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IBM Content Manager Content Platform Engine

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Product Implementation Training (PIT)

Content Platform Engine 5.2.1

Security Enhancements



Introduction

- Course Overview
 - Security enhancements in 5.2.1
- Target Audience
 - CPE L3 and Support Teams
- Suggested Prerequisites
 - Knowledge of CPE and WebSphere
- Version Release Date November, 2014

Course Objectives

After this course you will be able to:

- Explain the security enhancements in CPE 5.2.1
- Use security domains feature in CPE
- Use security principle valued properties

Course Roadmap

- Security enhancements in 5.2.1
- ➔ WebSphere Security Domains
- Security principle valued properties

Security domain support

- The WebSphere® Security Domains (WSD) provide the flexibility to use different security configurations for CPE in WebSphere Application Server environment.
- By default, all administrative and user applications in WebSphere Application Server use the same global security configuration.
- With WAS security domains, you can create additional security configurations for CPE; for example, you can specify a different LDAP than other applications.
- The same security domain and configuration must be used by all CPE servers in a P8 domain, as well as all WebSphere based client applications.
- This feature is only available in WebSphere.

Deploying to Security domain using CMUI

- From CMUI Edit Application Server Properties
- The Login Modules, LDAP and Deploy task will all use the security domain selected.
- Otherwise all of them use the default i.e., Global security

The screenshot shows the 'Edit Application Server Properties' dialog box for a WebSphere Application Server. The title bar reads 'Edit Application Server Properties'. Below the title bar, it says 'Set Properties for WebSphere Application Server' and 'Provide values for the required profile environment properties.' The dialog contains several fields for configuration:

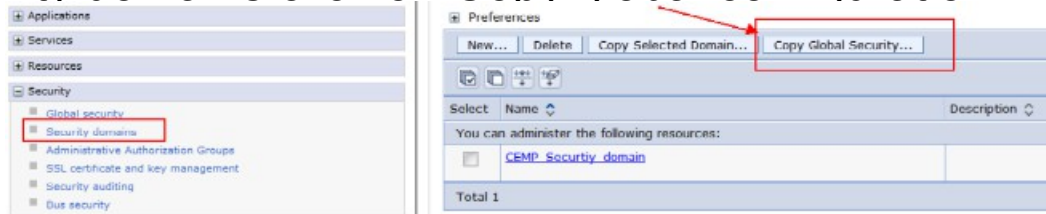
- Application server version: 8.5
- Application server installation directory: C:\Program Files (x86)\IBM\WebSp\ Browse...
- Application server profile directory: C:\Program Files (x86)\IBM\WebSp\ Browse...
- Application server administrator user name: OSAdmin
- Application server administrator password: [masked] Confirm: [masked]
- Application server SOAP port: 8880
- Application server host: ocdv0101
- Application server cell: ocdv0101Node01Cell
- Application server transaction timeout: 1200
- ☐ Use SSL certificates for server communication
- Security Domain: default** (highlighted with a red box)
- Test Connection

* denotes a required field

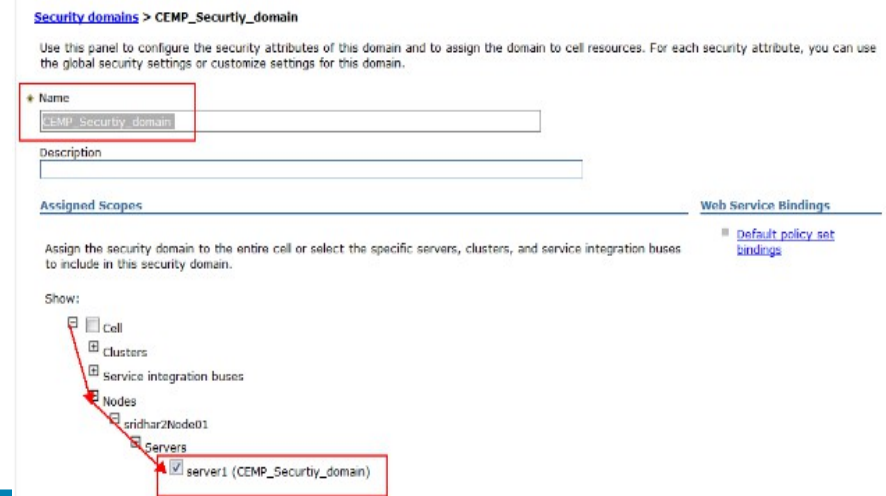
Buttons: Finish, Cancel

Security Domain creation in WAS

- Configure the CE server with Global security with Standalone LDAP registry. And make sure the CE server is functioning properly.
- Under Security domains click on Copy global configuration



- Name the security domain as “CEMP_Securtiy_domain”
- Select the scope Cell->Nodes->sridhar2Node01->servers->server1 (expand until you find server1)
- Save the security domain configuration



Demo of Security Domain

Course Roadmap

- Security enhancements in 5.2.1
- WebSphere Security Domains
- ➔ Security principal valued properties

Security Principal-valued properties

- Currently object-valued properties must have a required class that is either a GCD class or a repository class.
- An Object valued property (OVP) with a required class of SecurityPrincipal or User or Group is now supported in 5.2.1.
- OVP with a required class of SecurityPrincipal or User or Group is useful to assign an object (such as a Task) to a user or group and use directly in queries to locate such objects by assignee.

Security Principal-valued properties

- *PropertyDefinitionObject.set_RequiredClassId* can take an Id of *SecurityPrincipal* subclass (includes *User* and *Group* classes).
- *PropertyDefinitionObject.get_RequiredClassId* can return an Id of *SecurityPrincipal* subclass (includes *User* and *Group* classes).
- In queries it can be used like
 - *SELECT Id FROM <<SPVP Class>> WHERE <SPVP Req'd class property> = SecurityPrincipal(" + currentUser.get_Id() + ")*
 - *SELECT Id FROM <<SPVP Class>> WHERE <SPVP Req'd class property> = CurrentUser()*

Course Summary

You have completed this course and can:

- Explain the security enhancements in CPE 5.2.1
- Use security domains feature in CPE
- Use security principle valued properties

Product Help/Documentation/Resources

P8 5.2.1 Information Center (available October 31st)

http://www.ibm.com/support/knowledgecenter/SSNW2F_5.2.1/

WebSphere Security Domains

http://www.ibm.com/support/knowledgecenter/SSNW2F_5.2.1/com.ibm.p8.planprepare

RequiredClassId Property

http://www.ibm.com/support/knowledgecenter/api/content/SSNW2F_5.2.1/com.ibm.p8.

Contacts

- Subject Matter Experts (SME)/Area of Expertise:
Richard Robinson, Sridhar Satuloori (security enhancements in 521)
- Product Marketing Manager: Robb Finn
- Product Manager: Steve Hussey
- Support: Denise Halweg / Floyd Rose
- Development: Susan Chen/Joe Raby
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