



#### Mark Roberts

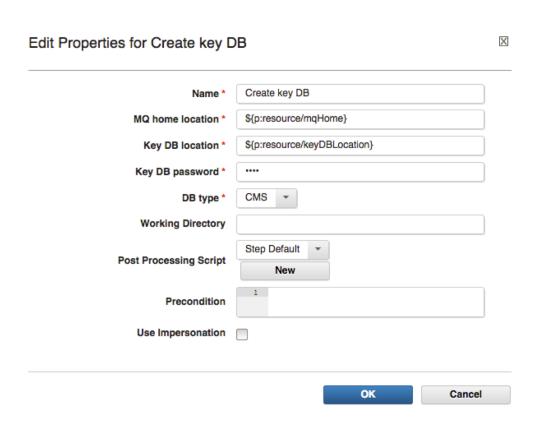
UrbanCode Technical Specialist

# Functions available in the plugin

- Create a key database
- Backup a key database
- List certificates in the key database
- Add certificates to the key database
- Create a certificate signing request (CSR) from the key database
- Receive a certificate into the key database

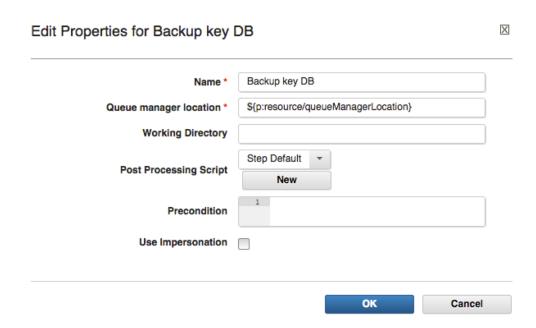
## Create a key database

- Create a new key database
- MQ Home location is used for access to MQ executables
  - Defined on a parent resource that specifices information about MQ
- The Key DB location is tored in the field indicated by Key DB location
  - Default is a resource property 'keyDBLocation'
- Key DB password is asecure property but a resource property should be used to define it
  - Past in the value \${p:resource/keyDBPassword}
- DB type is one of CMS, KDB, PKCS 12 or P12



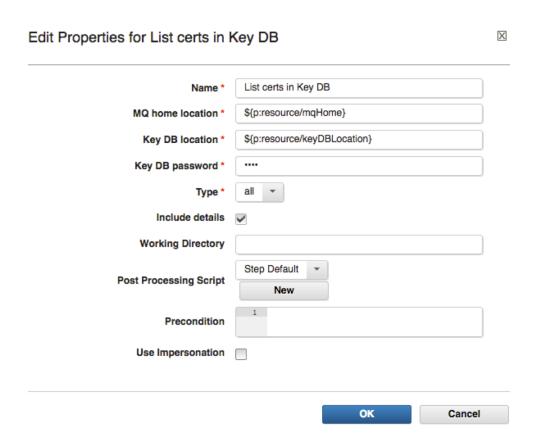
# Backup a key database

- Create a backup of the current key database files
- Current /ssl directory is backed up to /ssl.<date-string>
  - Date string format is dd-MMM-yyyy-HH-mm
- Queue manager location argument is the directory that holds the ssl directory to be backed up



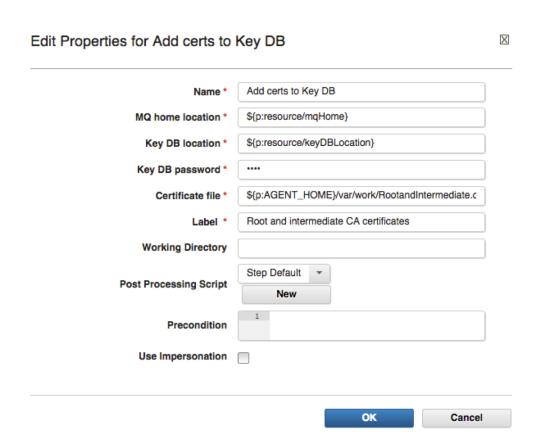
### List certificates in the key database

- Display the certificates in the key database
- MQ Home location is used for access to MQ executables
  - Defined on a parent resource that specifices information about MQ
- The Key DB location is tored in the field indicated by Key DB location
  - Default is a resource property 'keyDBLocation'
- Key DB password is asecure property but a resource property should be used to define it
  - Past in the value \${p:resource/keyDBPassword}
- Type select which certificates to display
  - All, personal or ca



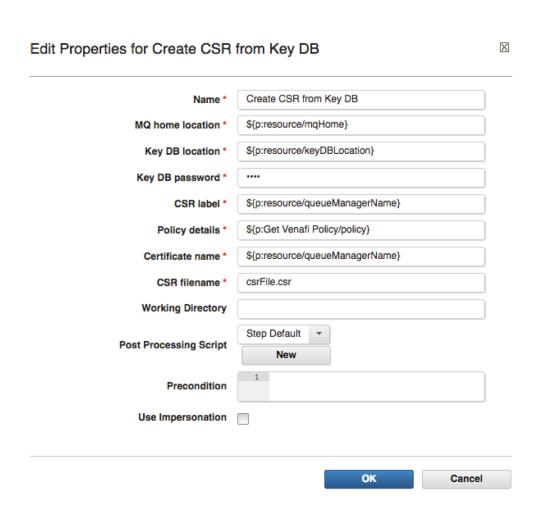
# Add certificates to the key database

- Add certificates to the key database
  - May come from a stored file containing root and intermediate certificates
  - May come from the result of a CSR request
- MQ Home location is used for access to MQ executables
  - Defined on a parent resource that specifices information about MQ
- The Key DB location is tored in the field indicated by Key DB location
  - Default is a resource property 'keyDBLocation'
- Key DB password is asecure property but a resource property should be used to define it
  - Past in the value \${p:resource/keyDBPassword}
- Certificate file
- Label to help the management of the certificates in the key store



# Create a certificate signing request (CSR) from the key database

- Create a CSR to be submitted to a certificate provider
- MQ Home location is used for access to MQ executables
  - Defined on a parent resource that specifices information about MQ
- The Key DB location is tored in the field indicated by Key DB location
  - Default is a resource property 'keyDBLocation'
- Key DB password is asecure property but a resource property should be used to define it
  - Past in the value \${p:resource/keyDBPassword}
- CSR label a label to describe the certificate
- Policy details JSON formatted policy data (see next slide)
- Certificate name
- CSR filename





#### Policy details :

- "name": "value" pairs comma separated for example :
- {"city":"Birmingham","state":"West Midlands","country":"UK","organization":"IBM UK Ltd","organizationalUnit":"Hybrid Cloud Division","keyAlgorithm":"RSA","keyBitStrength":"2048","managementType":"Monitoring","manualCSR":"ServiceGenerated","certificateAut hority":"\\VED\\Policy\\Certificate authorities\\MS CA","policyDN":"\\VED\\Policy\\DevOps\_Workshop"}

# Receive a certificate into the key database

- Add received certificate data into the keystore
- Note that they request for the certificates must have come from a CSR generated from the key store using the step 'Create a certificate signing request (CSR) from the key database'
- MQ Home location is used for access to MQ executables
  - Defined on a parent resource that specifices information about MQ
- The Key DB location is tored in the field indicated by Key DB location
  - Default is a resource property 'keyDBLocation'
- Key DB password is asecure property but a resource property should be used to define it
  - Past in the value \${p:resource/keyDBPassword}
- Certficate file containing the generated certificate

