

UI Plugins

Extending oVirt Web Admin

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About the speaker



- oVirt UI maintainer
 - Web Admin
 - User Portal
- Deals with front-end application architecture
- Leads UI Plugins feature development

Topics covered in this session



- Feature overview
- Plugin design concepts
- What's currently possible
- Feature status & roadmap

Hackathon incoming



- Get your hands dirty tomorrow
- Make sure to have working oVirt environment
- oVirt Engine + oVirt Node = oVirt Live Image

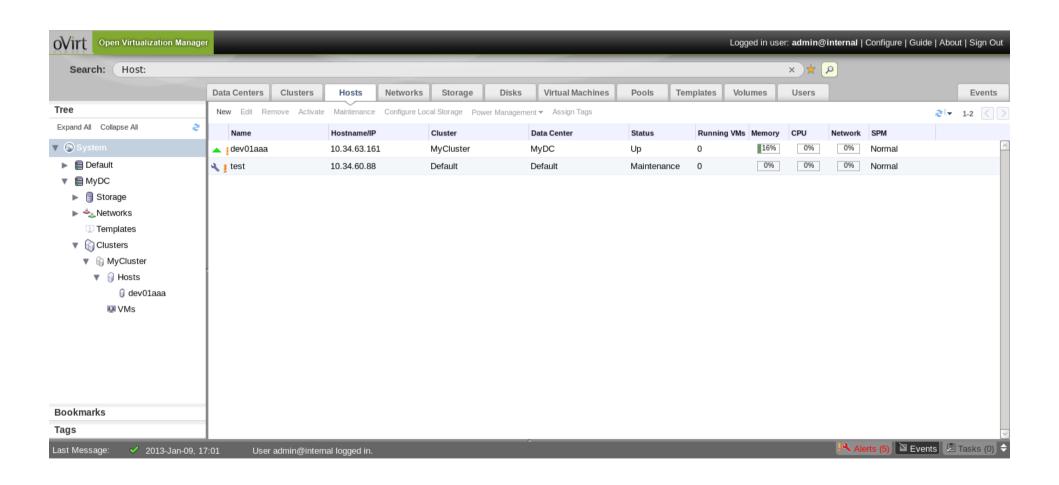


Feature overview

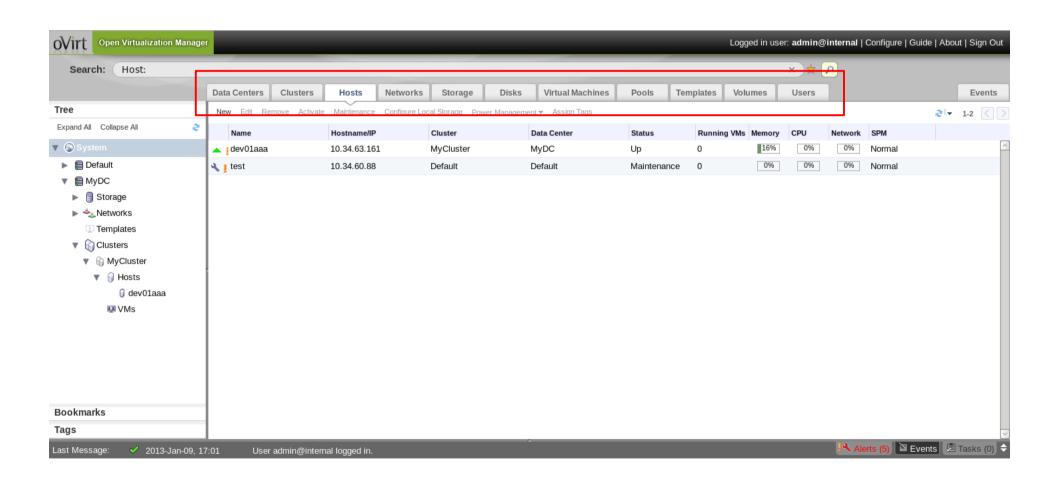


- Extend oVirt Web Admin user interface
- Plugins can be packaged and distributed for use with oVirt Engine
- Included in oVirt 3.2 release
- Updates and announcements on engine-devel

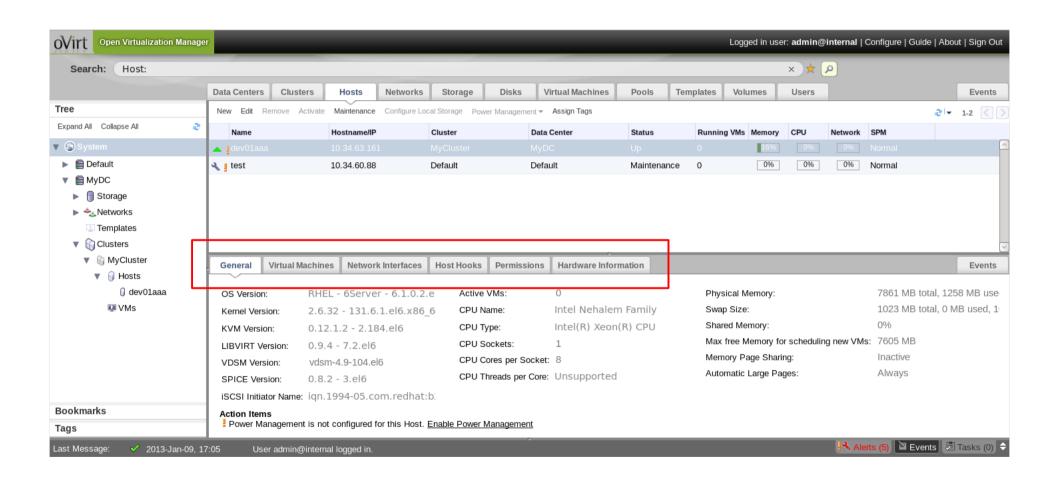




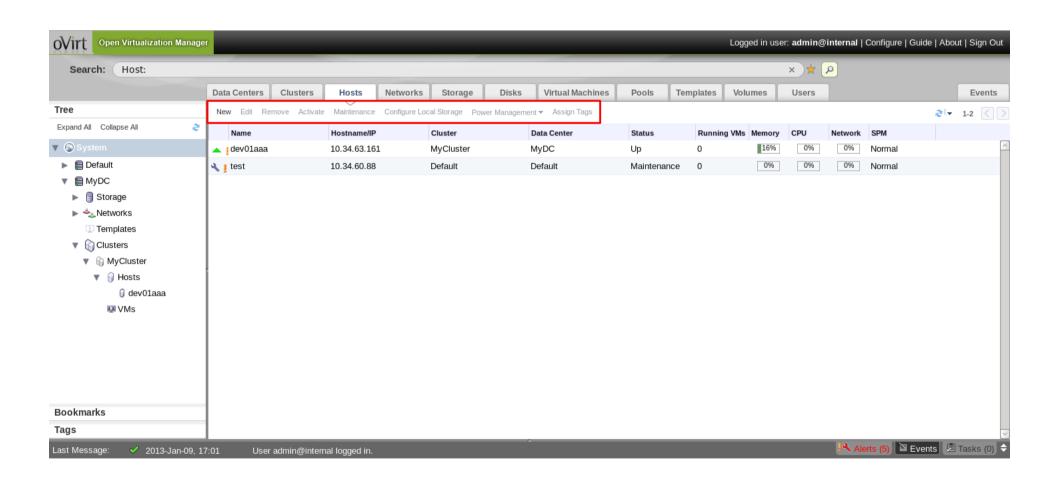




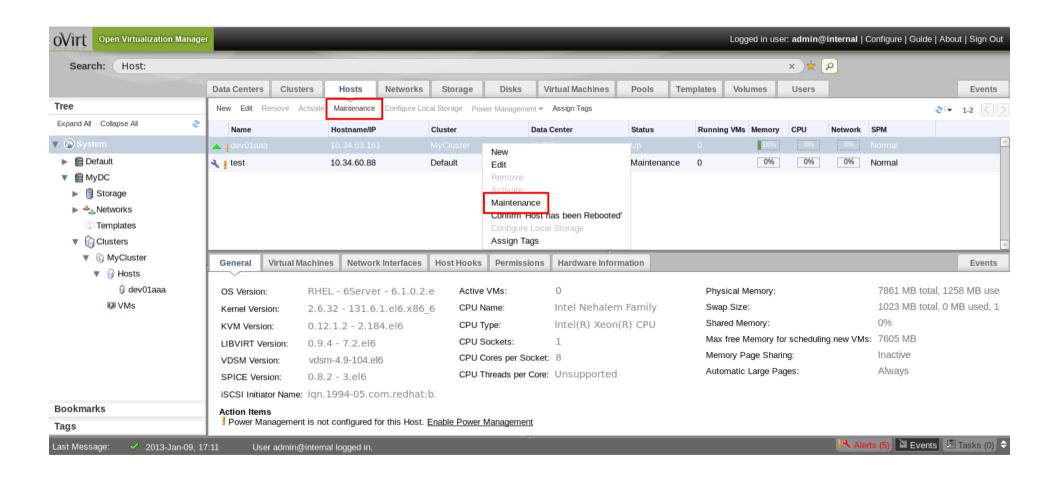












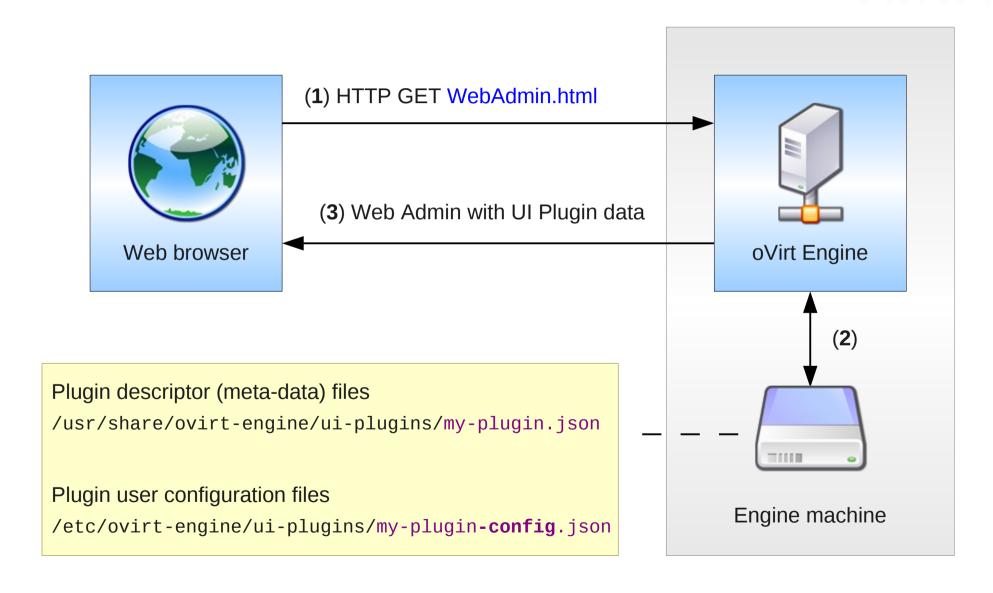
Plugin design concepts



- Plugins integrate with Web Admin on client using JavaScript language
- Simple and flexible plugin infrastructure
 - Web Admin exposes plugin API
 - Plugins consume the API
 - Web Admin calls plugins at key events during Web Admin runtime

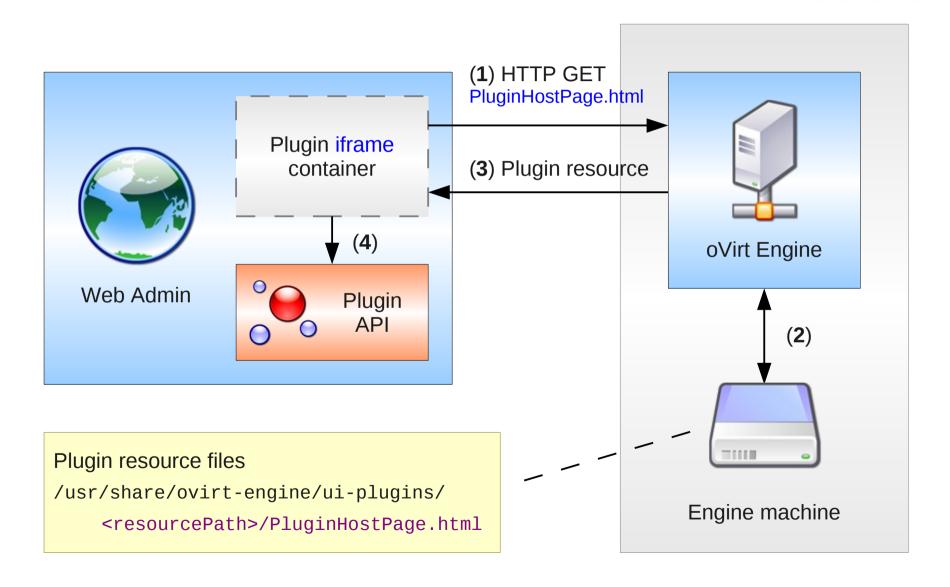
Discovering plugins





Loading plugins





Writing plugins



```
<!DOCTYPE html>
<html>
<head>
    <!-- Fetch additional resources if necessary -->
    <script type="text/javascript" src="jquery-min.js"></script>
    <!-- Actual plugin code -->
    <script>
    </script>
</head>
<body> <!-- HTML body is intentionally empty --> </body>
</html>
```

Writing plugins



```
<!DOCTYPF html>
<html>
<head>
    <!-- Fetch additional resources if necessary -->
    <script type="text/javascript" src="jquery-min.js"></script>
    <!-- Actual plugin code -->
    <script>
        // Access plugin API from iframe context
        var api = parent.pluginApi('myPlugin');
        // Register plugin event handler functions
        api.register({
            UiInit: function() {
                api.addMainTab('Foo Tab', 'foo-tab', 'http://foo.com/');
        });
        // Tell plugin infrastructure that we are ready
        api.ready();
    </script>
</head>
<body> <!-- HTML body is intentionally empty --> </body>
</html>
```

What's currently possible (API)



- Add custom {main|sub} tab
- Control custom {main|sub} tab properties
- Add custom main tab action button
- Show custom dialog

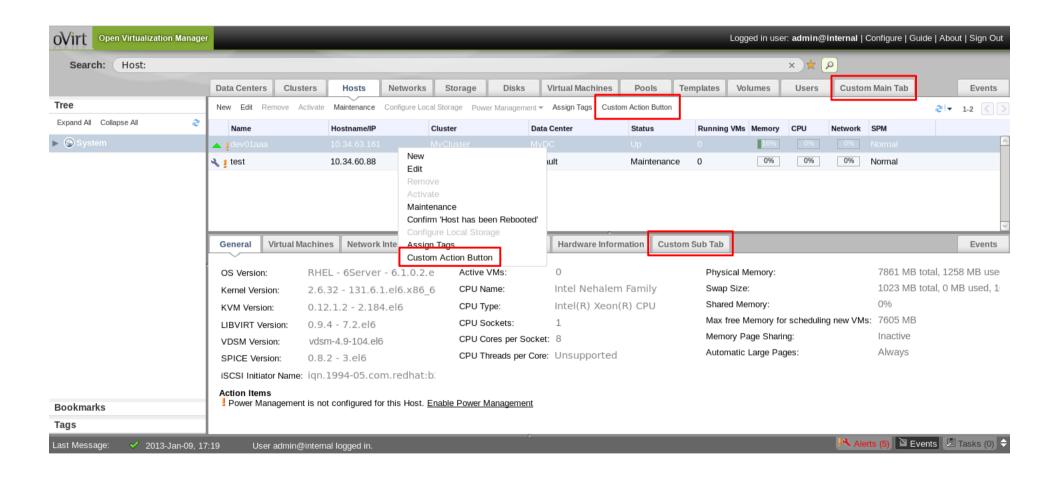
What's currently possible (events)



- User login and logout
- oVirt Engine REST API session acquired
- Main tab {entity} selection change

What's currently possible





Feature status & roadmap



- Included in oVirt 3.2 release
- Complete infrastructure-wise
- More plugin features to come
 - Custom dialogs in Web Admin UI style
 - Form and table based custom {main|sub} tabs
 - Pass proper REST API like entities to plugins
 - Review and manage plugins in Web Admin UI

Useful links



- http://www.ovirt.org/wiki/Features/UIPlugins
- git://gerrit.ovirt.org/samples-uiplugins
- http://lists.ovirt.org/mailman/listinfo/engine-devel



Thank you!

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