

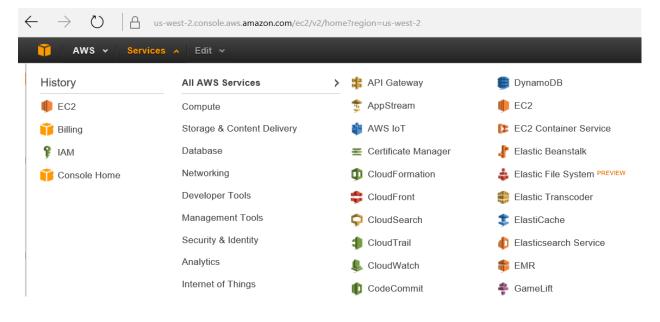
Prototype Deployment

Instructions for deploying the prototype using the public AWS AMI available are provided below as well as instructions for setting up a Windows Server to deploy the prototype.

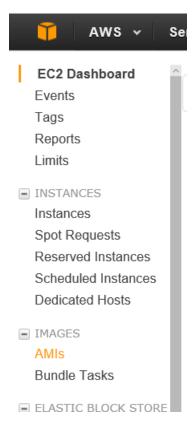
AWS - AMI Deployment

Below are the steps for deploying the AMI to AWS

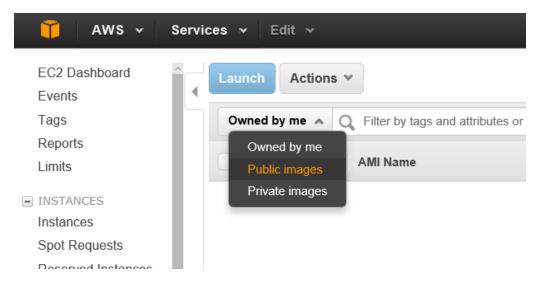
- 1. If you don't have an AWS account follow the steps below to create a free tier account in AWS
 - a. Go to aws.amazon.com/free and create a free account
 - b. You will be asked to supply a credit card number in case your usage exceeds the free time allotted on the account. And you will be asked to provide a phone number to verify your identity.
 - c. Select the basic no cost support plan.
 - d. You are now ready to start an instance.
- 2. Login to your AWS Account
- 3. Under the services menu select EC2



4. On the left menu under images select AMI



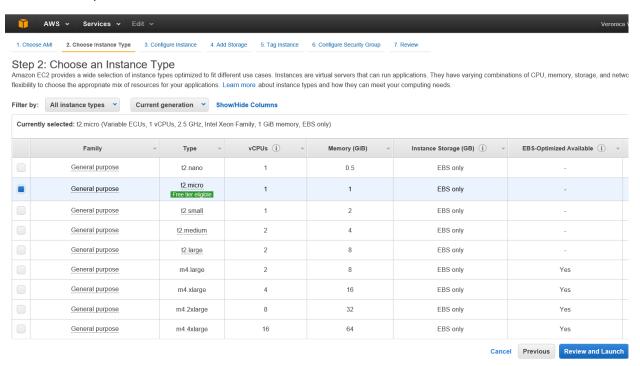
5. Select the option to search for public images



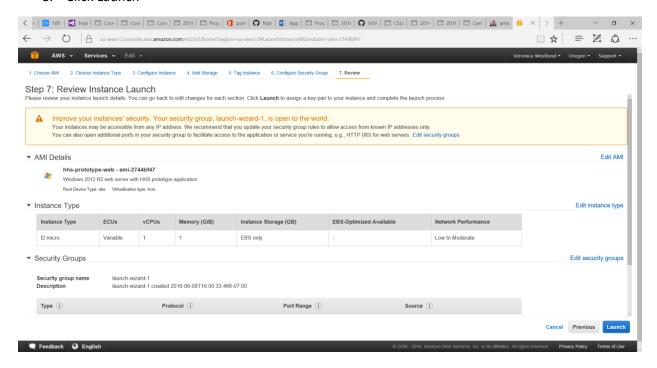
6. Search for "natoma-hhs-prototype" as name of the ID of "ami-f8b44e98". Once found select the launch button



7. When you launch select the t2.micro and select review and launch

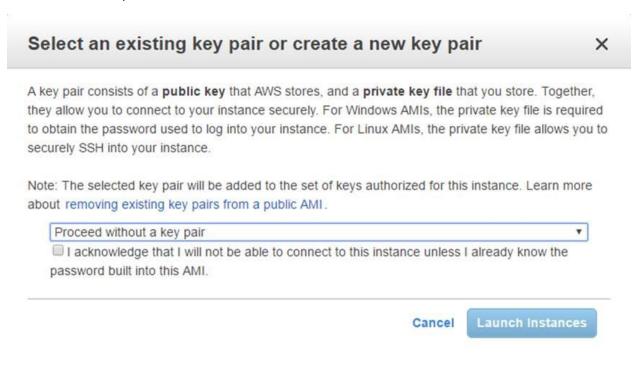


8. Click Launch

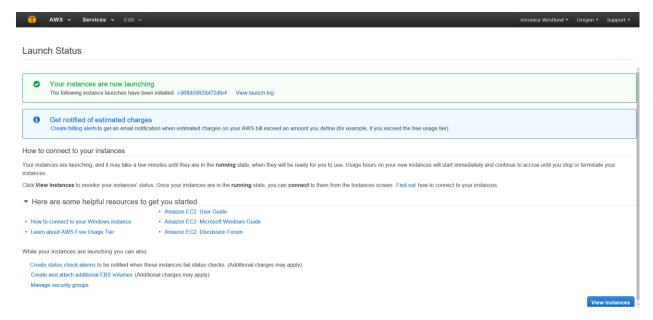


NOTE: We recommend you create a security group to limit RDP access to the server from your network, and only open port 80 to everyone – or limit to your network to restrict access.

9. When ready click the Launch button.



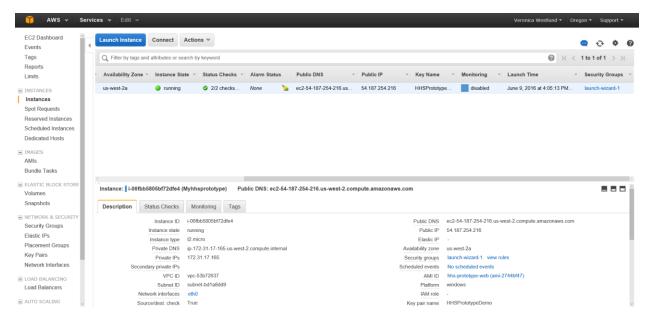
- 10. Since this is for a public custom AMI, we are providing the Administrator Password: FAE=ETN\$kZT and as such the key pairs will not be able to be used to retrieve an Administrator password. Because of this, we suggest you proceed without a key pair.
- 11. Click "Launch Instances"
- 12. You will be given a status page and can wait about 5 minutes for the instance to launch



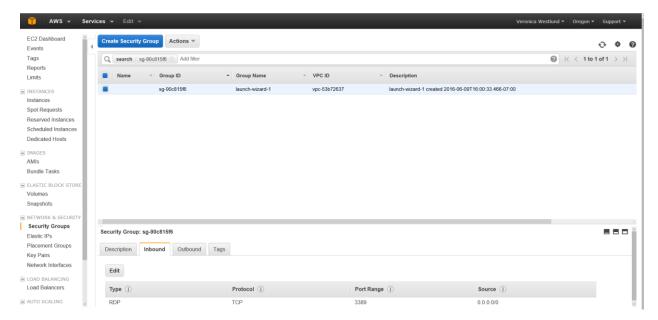
13. Click View instances



14. Refresh your view after about 5 minutes and once it has finished initializing you can verify the security group allows port 80 and then you can connect to the web site on the server.



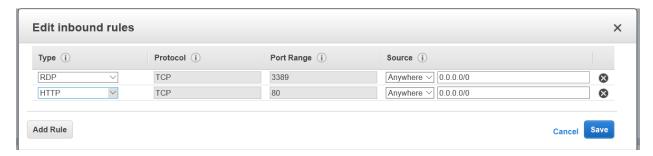
15. Click on the Security Group Name



16. Scroll down and add http inbound by clicking Edit



17. Click Add Rule



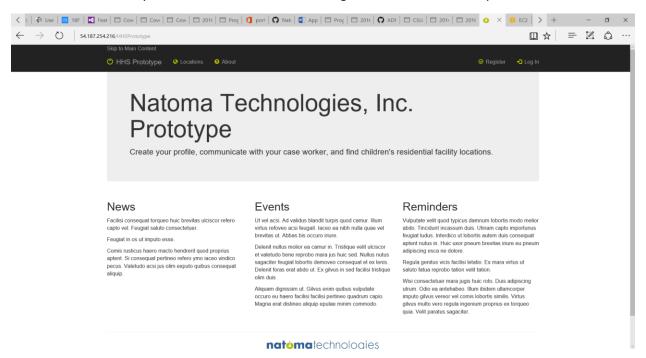
- 18. Select HTTP and then click Save
- 19. Now you can go to the web site on the server by using the public IP address



For instance, in the example above the public IP is 54.187.254.216 the site address for the prototype is: http://54.187.254.216/HHSPrototype/

NOTE: This server was created to demonstrate the installation only and will not be active for you to visit

20. The first time you access the site it will take longer for the site to start up.

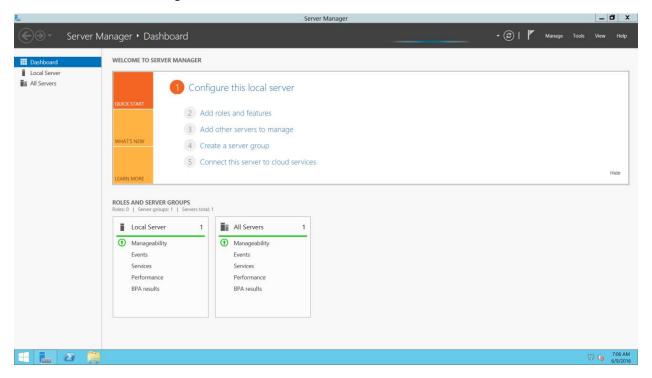


- 21. The prototype is now deployed and ready for use!
- 22. If you need to login to the instance to access the files directly the Administrator password is: FAE=ETN\$kZT

Deploy Manually to a Windows Server

To deploy manually to a Windows Server you must first make sure the server has the appropriate roles installed.

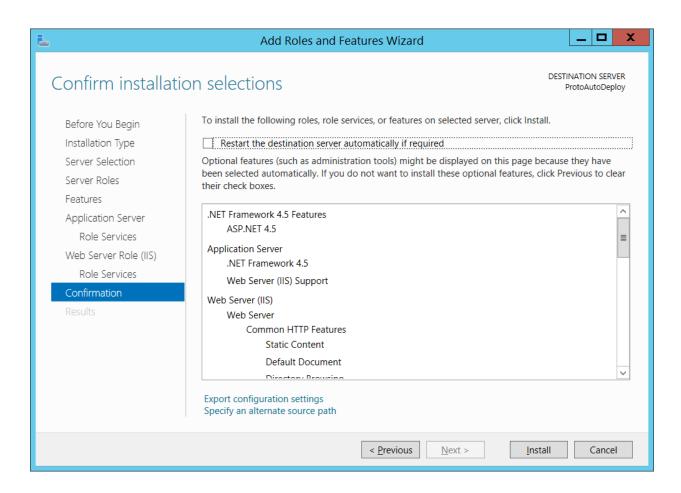
1. Go to Server Manager on the Server



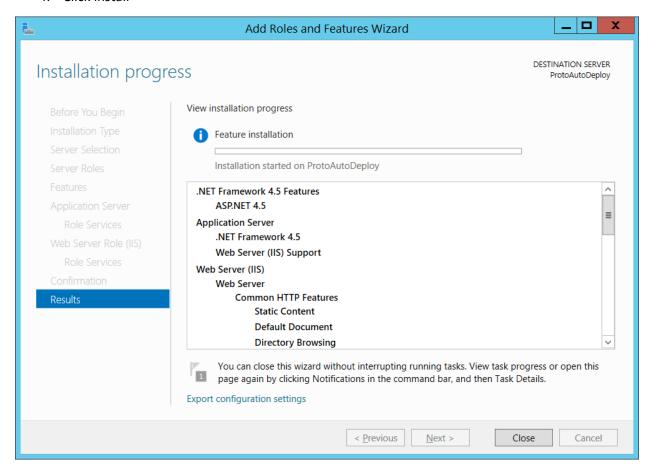
2. Click Add Roles and Features

3. The following screen shows the server roles and features that should be installed:

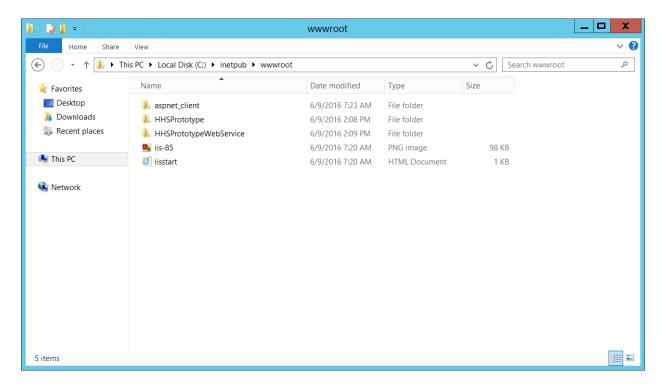
Roles				Features		
Г	Active Directory Certificate Services			■ .NET Framework 3.5 Features (1 of 3 installed)		
	Active Directory Certificate Services Active Directory Domain Services		4	✓ .NET Framework 3.5 (reduces .NET 2.0 and 3.0) (Installed)		
	Active Directory Federation Services			HTTP Activation		
	Active Directory Lightweight Directory Services Active Directory Rights Management Services			Non-HTTP Activation		
			4	NET Framework 4.5 Features (4 of 7 installed)		
4	Application Server (2 of 11 installed)			✓ .NET Framework 4.5 (Installed)		
	✓ .NET Framework 4.5 (Installed)			ASP.NET 4.5 (Installed)		
	COM+ Network Access			■ WCF Services (2 of 5 installed)		
	Distributed Transactions			✓ HTTP Activation (Installed)		
	☐ TCP Port Sharing			Message Queuing (MSMQ) Activation		
	✓ Web Server (IIS) Support (Installed)			☐ Named Pipe Activation		
	▶ ☐ Windows Process Activation Service Support			☐ TCP Activation		
	☐ DHCP Server			▼ TCP Port Sharing (Installed)		
	☐ DNS Server		Þ	☐ Background Intelligent Transfer Service (BITS)		
	☐ Fax Server			☐ BitLocker Drive Encryption		
4	File and Storage Services (2 of 12 installed)			☐ BitLocker Network Unlock		
Г	File and iSCSI Services (1 of 11 installed)			☐ BranchCache		
	✓ File Server (Installed)			Client for NFS		
	BranchCache for Network Files			Data Center Bridging		
	Data Deduplication			Direct Play		
	☐ DFS Namespaces			Enhanced Storage		
	DFS Replication			Failover Clustering		
	File Server Resource Manager			Group Policy Management		
	☐ File Server VSS Agent Service			☐ IIS Hostable Web Core		
	☐ iSCSI Target Server			☐ Ink and Handwriting Services		
	 iSCSI Target Storage Provider (VDS and VSS hardware providers) 			☐ Internet Printing Client		
	Server for NFS			☐ IP Address Management (IPAM) Server		
	☐ Work Folders			☐ iSNS Server service		
	✓ Storage Services (Installed)			☐ LPR Port Monitor		
	☐ Hyper-V			Management OData IIS Extension		
	☐ Network Policy and Access Services			Media Foundation		
	Print and Document Services		N.	Message Queuing		
	Remote Access		ν.:			
	Remote Desktop Services			Multipath I/O		
	☐ Volume Activation Services			Network Load Balancing		
				Peer Name Resolution Protocol		
4	Web Server (IIS) (31 of 43 installed)			Quality Windows Audio Video Experience		
	■ Web Server (28 of 34 installed)			RAS Connection Manager Administration Kit (CMAK)		
	■ Common HTTP Features (5 of 6 installed)			Remote Assistance		
	✓ Default Document (Installed)			Remote Differential Compression		
	✓ Directory Browsing (Installed)		Þ	Remote Server Administration Tools		
	HTTP Errors (Installed)			RPC over HTTP Proxy		
	✓ Static Content (Installed)			Simple TCP/IP Services		
	✓ HTTP Redirection (Installed)			✓ SMB 1.0/CIFS File Sharing Support (Installed)		
				SMB Bandwidth Limit		
	■ Health and Diagnostics (3 of 6 installed)			SMTP Server		
	✓ HTTP Logging (Installed)		Ď.	SNMP Service		
	Custom Logging			Telnet Client		
	✓ Logging Tools (Installed)			☐ Telnet Server		
	☐ ODBC Logging			TFTP Client		
	Request Monitor (Installed)	4		User Interfaces and Infrastructure (2 of 3 installed)		
	Tracing			✓ Graphical Management Tools and Infrastructure (Installed)		
	▶ ✓ Performance (Installed)			Desktop Experience		
	▲ ■ Security (8 of 9 installed)			Server Graphical Shell (Installed)		
	Request Filtering (Installed)			Windows Biometric Framework		
			0			
	✓ Basic Authentication (Installed)			Windows Feedback Forwarder		
	Centralized SSL Certificate Support			Windows Identity Foundation 3.5		
	 Client Certificate Mapping Authentication (Installed) 			Windows Internal Database		
	☑ Digest Authentication (Installed)	4		Windows PowerShell (3 of 5 installed)		
	✓ IIS Client Certificate Mapping Authentication (Installed)			✓ Windows PowerShell 4.0 (Installed)		
	✓ IP and Domain Restrictions (Installed)			✓ Windows PowerShell 2.0 Engine (Installed)		
	✓ URL Authorization (Installed)			☐ Windows PowerShell Desired State Configuration Service		
	✓ Windows Authentication (Installed)			✓ Windows PowerShell ISE (Installed)		
	▲ ■ Application Development (10 of 11 installed)			☐ Windows PowerShell Web Access		
	✓ .NET Extensibility 3.5 (Installed)	4		Windows Process Activation Service (2 of 3 installed)		
	✓ .NET Extensibility 4.5 (Installed)			✓ Process Model (Installed)		
	Application Initialization (Installed)			.NET Environment 3.5		
				✓ Configuration APIs (Installed)		
	ASP (Installed)			Windows Search Service		
	ASP,NET 3.5 (Installed)					
	ASP.NET 4.5 (Installed)			Windows Server Backup		
	☐ CGI			Windows Server Migration Tools		
	✓ ISAPI Extensions (Installed)			Windows Standards-Based Storage Management		
	✓ ISAPI Filters (Installed)			Windows TIFF IFilter		
	✓ Server Side Includes (Installed)			WinRM IIS Extension		
	A think Contact Dentact I Have the	-		□ WINS Server		



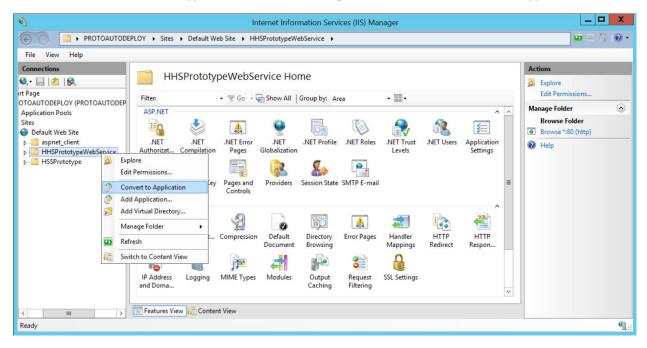
4. Click install



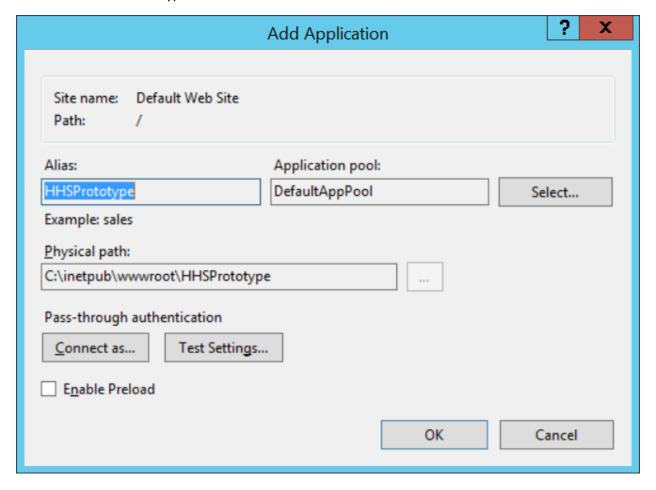
- 5. Open File Explorer and create two folders under wwwroot in inetpub:
 - HHSPrototype and
 - HHSPrototypeWebService

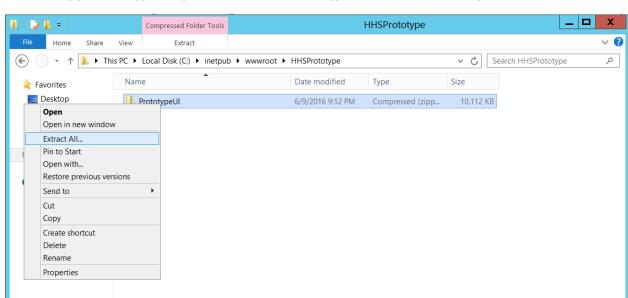


- 6. Open IIS
- 7. And Navigate to Default Web Site, find the folders and right click and select
- 8. Select the HHSPrototypeWebService folder, Right Click and select Convert to Application



9. Select HHSPrototype and do the same

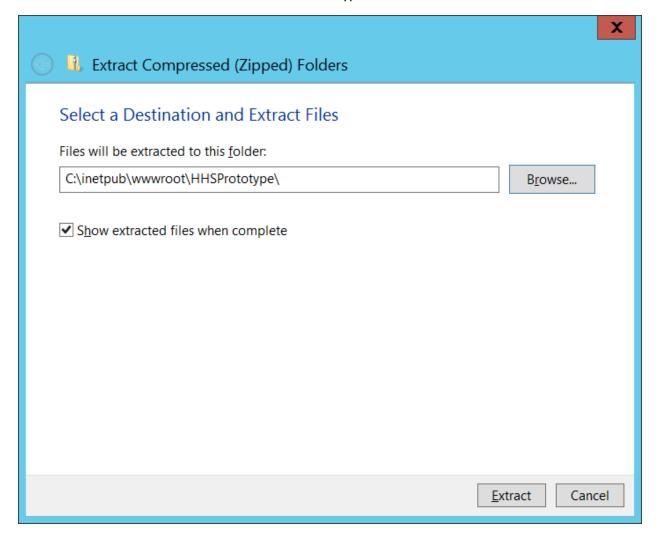




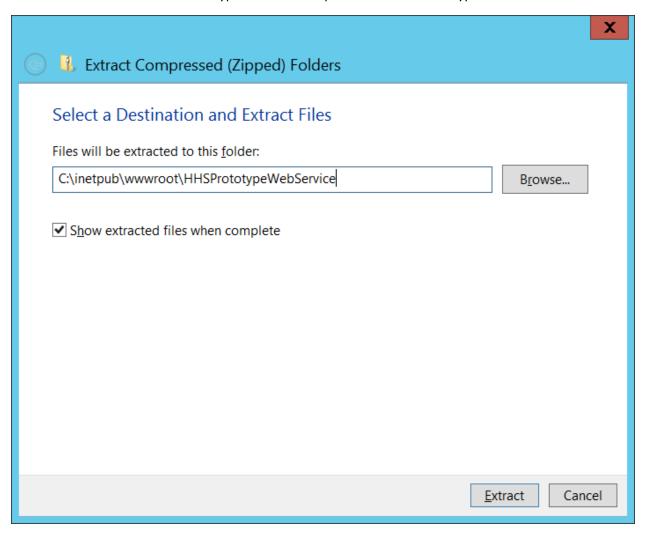
10. Copy the ProtypeUI.zip file into the HHSPrototype folder and extract in place:

1 item selected 9.87 MB

11. Do not create another folder under HHSPrototype



12. Do the same for the PrototypeWebService.zip file in the HHSPrototypeWebService folder.



13. Create a folder to store the data that will be written.

Permissions for AppData Security Object name: C:\inetpub\wwwroot\HHSPrototypeWebService\AppD Group or user names: & CREATOR OWNER SYSTEM Administrators (PROTOAUTODEPLOY\Administrators) Users (PROTOAUTODEPLOY\Users) & IIS_IUSRS (PROTOAUTODEPLOY\IIS_IUSRS) TrustedInstaller A<u>d</u>d... Remove Permissions for CREATOR OWNER Allow Deny Full control Modify ~ Read & execute List folder contents Read OK Cancel <u>Apply</u>

14. On this folder give permissions to the IIS_IUSRS to Create, Read and Modify

15. Open the web.config file in the HHSPrototypeWebService folder and set the following value to the name of the directory you created:

<add key="saveDirectory" value=""/>

16. Open the web.config file in the HHSPrototype folder, if you did not install the web service as an application called "HhsPrototypeWebService" you will need to modify the endpoint:

<client>

<endpoint address="http://localhost/HhsPrototypeWebService/ProtoProcSvc.svc"</pre>

binding="basicHttpBinding" bindingConfiguration="BasicHttpBinding_IProtoProcSvc"

17. Make sure .NET framework 4.6.1 is installed on the server:

https://www.microsoft.com/en-us/download/confirmation.aspx?id=49981