Agenda

- What is OpenEdge Management?
- OpenEdge Management Overview
- OpenEdge Management Journey
- What Is New In OpenEdge Management 11.7?
- Q&A
What is OpenEdge Management?
What is OpenEdge Management?

A System Management Center that provides Visibility, Analysis, and Proactive Monitoring of Critical Business Applications.
OpenEdge Management Overview

OpenEdge Management

OpenEdge Management Web Console

Alerts

WAN

Site A - OE 11.5 AIX

Site B - OE 11.6 Solaris

Site C - OE 11.7 Linux
OpenEdge Management – Monitored Resources

OpenEdge Resources
- AppServer
- Database
- PASOE
- WebSpeed
- DataServers
- NameServer
- OE WebServer
- AIA
- WSA

System Resources
- CPU
- Memory
- Disk
- File System
- File
- Log File
- Batch Program

Network Resources
- HTTP
- TCP
- UDP
- ICMP
Resource Creation:
- Can create resources on local & remote machines

Resource Configuration:
- Can configure resource properties

![Resource Configuration Interface]

**General**
- Auto start:
- Port number:
  - 3090
- Working directory:
  - @{WorkPath}
- Operating Mode:
  - State-reset
- Enable NetBIOS:
  - ✔️
Resource Management:

- Can start/stop resource(s) in local and remote machines

### Resources / oe1xdev09

<table>
<thead>
<tr>
<th>Resource</th>
<th>Type</th>
<th>Status</th>
<th>Alerts</th>
</tr>
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<tbody>
<tr>
<td>AdminServer (1 Item)</td>
<td>AdminServer</td>
<td>Online</td>
<td></td>
</tr>
<tr>
<td>w7x86</td>
<td>AdminServer</td>
<td>Online</td>
<td></td>
</tr>
<tr>
<td>AppServer (10 Items)</td>
<td>AppServer</td>
<td>Passed</td>
<td></td>
</tr>
<tr>
<td></td>
<td>AppServer</td>
<td>Not Runni...</td>
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<td>AppServer</td>
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<td>Open: 1 Unseen: 1</td>
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<tr>
<td>w7x86.broker1</td>
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</tr>
<tr>
<td>oe1xdev09.restbroker1</td>
<td>AppServer</td>
<td>Not Runni...</td>
<td></td>
</tr>
</tbody>
</table>

### Resource Summary

- **AdminServer:** w7x86
- **Host:** w7x86
- **Broker:** Not Running
- **Operating mode:** State-reset
- **Should register with NameServer:** True
- **Broker statistics available:** True
- **Servers available:** N/A

### Alerts

- **AS_BrokerAbnormalShutdown**
  - Date: Nov 7, 2017 4:51:28 AM
Rules:

- Evaluate a limit or a condition
- Fire alerts if limit is exceeded or a condition is met
- Predefined and available for each resource
- Can be customized as per your monitoring needs
Alerts:

- Fire whenever a rule limit is exceeded or a condition is met
- Appear on: Resource, Alert grid and Dashboard pages
- Can send to email
- Can run any job, add to a log, and send SNMP Traps
**Jobs:**

- Jobs are commands with parameters
- Can be run as an action when an alert is fired
- Predefined templates are available
- Can be scheduled or run on demand
Reports:

- By default all monitored resources are trended
  - Saved to Fathom Database (an OpenEdge database)
- Templates are included
- Can be generated when ABL code is executed
- Allow you to review the past to plan the future
- Can be scheduled or run on demand
Database Administration Console

**Manage Database Connection**
- Create/edit/delete database connections

**Manage Database Features**
- View feature enablement status
- Enable features

**Security Configuration**
- Configure users, domains and authentication

**Storage Management**
- Supports Multi-Tenancy
- Supports Table Partitioning
- Supports Change Data Capture

**Data Administration**
- Load data definitions
- Dump and load table contents
- Dump and load group contents
- Edit and Export Sequence
OpenEdge Management Journey
OpenEdge Management Journey – 11.x releases

- 11.0
  - Multi-Tenancy Support
  - Resource grid improvements
  - Replaced PsePro with OriendDB

- 11.1
  - Support for remote jobs
  - Remote Management Upgraded
  - Enhanced DB Authentication
  - Replaced SonicMQ with ActiveMQ for remote administration
  - Log file viewer and monitor improvements
  - CSRF Tags for web pages

- 11.2
  - Navigational Improvements
  - REST Adapter Support

- 11.3
  - Table Partition Support
  - Replaced JSSE based security model with Shiro
  - Session Timeouts

- 11.4
  - Multi-Tenancy Support
  - Support for remote jobs
  - Navigational Improvements
  - Remote Management Upgraded
  - Enhanced DB Authentication
  - REST Adapter Support
  - Table Partition Support
  - Replaced JSSE based security model with Shiro
  - Session Timeouts

- 11.5
  - Modernization using KendoUI
  - PASOE Transport Properties Configuration
  - PASOE Transport Metrics
  - Database Summary View
  - PASOE Support
  - Log file viewer and monitor improvements
  - CSRF Tags for web pages
  - SNMPv3 Support

- 11.6
  - CDC Support
  - 3rd Party webapp support
  - OEAG based logins
  - Batch Program
  - Improved REST API coverage
  - New PASOE Rules

- 11.7
  - Modernization using KendoUI
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What is new in OpenEdge Management 11.7?
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- Change Data Capture Support
- 3rd Party Web Application Support
- OEAG Based Login Support
- Batch Program Monitoring
- New PASOE Rules
- Enhanced REST API Coverage
Change Data Capture Support
Change Data Capture Support in OpenEdge Management

- **Enable CDC**
  - Enable CDC on online database
  - Enable CDC on offline database

- **Policy Governance**
  - Create policies of different levels & states
  - List CDC policies
  - Delete CDC policies
  - Policy state management

- **Dump & Load**
  - Dump CDC policies
  - Load CDC policies

- **Generate Policy Program**
  - Generate ABL code for policy
3rd Party Web Applications Support

- OpenEdge Management supports custom third-party Web applications
- Extension points in OpenEdge Management allow third party web applications to contribute to the OpenEdge Management user interface
- Extension points are available for adding:
  - Additional menu entries
  - Links in footers
  - Configuration pages
  - Landing pages
3rd Party Web Applications Support
3rd Party Web Applications Support

Sample Web Application Example Page

This is a place holder configuration page for the sample web application.
OpenEdge Authentication Gateway (OEAG) Based Logins
OpenEdge Authentication Gateway (OEAG) Based Logins

- Prior to 11.7, OpenEdge Management Authentication is based on a property file in the installation directory.
- New authentication – OEAG is added to authenticate more securely and also supports various third party authentication sources such as
  - LDAP
  - Active Directory
  - OSlocal
  - Property file
OpenEdge Authentication Gateway (OEAG) Based Logins

Admin interacts with OpenEdge Management, which then communicates with the OpenEdge Authentication Gateway Server. The Gateway Server facilitates communication with STS and manages 3rd Party Authentication services such as LDAP and Active Directory.
OpenEdge Management Authentication Configuration

- One authentication can be selected:
  - Built in authentication (default)
  - OEAG based authentication
    - No control to change passwords using OEM
    - No control to create operators by admins using OEM
Batch Process Management and Monitoring
Batch Program Management and Monitoring

- Using OpenEdge Management we can manage and monitor batch programs
- Start-up
  - Can retry the start-up in multiple attempts
  - On start up failure
    - Can fire alert
    - Can perform action
    - Can restart program
- Monitoring
  - Can be monitored batch program using
    - Status script
    - PID File
    - Exit Code
- Shutdown
  - Using script
  - Terminate
New Rules for Progress Application Server (PASOE) Monitoring
New Rules to Monitor Progress Application Server

- Agents CPU
- Agents Memory
- Agents Utilization
- Sessions Utilization
- Tomcat CPU
- Tomcat Memory
- Tomcat Virtual Memory
Enhanced REST API Support
REST API Coverage

Creating AppServer - UI

Creating AppServer - REST API

POST
http://localhost:9090/oem/containers/localhost/appserver

Request Body:

```
{
    "name" : "AppServer1",
    "description" : "sample desc"
}
```
All OpenEdge Management REST APIs can be seen using

http://hostname:port/oem/api
Why should you be on 11.7?

- Modern UI
- Enhanced Security
- Extensive REST APIs
- CDC Policy Governance
- Custom Web Application Support
- More PAS Rules
- Batch Process Monitoring Support
Q&A

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