Cloud Management Platform / WAP Design  
Partial. Incomplete. Preview.

## Overview

CMP/WAP is a suite of software components which adds Azure VM management features to the WAP. There are two main components: the CMP worker service and the WAP extension. The WAP extension is further broken into two parts: the resource provider, and the WAP portal admin and tenant sites.  
  
Admin and tenant WAP users interact with the system through the admin and tenant sites which are seamlessly integrated with the WAP portal. The worker service carries out administrative operations with Azure and various other systems on behalf of requests from the WAP extension.

## Physical Architecture

 Physical Architecture: Express Configuration

 Physical Architecture: Enterprise Configuration

CMP Servers

|  |  |  |
| --- | --- | --- |
| Server | Function | Location |
| CMP Worker | CMP worker service | Domain joined on premises or Azure |
| CMP API | CMP web service | Public Azure |
| WAP | User portal website + resource provider | Domain joined on premises or Azure |
| CMP DB | CMP Database | Shares LAN with CMP Server |
| AFTS | Transfer migrating VHDs to Azure blobs | Each data center which hosts migration sources |
| AMP | Prepare on premises VMs for migration to Azure | Each data center which hosts migration sources |

Other Objects

|  |  |  |
| --- | --- | --- |
| Object | Functions | Location |
| MyCap | MyCapacity IIS + DB | On premises |
| Migration Sources | Hosts targeted to be migrated | On premises |
| Clouds | Target location for migrated hosts | Azure |
|  |  |  |

## Databases

## Configuration Files

### Worker Service

#### Schema

#### Description

#### Sample:

<?xml version="1.0" encoding="utf-8"?>

<configuration>

<configSections>

<section name="entityFramework" type="System.Data.Entity.Internal.ConfigFile.EntityFrameworkSection, EntityFramework, Version=6.0.0.0, Culture=neutral, PublicKeyToken=b77a5c561934e089" requirePermission="false"/>

<!-- For more information on Entity Framework configuration, visit http://go.microsoft.com/fwlink/?LinkID=237468 --></configSections>

<connectionStrings>

<!-- CMP Wap Local -->

<add name="CMPContext" connectionString="Data Source=CmpWap;Initial Catalog=CMP;Persist Security Info=True;User ID=sa;Password=123Mainau!;MultipleActiveResultSets=True"

providerName="System.Data.SqlClient" />

<add name="ValidationContext" connectionString="Data Source=x1wbwqfi4p.database.windows.net;Initial Catalog=ValidationUatDb;Persist Security Info=True;User

</connectionStrings>

<appSettings>

<add key="KryptoCert" value="LocalMachine,My,339C80283637D69D9D9F0F5FE00970D93CB0A148"/>

<add key="DomainJoinAccount" value="redmond,markwes,[KText]kdPXcqVzA9R3ZK3Z8kP8FcNQEaVz6GR5ptji8pEiD5TJRq/Vr7I7oX9lMlWJoMwEEE1msvtLJ8Fun2JrUDBgeQtjjz9j0Pj/vKqhqmsHDL4jG9L3YXzq2tu2qLS5uyAJdd5iD8RME0eGCV8TzjzqSUGC9P/t3cQa8DTx9EMxrrvJaSJWb3cbHNiFvP56jVKNnZHN9GE7lGv8ggKoQYOxI3J/gZUk6egxvPlSktURXZX6TlxeFJnPqEVJhNFUpFAa417W+dB5m1ERCC/psruhKs43XszSAIJHVVpyzDaVjZASDJxtLDFg8ikRzLpe9RcWwl4c2xFclgZdtF1SBg1sWQ==[/KText]"/>

<add key="ProcessVmsActive" value="T"/>

<add key="ClientSettingsProvider.ServiceUri" value=""/>

<add key="AUTOLOCALADMINUSERNAME" value="123User!!"/>

<add key="AUTOLOCALADMINPASSWORD" value="[KText]MpYWdBSk/LjqqZmFmZCls4fMVDJhHZC5TgJRqdUiSxI/oV1yq9SFi2q6bZvR0sxN83tCQn3Dxgja0IUvxkw1eXlgcFCaFOzwuTYhiAL9gNZXpLwW1QKuGkOFHVC5xopweUS3xdBFkOnR+JkUrXy4kU7gEKc9nhSM1KPOegQCFsEAfoQhbbjSYmq0eUxkcQIbTbKhWlBOGop9ny0N3XY/P5gP56hfPT0WdpwKLynUEYnSRTBMbigjnJ8+WZKzBzsyB1XSRJQZzkdXajY/EBgU3n1FD4MXH2X21wxZ7d9VCB2uCBGjWFIETHVtflVbBv7oNEBvM7IlmOw+BDsMPKFc/w==[/KText]"/>

<add key="AUTOSUBNETNAME" value="TenantSubnet"/>

<add key="DefaultStateTtlMinutes" value="120"/>

<add key="DefaultVmRebootDwellTimeMinutes" value="3"/>

<!-- CMP Wap -->

<add key="CMPContextPassword" value="[KText]aNVLpJUPQW0bosxnlW6tqzms1/Z3rylXz5sK+nXf6Jn7Bob9uF55FwIF4mjkdOGx2ZW0PQ8Mr1T87RabzI5vKrWFQFZ+4AXY+HR+jkRpLCVUjTiRE3Jxb8KNkibdc85NJIjJEKppXccNRS0K9kMlJ8RlyJPNaJOkaIobkZectcNNlSMEZZGk4ZP1Zy0CbJFxF6l7sAFQHdy6NgNEEm0nZLk3KwoaMTpwp+Lh5C36nLLq21K9A56cZ+hkZON2qMCSgiybn90g4mqAywsc4lY7SASJRFK0Vo5hGvVSTx5TdgMDhv39kHjTUtOuY647GgR0MTztf0aZf/fU4/JF2pagwg==[/KText]" />

<add key="Microsoft.ServiceBus.ConnectionString" value="Endpoint=sb://cmpdevsb.servicebus.windows.net/;SharedSecretIssuer=owner;SharedSecretValue=[KText]OdutotKGwGUcHrCAxaoPKv/MThop7dHLeJ8NXEJ4I685+7HhOPxIIiqzpg1COg5Py9X7TYdXGV2nf6lst4jRCBCkxph/tEV/IfLnJOqtI3vM7LIMXBUjcwc/FGYL5vpJDNp+aWTKd++Zs7TnWsBkWWHgRHmF7crMFnprqa5I2dffp6E0/diPZNBn7asOtyBGyQ3yQCrG4jy43QdJxrrD/Q723uXORu4N2YayLT+u7Sgq9ol3iPDi5oKlahTscDtnkWbU7tbwg13jbXH63JFjAgJs3VEu+cP7Y2d1qhGP+fYygPRk2W/IqIiJfWRa+LaiB+Q8R72mdFPKojcMPUDI1w==[/KText]" />

<add key="KCTFolderName" value="KCT0001830"/>

<add key="ApproverAlias" value="redmond\ITCMPDev"/>

</appSettings>

<startup>

<supportedRuntime version="v4.0" sku=".NETFramework,Version=v4.5.1"/>

</startup>

<entityFramework>

<defaultConnectionFactory type="System.Data.Entity.Infrastructure.LocalDbConnectionFactory, EntityFramework">

<parameters>

<parameter value="v11.0"/>

</parameters>

</defaultConnectionFactory>

<providers>

<provider invariantName="System.Data.SqlClient" type="System.Data.Entity.SqlServer.SqlProviderServices, EntityFramework.SqlServer"/>

</providers>

</entityFramework>

<runtime>

<assemblyBinding xmlns="urn:schemas-microsoft-com:asm.v1">

<dependentAssembly>

<assemblyIdentity name="Microsoft.WindowsAzure.Storage" publicKeyToken="31bf3856ad364e35" culture="neutral"/>

<bindingRedirect oldVersion="0.0.0.0-3.0.3.0" newVersion="3.0.3.0"/>

</dependentAssembly>

<dependentAssembly>

<assemblyIdentity name="System.Data" publicKeyToken="b77a5c561934e089" culture="neutral"/>

<bindingRedirect oldVersion="0.0.0.0-4.0.0.0" newVersion="4.0.0.0"/>

</dependentAssembly>

<dependentAssembly>

<assemblyIdentity name="Microsoft.Data.OData" publicKeyToken="31bf3856ad364e35" culture="neutral"/>

<bindingRedirect oldVersion="0.0.0.0-5.6.1.0" newVersion="5.6.1.0"/>

</dependentAssembly>

<dependentAssembly>

<assemblyIdentity name="Newtonsoft.Json" publicKeyToken="30ad4fe6b2a6aeed" culture="neutral"/>

<bindingRedirect oldVersion="0.0.0.0-6.0.0.0" newVersion="6.0.0.0"/>

</dependentAssembly>

<dependentAssembly>

<assemblyIdentity name="Microsoft.Data.Edm" publicKeyToken="31bf3856ad364e35" culture="neutral"/>

<bindingRedirect oldVersion="0.0.0.0-5.6.1.0" newVersion="5.6.1.0"/>

</dependentAssembly>

<dependentAssembly>

<assemblyIdentity name="Microsoft.Data.Services.Client" publicKeyToken="31bf3856ad364e35" culture="neutral"/>

<bindingRedirect oldVersion="0.0.0.0-5.6.1.0" newVersion="5.6.1.0"/>

</dependentAssembly>

</assemblyBinding>

</runtime>

<system.serviceModel>

<bindings>

<basicHttpBinding>

<binding name="BasicHttpBinding\_IITSMTicketService">

<security mode="TransportCredentialOnly">

<transport clientCredentialType="Ntlm"/>

</security>

</binding>

</basicHttpBinding>

</bindings>

<client>

<!-- CMP Dev, test and UAT. Needs to run under an account that has perms to http://ITSMUAT. -->

<endpoint address="" binding="basicHttpBinding" bindingConfiguration="BasicHttpBinding\_IITSMTicketService" contract="ITSMTicketServiceReference.IITSMTicketService" name="BasicHttpBinding\_IITSMTicketService"/>

<!-- CMP Prod. Needs to run under an account that has perms to http://ITSM.

<endpoint address="http://itsm/ITSMWebService2/ITSMTicketService.svc"

binding="basicHttpBinding" bindingConfiguration="BasicHttpBinding\_IITSMTicketService"

contract="ITSMTicketServiceReference.IITSMTicketService" name="BasicHttpBinding\_IITSMTicketService" />-->

</client>

</system.serviceModel>

</configuration>

## WAP Extension Installation

Site + Resource Provider  
installer:

### Config File

#### Schema:

#### Description:

#### Sample:

<?xml version="1.0" encoding="utf-8"?>

<!--

For more information on how to configure your ASP.NET application, please visit

http://go.microsoft.com/fwlink/?LinkId=169433

-->

<configuration>

<configSections>

<!-- For more information on Entity Framework configuration, visit http://go.microsoft.com/fwlink/?LinkID=237468 -->

<section name="entityFramework" type="System.Data.Entity.Internal.ConfigFile.EntityFrameworkSection, EntityFramework, Version=6.0.0.0, Culture=neutral, PublicKeyToken=b77a5c561934e089" requirePermission="false" />

</configSections>

<connectionStrings>

<!-- CmpWap -->

<add name="CMPContext" connectionString="Data Source=cmpwap;Initial Catalog=CMP;Persist Security Info=True;User ID=sa;Password=XXX;MultipleActiveResultSets=True"

providerName="System.Data.SqlClient" />

<add name="MicrosoftMgmtSvcCmpContext" connectionString="Data Source=cmpwap;Initial Catalog=Microsoft.MgmtSvc.Cmp;Persist Security Info=True;User ID=sa;Password=123Mainau!;MultipleActiveResultSets=True"

providerName="System.Data.SqlClient" />

<add name="masterContext" connectionString="Data Source=thezephyr;Initial Catalog=master;Persist Security Info=True;User ID=sa;Password=123Mainau!;MultipleActiveResultSets=True"

providerName="System.Data.SqlClient" />

</connectionStrings>

<appSettings>

<!-- Following credentials are used for basic auth for CmpWapExtension resource provider. Its shown like this for this sample only.

Its always recommended not to store credentials in plain text in web.config.

Encrypt the credentials or config file -->

<add key="Username" value="admin" />

<add key="Password" value="pass@word1" />

<add key="CmpServiceUrl" value="https://cmpdevpubservice.cloudapp.net/Odata" />

<add key="MatchPattern" value="\*" />

<add key="DefaultTargetServiceProviderAccountID" value="0" />

<add key="DefaultTargetServiceProviderAccountGroup" value="Default" />

<add key="KryptoCert" value="LocalMachine,My,339C80283637D69D9D9F0F5FE00970D93CB0A148" />

<add key="CmpServiceCredentials" value="[KText]ArV8zwhjWZYi4Av0IOsjHniXAyp3Lp+y1KQM68T2ybGa/G6fV7CcklCSZmEekeX4/lDTkVrKtGKG+u8/5noRu4K+t1JrTe9wBBbNd+HjIGTBGKYcEuesUVfBaOl3VxJHoR6Ay8AdDiWJiVmCCVbmbcB4z33y+Rqn0jKnNkAESgWGP4I7hpdMebU/dWJq5d59QjqQmbcVa+n3izXSqo+NbmvuXD5zHadV7BYg+ph4rjX5+y58cCou+rF2SY9fhysZcaZnkQKwmUTWApc1RmM/SqwCPsp/InfSzQart84dShwUxLybXLqYmO/6SfqhPs+ifNJOWMexePnyxP5bIZZV/A==[/KText]" />

<add key="CMPContextPassword" value="[KText]aNVLpJUPQW0bosxnlW6tqzms1/Z3rylXz5sK+nXf6Jn7Bob9uF55FwIF4mjkdOGx2ZW0PQ8Mr1T87RabzI5vKrWFQFZ+4AXY+HR+jkRpLCVUjTiRE3Jxb8KNkibdc85NJIjJEKppXccNRS0K9kMlJ8RlyJPNaJOkaIobkZectcNNlSMEZZGk4ZP1Zy0CbJFxF6l7sAFQHdy6NgNEEm0nZLk3KwoaMTpwp+Lh5C36nLLq21K9A56cZ+hkZON2qMCSgiybn90g4mqAywsc4lY7SASJRFK0Vo5hGvVSTx5TdgMDhv39kHjTUtOuY647GgR0MTztf0aZf/fU4/JF2pagwg==[/KText]" />

</appSettings>

<!--

For a description of web.config changes see http://go.microsoft.com/fwlink/?LinkId=235367.

The following attributes can be set on the <httpRuntime> tag.

<system.Web>

<httpRuntime targetFramework="4.5.1" />

</system.Web>

-->

<system.web>

<compilation debug="true" targetFramework="4.5.1" />

<httpRuntime targetFramework="4.5" />

</system.web>

<system.webServer>

<validation validateIntegratedModeConfiguration="false" />

<handlers>

<remove name="ExtensionlessUrlHandler-ISAPI-4.0\_32bit" />

<remove name="ExtensionlessUrlHandler-ISAPI-4.0\_64bit" />

<remove name="ExtensionlessUrlHandler-Integrated-4.0" />

<add name="ExtensionlessUrlHandler-ISAPI-4.0\_32bit" path="\*." verb="GET,HEAD,POST,DEBUG,PUT,DELETE,PATCH,OPTIONS" modules="IsapiModule" scriptProcessor="%windir%\Microsoft.NET\Framework\v4.0.30319\aspnet\_isapi.dll" preCondition="classicMode,runtimeVersionv4.0,bitness32" responseBufferLimit="0" />

<add name="ExtensionlessUrlHandler-ISAPI-4.0\_64bit" path="\*." verb="GET,HEAD,POST,DEBUG,PUT,DELETE,PATCH,OPTIONS" modules="IsapiModule" scriptProcessor="%windir%\Microsoft.NET\Framework64\v4.0.30319\aspnet\_isapi.dll" preCondition="classicMode,runtimeVersionv4.0,bitness64" responseBufferLimit="0" />

<add name="ExtensionlessUrlHandler-Integrated-4.0" path="\*." verb="GET,HEAD,POST,DEBUG,PUT,DELETE,PATCH,OPTIONS" type="System.Web.Handlers.TransferRequestHandler" preCondition="integratedMode,runtimeVersionv4.0" />

<remove name="OPTIONSVerbHandler" />

<remove name="TRACEVerbHandler" />

</handlers>

</system.webServer>

<runtime>

<assemblyBinding xmlns="urn:schemas-microsoft-com:asm.v1">

<dependentAssembly>

<assemblyIdentity name="System.Web.Helpers" publicKeyToken="31bf3856ad364e35" />

<bindingRedirect oldVersion="1.0.0.0-2.0.0.0" newVersion="2.0.0.0" />

</dependentAssembly>

<dependentAssembly>

<assemblyIdentity name="System.Web.Mvc" publicKeyToken="31bf3856ad364e35" />

<bindingRedirect oldVersion="1.0.0.0-4.0.0.0" newVersion="4.0.0.0" />

</dependentAssembly>

<dependentAssembly>

<assemblyIdentity name="System.Web.WebPages" publicKeyToken="31bf3856ad364e35" />

<bindingRedirect oldVersion="0.0.0.0-3.0.0.0" newVersion="3.0.0.0" />

</dependentAssembly>

<dependentAssembly>

<assemblyIdentity name="System.Web.Razor" publicKeyToken="31bf3856ad364e35" culture="neutral" />

<bindingRedirect oldVersion="0.0.0.0-3.0.0.0" newVersion="3.0.0.0" />

</dependentAssembly>

<dependentAssembly>

<assemblyIdentity name="System.Web.WebPages.Razor" publicKeyToken="31bf3856ad364e35" culture="neutral" />

<bindingRedirect oldVersion="0.0.0.0-3.0.0.0" newVersion="3.0.0.0" />

</dependentAssembly>

<dependentAssembly>

<assemblyIdentity name="Microsoft.WindowsAzure.Storage" publicKeyToken="31bf3856ad364e35" culture="neutral" />

<bindingRedirect oldVersion="0.0.0.0-3.0.3.0" newVersion="3.0.3.0" />

</dependentAssembly>

<dependentAssembly>

<assemblyIdentity name="System.Data" publicKeyToken="b77a5c561934e089" culture="neutral" />

<bindingRedirect oldVersion="0.0.0.0-4.0.0.0" newVersion="4.0.0.0" />

</dependentAssembly>

</assemblyBinding>

</runtime>

<entityFramework>

<defaultConnectionFactory type="System.Data.Entity.Infrastructure.LocalDbConnectionFactory, EntityFramework">

<parameters>

<parameter value="v11.0" />

</parameters>

</defaultConnectionFactory>

<providers>

<provider invariantName="System.Data.SqlClient" type="System.Data.Entity.SqlServer.SqlProviderServices, EntityFramework.SqlServer" />

</providers>

</entityFramework>

</configuration>

### DB

## Secret Management:

CMP requires access to a number of secrets in order to perform it’s functions.

|  |  |  |
| --- | --- | --- |
| Name | Source | Store |
| … | Request | DB |
| … | DB | DB |
| … | Config | Config |

Encryption Model:  
  
Asymmetric crypto.

* Encrypt: Clear->ToUTF8->RSACryptoServiceProvider->ToB64->Ciphertext
* Decrypt: FromB64->RSACryptoServiceProvider->FromUTF8->Cleartext
* Shared cert: .cer used by operators, .pfx used by cloud service.
* Encryption performed on premises with desktop tool.
* Decryption performed in cloud service.

#### Storage:

* Ciphertext is stored in a KText block. KText Block := [KText]<ciphertext>[/KText]
* A KText block may appear in any string.
* At config time the operator encrypts clear text and inserts the ciphertext into KText blocks.
* At config time the operator uses the KTextUtil tool to create KText blocks (see appendix)
* During runtime processing the blocks are removed and the ciphertext is resolved with the Cleartext. For example:

“The Secret is -> ‘[KText]W2r…hsdr==[/KText]’” would resolve to “The Secret is -> ‘Happiness’”

#### Configuration:

**App Settings**

|  |  |  |  |
| --- | --- | --- | --- |
| Setting | Location | Format | Description |
| KryptoCert | Key/Value | <StoreLocation>,<store>,<Thumb> | Specifies the cert to be used for decryption |
| <KText Block> | Value | [KText]<ciphertext>[/KText] | Ciphertext block inserted into any string value. |

  <appSettings>

    <add key="KryptoCert" value="LocalMachine, My, 345…148" />

    <add key="DomainJoinAccount" value="redmond, superfly, [KText]1…ekw==[/KText]" />

    <add key="CMPContextPassword" value="[KText]k7o6…0Ka==[/KText]" />

  </appSettings>

**Connection Strings**

Special handling. Add connection string as usual to config file, blank out clear password:

  <connectionStrings>

    <add name="CMPContext" connectionString="Data Source=vp947thmuq.database.windows.net,1433;Initial Catalog=CMP;Persist Security Info=True;User ID=markw@vp947thmuq;Password=XXX;MultipleActiveResultSets=True;Encrypt=True"

      providerName="System.Data.SqlClient" />

  </connectionStrings>

Add a key to the AppSettings section named “<ConnectionSting.name>Password” with the ciphertext of the password in a KText block:

  <appSettings>

    <add key="CMPContextPassword" value="[KText]k7o…U0Ka ==[/KText]" />

  </appSettings>

--------------------------------------------

### CmpAzureServiceWebRole

### Web.config

**App Settings**

|  |  |  |  |
| --- | --- | --- | --- |
| Setting | Location | Format | Description |
| KryptoCert | appSettings | <StoreLocation>,<store>,<Thumb> | Specifies the cert to be used for decryption |
| CMPContext | Connection String | <connectionString> | A standard SQL auth connection string with the password value replaced with ‘XXX’ |
| CMPContext | appSettings | <connectionString> | A standard SQL auth connection string with the password value replaced with ‘XXX’ (intentional duplicate) |
| CMPContextPassword | appSettings | [KText]<ciphertext>[/KText] | Ciphertext value of the CMPContext connection string password |
| CmpServiceUserName | appSettings | <username> | Basic Auth creds username used to access Cmp Web Service Interface |
| CmpServiceUserPassword | appSettings | [KText]<ciphertext>[/KText] | Basic Auth creds user password used to access Cmp Web Service Interface |

Sample Values

<configuration>

  <connectionStrings>

    <add name="CMPContext" connectionString="Data Source=x1wbwqfi4p.database.windows.net,1433;Initial Catalog=CmpUatDb;Persist Security Info=True;User ID=markw@x1wbwqfi4p;Password=XXX;MultipleActiveResultSets=True;Encrypt=True" providerName="System.Data.SqlClient" />

  </connectionStrings>

  <appSettings>

    <add key="KryptoCert" value="LocalMachine,My,339C80283637D69D9D9F0F5FE00970D93CB0A148" />

    <add key="CMPContext" value="Data Source=x1wbwqfi4p.database.windows.net,1433;Initial Catalog=CmpUatDb;Persist Security Info=True;User ID=markw@x1wbwqfi4p;Password=XXX;MultipleActiveResultSets=True;Encrypt=True" />

    <add key="CMPContextPassword" value="[KText]aNVLpJUPQW0bosxnlW6tqzms1/Z3rylXz5sK+nXf6Jn7Bob9uF55FwIF4mjkdOGx2ZW0PQ8Mr1T87RabzI5vKrWFQFZ+4AXY+HR+jkRpLCVUjTiRE3Jxb8KNkibdc85NJIjJEKppXccNRS0K9kMlJ8RlyJPNaJOkaIobkZectcNNlSMEZZGk4ZP1Zy0CbJFxF6l7sAFQHdy6NgNEEm0nZLk3KwoaMTpwp+Lh5C36nLLq21K9A56cZ+hkZON2qMCSgiybn90g4mqAywsc4lY7SASJRFK0Vo5hGvVSTx5TdgMDhv39kHjTUtOuY647GgR0MTztf0aZf/fU4/JFyyyyy==[/KText]" />

    <add key="CmpServiceUserName" value="CmpServiceUser" />

    <add key="CmpServiceUserPassword" value="[KText]aNVLpJUPQW0bosxnlW6tqzms1/Z3rylXz5sK+nXf6Jn7Bob9uF55FwIF4mjkdOGx2ZW0PQ8Mr1T87RabzI5vKrWFQFZ+4AXY+HR+jkRpLCVUjTiRE3Jxb8KNkibdc85NJIjJEKppXccNRS0K9kMlJ8RlyJPNaJOkaIobkZectcNNlSMEZZGk4ZP1Zy0CbJFxF6l7sAFQHdy6NgNEEm0nZLk3KwoaMTpwp+Lh5C36nLLq21K9A56cZ+hkZON2qMCSgiybn90g4mqAywsc4lY7SASJRFK0Vo5hGvVSTx5TdgMDhv39kHjTUtOuY647GgR0MTztf0aZf/fU4/JFxxxxx==[/KText]" />

  </appSettings>

</configuration>

--------------------------------------------

### CmpAzureWorkerWorkerRole

### App.config

**App Settings**

|  |  |  |  |
| --- | --- | --- | --- |
| Setting | Location | Format | Description |
| KryptoCert | appSettings | <StoreLocation>,<store>,<Thumb> | Specifies the cert to be used for decryption |
| CMPContext | Connection String | <connectionString> | A standard SQL auth connection string with the password value replaced with ‘XXX’ |
| DomainJoinAccount | appSettings | <domain>,<name>,[KText]<ciphertext>[/KText] | This account is used as the domain creds to join each new VM to the given domain. KText is the ciphertext value of the account password. |
| CmpWorker.DomainJoin.DomainName | appSettings | <domain> | This is the domain on which the CmpWorker service should reside. |
| CmpWorker.DomainJoin.UserName | appSettings | <account name> | This account is used as the domain creds to join the CmpWorker service to the given domain. |
| CmpWorker.DomainJoin.UserPassword | appSettings | [KText]<ciphertext>[/KText] | KText is the ciphertext value of the CmpWorker service domain join account password. |
| AUTOLOCALADMINUSERNAME | appSettings | <user name> | Local VM admin user of each new VM created |
| AUTOLOCALADMINPASSWORD | appSettings | [KText]<ciphertext>[/KText] | Ciphertext value of the local VM admin account password |
| CMPContextPassword | appSettings | [KText]<ciphertext>[/KText] | Ciphertext value of the CMPContext connection string password |
|  |  |  |  |

Sample Values

<configuration>

  <configSections>

  <connectionStrings>

    <add name="CMPContext" connectionString="Data Source=x1wbwqfi4p.database.windows.net,1433;Initial Catalog=CmpUatDb;Persist Security Info=True;User ID=markw@x1wbwqfi4p;Password=XXX;MultipleActiveResultSets=True;Encrypt=True" providerName="System.Data.SqlClient" />

  </connectionStrings>

  <appSettings>

    <add key="KryptoCert" value="LocalMachine,My,339C80283637D69D9D9F0F5FE00970D93CB0A148" />

    <add key="DomainJoinAccount" value="redmond,markwes,[KText]kdPXcqVzA9R3ZK3Z8kP8FcNQEaVz6GR5ptji8pEiD5TJRq/Vr7I7oX9lMlWJoMwEEE1msvtLJ8Fun2JrUDBgeQtjjz9j0Pj/vKqhqmsHDL4jG9L3YXzq2tu2qLS5uyAJdd5iD8RME0eGCV8TzjzqSUGC9P/t3cQa8DTx9EMxrrvJaSJWb3cbHNiFvP56jVKNnZHN9GE7lGv8ggKoQYOxI3J/gZUk6egxvPlSktURXZX6TlxeFJnPqEVJhNFUpFAa417W+dB5m1ERCC/psruhKs43XszSAIJHVVpyzDaVjZASDJxtLDFg8ikRzLpe9RcWwl4c2xFclgZdtF1SBg1sWQ==[/KText]" />

    <add key="CmpWorker.DomainJoin.DomainName" value="redmond.corp.microsoft.com" />

    <add key="CmpWorker.DomainJoin.UserName" value="markwes" />

    <add key="CmpWorker.DomainJoin.UserPassword" value="[KText]kdPXcqVzA9R3ZK3Z8kP8FcNQEaVz6GR5ptji8pEiD5TJRq/Vr7I7oX9lMlWJoMwEEE1msvtLJ8Fun2JrUDBgeQtjjz9j0Pj/vKqhqmsHDL4jG9L3YXzq2tu2qLS5uyAJdd5iD8RME0eGCV8TzjzqSUGC9P/t3cQa8DTx9EMxrrvJaSJWb3cbHNiFvP56jVKNnZHN9GE7lGv8ggKoQYOxI3J/gZUk6egxvPlSktURXZX6TlxeFJnPqEVJhNFUpFAa417W+dB5m1ERCC/psruhKs43XszSAIJHVVpyzDaVjZASDJxtLDFg8ikRzLpe9RcWwl4c2xFclgZdtF1SBg1sWQ==[/KText]" />

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    <add key="CMPContextPassword" value="[KText]aNVLpJUPQW0bosxnlW6tqzms1/Z3rylXz5sK+nXf6Jn7Bob9uF55FwIF4mjkdOGx2ZW0PQ8Mr1T87RabzI5vKrWFQFZ+4AXY+HR+jkRpLCVUjTiRE3Jxb8KNkibdc85NJIjJEKppXccNRS0K9kMlJ8RlyJPNaJOkaIobkZectcNNlSMEZZGk4ZP1Zy0CbJFxF6l7sAFQHdy6NgNEEm0nZLk3KwoaMTpwp+Lh5C36nLLq21K9A56cZ+hkZON2qMCSgiybn90g4mqAywsc4lY7SASJRFK0Vo5hGvVSTx5TdgMDhv39kHjTUtOuY647GgR0MTztf0aZf/fU4/JF2pagwg==[/KText]" />

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