

# Custom scripts samples

Custom scripts samples

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# Sample scripts

Note that Soffid supports different scripting languages, you can configure it in the [Smart engine settings screen](#).

Additionally, in the initial configuration of the container, we can configure the SOFFID\_TRUSTED\_SCRIPTS environment variable to allow the use of insecure classes. You can find this information visiting [the Installing IAM Console page](#).

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# Agent scripts

## User full name

```
return firstName + lastName;
```

## Create mainDomain if it doesn't exit

```
String mailDomain = null;
if (email != void && email != null && email.contains("@")) {
    String[] mailTokens = email.split("@");
    mailDomain = mailTokens[1];
}
com.soffid.iam.service.MailListsService service =
com.soffid.iam.ServiceLocator.instance().getMailListsService();
com.soffid.iam.api.MailDomain domain = service.findMailDomainByName(mailDomain);
if (domain==null) {
    domain = new com.soffid.iam.api.MailDomain();
    domain.setCode(mailDomain);
    domain.setDescription(mailDomain);
    domain.setObsolete(new Boolean(false));
    domain = service.create(domain);
}
```

```
return mailDomain;
```

## Recover active agents

```
llistaAgents = serviceLocator.getDispatcherService().findAllActiveDispatchers();
for(agent: llistaAgents) {
    out.println("Nom: " + agent.name);
    out.println("Class Name: " + agent.className + "\n");
}
```

## Show by a user the agents that have associates

```
llistaUsuaris = serviceLocator.getUserService().findUserByJsonQuery("userName eq \"Ivan\" ");
for(usuari: llistaUsuaris) {
    out.println("Usuario: " + usuari.userName);

    llistacuentas =
serviceLocator.getAccountService().findAccountByJsonQuery("users.user.userName eq
\""+usuari.userName+"\" ");

    for(cuenta: llistacuentas){
        out.print("    Cuenta : " + cuenta.name);
        out.println("    ID: " + cuenta.id);
        llistaRole = serviceLocator.getApplicationService().findRoleAccountByAccount(cuenta.id);

        for(role: llistaRole){
            out.print("        Role: " + role.roleName + "\n");
            out.println("        Aplicacion: " + role.informationSystemName);
            out.println("        Agente: " + role.system);
        }
    }
}
```

---

# Identity scripts

## Recover a user for userName

```
u = serviceLocator.getUserService().findUserByUserName("Ivan");
out.print("Usuari: " + u.firstName);
```

## Recover a users from a JQuery

```
llistaUsuari = serviceLocator.getUserService().findUserByJsonQuery("firstName sw \"A\" AND
lastName sw \"V\" ");
for (usuari: llistaUsuari){
    out.println("Usuari: " + usuari.userName);
}
```

## Print some attributes

```
u = serviceLocator.getUserService().findUserByUserName("02");
out.println("UserName: " + u.userName);
out.println("Name: " + u.firstName);
out.println("LastName: " + u.lastName);
```

## Print by user the email

```
u = serviceLocator.getUserService().findUserByUserName("02");
out.print("Email: " + u.shortName + "@" + u.mailDomain);
```

## Print by user some additional data

```
llistaDadesUsuari = serviceLocator.getUserService().findUserDataByUserName("18008366X");
for(dadaUsuari: llistaDadesUsuari){
    out.println("Atributs " + dadaUsuari.attribute + " = " + dadaUsuari.value);
}
```

## Create a new identity

```
try {
    newUser = new com.soffid.iam.api.User();
    //Instanciar un nuevo objeto de tipo usuario

    newUser.userName = "IvanVis"; //Faltan 6 parametres
    newUser.firstName = "Ivannn";
    newUser.lastName = "Visarttt";
    newUser.userType = "I";
```

```
newUser.profileServer = "null" ;
newUser.homeServer = "null" ;
newUser.mailServer = "null" ;
newUser.primaryGroup = "world";
newUser.active = true;

serviceLocator.getUserService().create(newUser);
}catch(Exception e){
    e.printStackTrace(out);
}
```

## Update an identity

```
u = serviceLocator.getUserService().findUserByUserName("Ivan");
u.firstName = "Ivaan1";
u = serviceLocator.getUserService().update(u);
out.print(u.firstName);
out.print(u.userName);
```

## Delete an identity

```
try {
    u = serviceLocator.getUserService().findUserByUserName("02");
    serviceLocator.getUserService().delete(u);
} catch(Exception e) {
    e.printStackTrace(out);
}
```

---

# Account scripts

## Recover accounts of user

```
la = serviceLocator.getAccountService().findAccountByJsonQuery("users.user.userName eq \"02\"");
for(a: la) {
    out.println("Cuenta: " + a.name);
    out.println("ID: " + a.id);
}
```

```
out.println("System: " + a.system + "\n");  
}
```

## Remove attribute values of a metadata

```
public void removeUnAttributeValues(String attribute, String system) {  
    la = serviceLocator.getAccountService().findAccountByJsonQuery("system eq \""+system+"\"");  
    for (a : la) {  
        laa = serviceLocator.getAccountService().getAccountAttributes(a);  
        for (aa : laa) {  
            if (aa.attribute.equals(attribute)) {  
                if (aa.value!=null) {  
                    out.print("accountName: "+accountName+", attribute.value: "+aa.value);  
                    serviceLocator.getAccountService().removeAccountAttribute(aa);  
                    out.println(" ---> removed");  
                }  
            }  
        }  
    }  
}  
removeUnAttributeValues("manager", "OSCM");
```

## Role scripts

### Recover roles of a user

```
user = serviceLocator.getUserService().findUserByUserName("Ivan");  
out.println("Usuari: " + user.userName + "\n");  
rolsUser = serviceLocator.getUserService().findUserRolesHierachyByUserName(user.userName);  
for(listrRolsUser:rolsUser){  
    out.println("Nombre: " + listrRolsUser.name);  
    out.println("Descripcion: " + listrRolsUser.description);  
    out.println();  
}
```

### Print the associated roles for each account

```

llistaUsuaris = serviceLocator.getUserService().findUserByJsonQuery("userName eq \"Ivan\" ");
for(usuari: llistaUsuaris){

    llistacuentas =
serviceLocator.getAccountService().findAccountByJsonQuery("users.user.userName eq
\""+usuari.userName+"\" ");

    for(cuenta: llistacuentas){
        out.print("    Cuenta : " + cuenta.name);
        llistaRole = serviceLocator.getApplicationService().findRoleAccountByAccount(cuenta.id);

        for(role: llistaRole){
            out.print("        Role: " + role.roleName + "\n");
        }
    }
}

```

Print for an account the roles and applications for each of them

```

llistaUsuaris = serviceLocator.getUserService().findUserByJsonQuery("userName eq \"Ivan\" ");
for(usuari: llistaUsuaris){

    llistacuentas =
serviceLocator.getAccountService().findAccountByJsonQuery("users.user.userName eq
\""+usuari.userName+"\" ");

    for(cuenta: llistacuentas){
        out.print("    Cuenta : " + cuenta.name);
        out.println("    ID: " + cuenta.id);
        llistaRole = serviceLocator.getApplicationService().findRoleAccountByAccount(cuenta.id);

        for(role: llistaRole){
            out.print("        Role: " + role.roleName + "\n");
            out.println("        Aplicacion: " + role.informationSystemName);
        }
    }
}

```



## Print the roles associated with each account

```
usuCuenta = serviceLocator.getUserService().findUserByJsonQuery("");
for(listaUsuCuenta: usuCuenta) {

    out.println("Usuario: " + listaUsuCuenta.userName);
    out.println("Nombre: " + listaUsuCuenta.firstName);

    rolsUser =
serviceLocator.getUserService().findUserRolesHierachyByUserName( listaUsuCuenta.userName);

    for(listaRolsUser: rolsUser){
        out.println("Nombre del Rol: " + listaRolsUser.name);
        out.println("Descripcion: " + listaRolsUser.description);
        out.println();
    }
}
}
```

## Create a new role

```
try {
    newRol = new com.soffid.iam.api.Role();
    newRol.name = "Rol_New_Script";
    newRol.description = "Rol Script";
    newRol.informationSystemName = "SOFFID";
    newRol.system = "APLICACION01";
    serviceLocator.getApplicationService().create(newRol);

} catch(Exception e){
    e.printStackTrace(out);
}
```

## Update a role

```
editRole = serviceLocator.getApplicationService().findRoleByJsonQuery("name eq \"Rol editado  
por script\" and informationSystemName eq \"APLICACION01\" ");
for (role: editRole){

    out.println(role.name);
}
```

```
role.name = "ROL01";

role = serviceLocator.getApplicationService().update(role);
out.print(role.name);
}
```

## Delete a role

```
try {
    editRole = serviceLocator.getApplicationService().findRoleById(232734);
    serviceLocator.getApplicationService().delete(editRole);
} catch (Exception e) {
    e.printStackTrace(out);
}
```

## List the roles of an application

```
list = serviceLocator.getApplicationService().findRoleByJsonQuery("informationSystemName eq\n\"S0FFID\"");
for (role : list) {
    out.println(role.name);
}
```

# Event Sample scripts

On grant permission: Update a user attribute when assigning a specific permission

```
if (grant.roleName.equals("RS002")) {  
    user = serviceLocator.getUserService().findUserByUserName(grant.user);  
    if (user != null) {  
        attributes = serviceLocator.getUserService().findUserAttributes(user.userName);  
        if (attributes == null) {  
            attributes = new HashMap();  
        }  
        attributes.put("language", "Spanish");  
        serviceLocator.getUserService().updateUserAttributes(user.userName, attributes);  
    }  
}
```