apigee

Dealing with Secured Target Servers

1. Hard Code



- 1. Hard Code
- 2. Replace at Build Time



- Hard Code
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- 3. Node.js Vault



- Hard Code
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- 3. Node.js Vault
- 4. Encrypted Key Value Map



Hard Code

```
<AssignMessage name="Set-Credentials">
 <DisplayName>Set-Credentials
 <Properties/>
 <Set>
   <Headers>
     <Header name="Authorization">Basic Secret123==
   </Headers>
 </Set>
 <AssignVariable>
   <Name>username</Name>
   <Value>secretUser</Value>
 </AssignVariable>
 <AssignVariable>
   <Name>password</Name>
   <Value>secretPassword</Value>
 </AssignVariable>
 <IgnoreUnresolvedVariables>true</IgnoreUnresolvedVariables>
 <AssignTo createNew="false" transport="http" type="request"/>
</AssignMessage>
```



Build Time Replacement

```
<AssignMessage name="Set-Credentials">
  <DisplayName>Set-Credentials</DisplayName>
  <Properties/>
 <Set>
    <Headers>
      <Header name="Authorization">Replace Me</Header>
    </Headers>
 </Set>
 <AssignVariable>
    <Name>username</Name>
    <Value>replace_me</Value>
  </AssignVariable>
  <AssignVariable>
    <Name>password</Name>
    <Value>replace_me</Value>
  </AssignVariable>
  <IgnoreUnresolvedVariables>true</IgnoreUnresolvedVariables>
  <AssignTo createNew="false" transport="http" type="request"/>
</AssignMessage>
```



Build Time Replacement

```
"configurations":[
      "name": "test",
      "policies":[
          "name": "Set-Credentials.xml",
          "tokens":[
"xpath":"/AssignMessage/Set/Headers/Header[@name='Authorization']",
              "value": "Basic Secret123=="
              "xpath":"/AssignMessage/AssignVariable[Name='username']/Value",
              "value": "secretUser"
              "xpath":"/AssignMessage/AssignVariable[Name='password']/Value",
              "value": "secretPassword"
```



Build Time Replacement

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 <Properties/>
 <Set>
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      <Header name="Authorization">Basic Secret123==
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   <Name>username</Name>
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   <Name>password</Name>
    <Value>secretPassword</Value>
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 <AssignTo createNew="false" transport="http" type="request"/>
</AssignMessage>
```



Using Node.js Access Vault

Step 1: Build Vault Via API

```
curl https://api.enterprise.apigee.com/v1/o/{org}/vaults
  -H "Content-Type: application/json"
  -d '{"name": "vault1" }' -X POST
```



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  -H "Content-Type: application/json"
  -d '{"name": "vault1" }' -X POST
```

Step 2: Create the entries within the Vault Via API

```
curl
https://api.enterprise.apigee.com/v1/o/{org}/vaults/{vault}/ent
ries
  -H "Content-Type: application/json"
  -d '{"name": "username", "value": "secretUser" }' -X POST
```



Using Node.js Access Vault

Step 1: Build Vault Via API

```
curl https://api.enterprise.apigee.com/v1/o/{org}/vaults
  -H "Content-Type: application/json"
  -d '{"name": "vault1" }' -X POST
```

Step 2: Create the entries within the Vault Via API

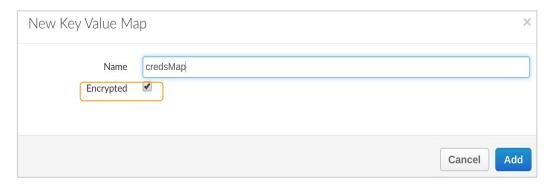
```
curl
https://api.enterprise.apigee.com/v1/o/{org}/vaults/{vault}/ent
ries
  -H "Content-Type: application/json"
  -d '{"name": "username", "value": "secretUser" }' -X POST
```

Step 3: Retrieve Data in Node.js App

```
var apigee = require('apigee-access');
  var orgVault = apigee.getVault(vault1, 'organization');
  orgVault.get('username', function(err, secretValue) {
    // use the secret value here
});
```



Using Key Value Map







Using Key Value Map

Step 2: Retrieve Data via KVM Policy

```
<KeyValueMapOperations name="getEncrypted"</pre>
mapIdentifier="credsMap">
   <Scope>environment</Scope>
   <Get assignTo="private.encryptedUsername"</pre>
index="1">
      <Key>
         <Parameter>username</Parameter>
      </Key>
   </Get>
   <Get assignTo="private.encryptedPassword"</pre>
index="1">
      <Key>
         <Parameter>password</Parameter>
      </Key>
   </Get>
</KeyValueMapOperations>
```



apigee Thank You