl": "api/node/content/workspace/SpacesStore/1d5a60eb-fa33-46bd-894f-2573a03d0ddd/Thriller%209.jpg",
```

## Getting Content out



This is Work in progress, not optimal yet...(but it does work)

```
curl -u username:password http://alfresco.mos-eisley.dk/alfresco/service/slideshow/node/content/workspace/SpacesStore/afe3169d-467d-4c0f-a88f-39b9f55af7d7/Thriller%206.jpg?a=true > Thriller%206.jpg
```