



## SecureAccess AMI Preparation Guide

## Procedure to create AMI

1. Login to the AWS management console with
2. Navigate to the EC2 dashboard.
3. Choose **Launch Instance**.
4. Choose an AMI for Windows Server 2012 R2 base in **Free tier only** or **AWS Marketplace**.
5. Choose **Select** and then **Review and Launch**.
6. Choose **Launch**. Select existing or create a new key pair and download it.
7. In the instances view select the instance and not down the public IP or DNS address.
8. RDP to the instance.
9. Copy Scripts folder to C:
10. Open the command prompt.
11. Run the batch file to start the sysprep process.  
Enter **C:\Scripts\runSysprep.cmd**.
12. The sysprep process starts and the RDP session disconnects because the system is shut down after sysprep is complete.
13. Go to the instances view and select the instance.
14. In the **Actions** menu, choose **Image->Create Image**.
15. Enter **Image name** and **Image description**.
16. Choose **Create Image**.
17. Navigate to the EC2 dashboard and choose **Images->AMIs**.
18. The status of the AMI is displayed as Pending. When complete it changes to Available.
19. To test deployment, select the AMI and choose **Launch**.  
Follow the procedure in the Celestix SecureAccess AWS deployment guide.

## Description of content in the Scripts folder

Filename/Script	Description
unattend.xml	The unattended answer file that is used to prepare a generalized image.
boot.cmd	Contains commands that are run during the OOBE phase of sysprep. <ol style="list-style-type: none"> <li>1. Install SecureAccess in silent mode.</li> <li>2. Modify WinRM rules to accept inbound on the public profile. <i>This is mandatory. Otherwise AMI scan by AWS will fail and the product cannot be submitted to the AWS marketplace.</i></li> <li>3. IPv6 components are disabled by default in the Windows Server 2012 R2 base AMI. <i>Because of this the SecureAccess configuration will fail during the prerequisites check of SecureAccess setup wizard.</i></li> <li>4. Logoff from the system. <i>If this is not done the user is not logged off and there will be two users when the instance is accessed the first time.</i></li> <li>5. Delete the Scripts folder from C:\ as the post-sysprep process is complete.</li> </ol>
ClxEC2Config.ps1	AWS uses a service called EC2config to access the instance and perform various tasks. By default it disables two settings. <ol style="list-style-type: none"> <li>1. Ec2SetPassword and Ec2HandleUserData in the config.xml file in</li> </ol>

	<p>C:\Program Files\Amazon\Ec2ConfigService\Settings\Config.xml.</p> <p>2. The setting RemoveCredentialsfromSysprepOnStartup in C:\Program Files\Amazon\Ec2ConfigService\Settings\BundleConfig.xml is set to True.</p> <p>This script sets the properties Ec2SetPassword and Ec2HandleUserData in the config.xml file to <b>Enabled</b> and sets the property RemoveCredentialsfromSysprepOnStartup to <b>false</b>.</p>
tcpip6.reg	IPv6 components are disabled by default in the Windows Server 2012 R2 base AMI. This is run as part of the boot.cmd script to enabled IPv6 components. (boot.cmd)
vCelestixSecureAccess.exe	The SecureAccess installer.
runSysprep.cmd	<ol style="list-style-type: none"> <li>1. Copies the unattend.xml file to C:\Program Files\Amazon\Ec2ConfigService.</li> <li>2. Deletes sysprep2008.xml in C:\Program Files\Amazon\Ec2ConfigService.</li> <li>3. Modifies BundleConfig.xml and Config.xml in C:\Program Files\Amazon\Ec2ConfigService\Settings. (ClxEC2Config.ps1)</li> <li>4. Run unattended sysprep.</li> </ol> <p>In the command Prompt window, run the following command.</p> <pre>cmd /c "C:\Program Files\Amazon\Ec2ConfigService\Ec2Config.exe" -sysprep</pre>