# Department of Veterans Affairs VistAWeb (NVW) Version 16.1.7



## **Production Installation Guide**

Department of Veterans Affairs Office of Information and Technology Product Development

## **Revision History**

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## **1 VistAWeb Production Environment**

This section provides VistAWeb system component information for the Production environment, normally referred to as Prod.

The Prod environment is deployed on the Virtual Machines (VMs) listed in Table 1 below. These VMs are hosted on the existing AITC VM Farm.

**Note:** For the Austin Production Environment only the Web Server: VAAUSNVWWEB200 (Windows) and the two Database Servers: VAAUSNVWSQL200 (Windows) and VAAUSNVWSQL201 (Windows) will be used.

Name of VM	Server features on the VM
Web Server: VAAUSNVWWEB200	Operating System (OS): Microsoft Windows Server 2008 R2 SP1 (64-bit)
(windows)	Microsoft DotNet Framework version 4.0
	4 vCPUs
	C:\OS 40 GB
	D:\ App 50 GB L:\ Logs 200 GB
Web Server: VAAUSNVWWEB201	Operating System (OS): Microsoft Windows Server 2008 R2 SP1 (64-bit)
(Windows)	Web Server: Microsoft Internet Information Services (IIS) version 7.5 Microsoft DotNet Framework version 4.0
	8 GB Memory (RAM)
	2 vCPUs
	D: App 50 GB
	L:\Logs 200 GB
Database Servers:	Operating System (OS): Microsoft Windows Server 2008 R2 SP1
(Windows)	Microsoft SQL Server 2008 R2
(	Microsoft DotNet Framework version 4.0
	16 GB Memory (RAM)
	D:\ App 20 GB
	E:\ Data 200 GB
	L:\ SQLLogs 40 GB
	M:\ FW_Imports 25 GB
	B:\Backups 225 GB

**Table 1: VistAWeb Production Environment Virtual Machines** 

Name of VM	Server features on the VM
Database Servers:	Operating System (OS): Microsoft Windows Server 2008 R2 SP1
VAAUSNVWSQL201	(64-bt)
(Windows)	Microsoft SQL Server 2008 R2
	Microsoft DotNet Framework version 4.0
	16 GB Memory (RAM)
	2 vCPUs
	C:\OS 40 GB
	D:\ App 20 GB
	E:\ Data 200 GB
	L:\ SQLLogs 20 GB
	T:\TempDB 50 GB
	B:\ Backups 200 GB

## **2 Installation Considerations**

Before actual code can be deployed into the Production environment, you must perform necessary backups of the system and verify that the required files have been dropped into their respective staging areas by the NwHIN VistAWeb Development Team.

### 2.1 Backing up the System

Before the Installation of the SQL database and the VistAWeb application request a snapshot be taken for purpose of being able to restore the Servers to their original configuration before you began the install.

### 2.2 Retrieving Files from Staging Location

The various files associated with the new code must first be dropped by the NwHIN VistAWeb Development team into staging areas.

### 2.2.1 Application Staging Area

Create the following folder on the VAAUSNVWWEB200 server.

```
D:\data\Download\vistaweb\v1617\T1
```

This location will be referred to in this document as the <APP\_STAGE> location of the VistAWeb installation files.

The NwHIN VistAWeb Development team drops files for the VAAUSNVWWEB200 server here.

```
\\vaausnvwmul800\shares\NHIN\NHIN-Staging\NVW\PROD\v1617\T1
```

Note: Depending on how many build versions there are, there could be a number of different folders in \v1617\ folder. These will be named 'T' followed by the build number (ex. \v1617\T1). VistAWeb Development team will put the latest files in the latest version (highest T number).

From this location, copy the files there to the <APP\_STAGE> folder.

## Table 2: Staging Information for the Web Servers (VAAUSNVWWEB200 and<br/>VAAUSNVWWEB201)

Staging Folder Alias	New Files to Copy
<app_stage></app_stage>	<pre>vistaweb_COMPLETE_16.1.7.T1.4.30.2015.zip</pre>

Note: There will be no database change for this installation. Skip to Section 4.

### 2.2.2 Database Scripts Staging Area

Create the following folder on the VAAUSNVWSQL201 server.

D:\data\Download\vistaweb\v1617\DBS

This location will be referred to in this document as the <DBS\_STAGE> location of the VistAWeb database installation files.

The NwHIN VistaWeb Development team drops files here.

\\vaausnvwmul800\shares\NHIN\NHINStaging\NVW\PROD\v1617\T1\DBS

From this location, copy the files there to the *<*DBS\_STAGE*>* folder.

Staging Folder Alias	New Files to Copy
<dbs_stage></dbs_stage>	CREATE_APPLICATION_LOGIN_logger.sql
	CREATE_APPLICATION_ROLE_vw_logging.sql
	CREATE_DB_EMR_UTIL.sql
	CREATE_TABLE_Log4net1.sql
	CREATE_TABLE_Log4net1_index.sql
	CREATE_TABLE_Log4net2.sql

### 3 Setting up the Second Database Server

The secondary VistAWeb database server, on VAAUSNVWSQL201, will now be used to capture and retain the application error logs. VistAWeb uses a logging framework called Log4net, similar to Log4j in the Java world, to manage code level logging events. Before installation of VistAWeb version 16.1, all logging was captured in the LoggerTable table and the BiggerLogger table in the VAAUSNVWSQL200 database server. With installation of VistAWeb version 16.1.2, all of this logging will now be captured in two tables called Log4net1 and Log4net2 in the VAAUSNVWSQL201 server.

The following scripts will allow an administrator to create a new database called EMR\_UTIL, two new tables called Log4net1 and Log4net2, one new index for the Log4net1 table, an application role with table WRITE rights for the two new tables, and an application login that uses the application role.

### 3.1 Scripted Setup of SQL Server on VAAUSNVWSQL201

### 3.1.1 Establish Database

Execute the following script on the server, called CREATE\_DB\_EMR\_UTIL.sql in the <DBS\_STAGE> folder. It creates a database called EMR\_UTIL.

```
USE [master]
GO
CREATE DATABASE [EMR UTIL] ON PRIMARY
( NAME = N'EMR UTIL', FILENAME = N'D:\SQLData\EMR UTIL.mdf', SIZE = 3072KB,
MAXSIZE = UNLIMITED, FILEGROWTH = 10\%)
LOG ON
( NAME = N'EMR_UTIL_log', FILENAME = N'L:\SQLLogs\EMR_UTIL_log.ldf', SIZE = 4224KB,
MAXSIZE = 2048GB , FILEGROWTH = 10%)
GO
ALTER DATABASE [EMR UTIL] SET COMPATIBILITY LEVEL = 100
GO
IF (1 = FULLTEXTSERVICEPROPERTY ('IsFullTextInstalled'))
begin
EXEC [EMR UTIL]. [dbo]. [sp fulltext database] @action = 'enable'
end
GO
ALTER DATABASE [EMR UTIL] SET ANSI NULL DEFAULT OFF
GO
ALTER DATABASE [EMR UTIL] SET ANSI NULLS OFF
GO
ALTER DATABASE [EMR UTIL] SET ANSI PADDING OFF
GO
ALTER DATABASE [EMR UTIL] SET ANSI WARNINGS OFF
GO
```

ALTER DATABASE [EMR UTIL] SET ARITHABORT OFF GO ALTER DATABASE [EMR UTIL] SET AUTO CLOSE OFF GO ALTER DATABASE [EMR UTIL] SET AUTO CREATE STATISTICS ON GO ALTER DATABASE [EMR UTIL] SET AUTO SHRINK OFF GO ALTER DATABASE [EMR UTIL] SET AUTO UPDATE STATISTICS ON GO ALTER DATABASE [EMR UTIL] SET CURSOR CLOSE ON COMMIT OFF GO ALTER DATABASE [EMR UTIL] SET CURSOR DEFAULT GLOBAL GO ALTER DATABASE [EMR UTIL] SET CONCAT NULL YIELDS NULL OFF GO ALTER DATABASE [EMR UTIL] SET NUMERIC ROUNDABORT OFF GO ALTER DATABASE [EMR UTIL] SET QUOTED IDENTIFIER OFF GO ALTER DATABASE [EMR UTIL] SET RECURSIVE TRIGGERS OFF GO ALTER DATABASE [EMR UTIL] SET DISABLE BROKER GO ALTER DATABASE [EMR UTIL] SET AUTO UPDATE STATISTICS ASYNC OFF GO ALTER DATABASE [EMR UTIL] SET DATE CORRELATION OPTIMIZATION OFF GO ALTER DATABASE [EMR UTIL] SET TRUSTWORTHY OFF GO ALTER DATABASE [EMR UTIL] SET ALLOW SNAPSHOT ISOLATION OFF GO ALTER DATABASE [EMR UTIL] SET PARAMETERIZATION SIMPLE GO ALTER DATABASE [EMR UTIL] SET READ COMMITTED SNAPSHOT OFF GO ALTER DATABASE [EMR UTIL] SET HONOR BROKER PRIORITY OFF GO ALTER DATABASE [EMR UTIL] SET READ WRITE GO ALTER DATABASE [EMR UTIL] SET RECOVERY FULL GO ALTER DATABASE [EMR UTIL] SET MULTI USER GO ALTER DATABASE [EMR UTIL] SET PAGE VERIFY CHECKSUM GO ALTER DATABASE [EMR UTIL] SET DB CHAINING OFF GO

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		ALTER DATABASE [EMR UTIL] SET AUTO UPDATE STATIS	TICS ASYNC OFF	<u> </u>	Current connection parameters	
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Figure 1: SQL Query 1.sql

### 3.1.2 Create Tables

Execute the following scripts on the server to create the tables Log4net1 and Log4net2, called CREATE\_TABLE\_Log4net1.sql and CREATE\_TABLE\_Log4net2.sql from the <DBS\_STAGE> folder.

```
USE [EMR_UTIL]
GO
CREATE TABLE [dbo].[Log4net1] (
      [Id] [int] IDENTITY (1, 1) NOT NULL,
      [Date] [datetime] NOT NULL,
      [Thread] [varchar] (255) NOT NULL,
      [Level] [varchar] (50) NOT NULL,
      [Logger] [varchar] (255) NOT NULL,
      [Message] [varchar] (4000) NOT NULL,
      [Exception] [varchar] (2000) NULL
)
USE [EMR UTIL]
GO
CREATE TABLE [dbo].[Log4net2](
     [Id] [int] IDENTITY(1,1) NOT NULL,
      [Date] [datetime] NOT NULL,
      [Thread] [varchar] (255) NOT NULL,
      [Level] [varchar](50) NOT NULL,
      [Logger] [varchar] (255) NOT NULL,
      [Message] [text] NULL,
```

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	<u> </u>			The name of the connection.	
	Query executed successfully.	VAAUSNVWSQL821 (10.50 SP1) VAAUSTIN(vhaislmonsos EMR_UTIL 0	0:00:00 0 rows		

Figure 2: SQL Query2 .sql

### 3.1.3 Create Index

Execute the following script on the server to create an index for the Log4net1 table, called CREATE\_TABLE\_Log4net1\_index.sql from the <DBS\_STAGE> folder.

[Exception] [varchar] (2000) NULL

### 3.1.4 Create Database Application Role

Execute the following script on the server, which creates a database role called "vw\_logging", used by the VistAWeb applications (web apps). This script is called CREATE\_APPLICATION\_ROLE\_vw\_logging.sql in the <DBS\_STAGE> folder.

```
USE [EMR UTIL]
GO
CREATE ROLE [vw logging] AUTHORIZATION [dbo]
GO
use [EMR UTIL]
GO
GRANT INSERT ON [dbo].[Log4net1] TO [vw logging]
GO
use [EMR UTIL]
GO
GRANT REFERENCES ON [dbo].[Log4net1] TO [vw logging]
GO
use [EMR UTIL]
GO
GRANT INSERT ON [dbo].[Log4net2] TO [vw logging]
GO
use [EMR UTIL]
GO
GRANT REFERENCES ON [dbo].[Log4net2] TO [vw logging]
GO
```

### 3.1.5 Create Application Login

Execute the following script on the server. Before doing so, the person reading this text and executing the script must choose an application login name and application login password for this login and *substitute these values in the script below*. The password chosen must be at least 8 characters long, and contain at least one special character, one number, and one upper-case character. This script is called CREATE\_APPLICATION\_LOGIN\_logger.sql in the <DBS\_STAGE> folder.

```
USE [master]

GO

CREATE LOGIN [XXX_USER_NAME] WITH PASSWORD=N'XXX_LOGGING_PASSWORD',

DEFAULT_DATABASE=[EMR_UTIL], CHECK_EXPIRATION=OFF, CHECK_POLICY=ON

GO

USE [EMR_UTIL]

GO

CREATE USER [XXX_USER_NAME] FOR LOGIN [XXX_USER_NAME]

GO

USE [EMR_UTIL]

GO

EXEC sp_addrolemember N'vw_logging', N'XXX_USER_NAME'

GO
```

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	Connection state   Open	
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Figure 3: SQL Query 2.sql

### 3.2 Management of Log Tables on SQL Server on VAAUSNVWSQL201

In order to keep the log table Log4net2 in a manageable size, a script should be setup to execute daily, to keep the last 30 days of logging data. The script should execute the following query.

```
USE [EMR_UTIL]
GO
DELETE FROM Log4net1
WHERE DATE < dateadd(day, -30, current_timestamp)
GO
```

### 4 Installing the VistAWeb Software on the Web201 Server

This section decribes the installation of the Production (IOC) Web Server (vaausnvwweb201). This instance will be called the "IOC" instance.

**Note:** If this is the Prod install only, skip to Section 2.

### 4.1 Technical Background

When a single VistAWeb instance is installed on a single server, three web sites are created and one application (the root application) is created for each site. Each site has one or two application pools so the structure created on IIS in this case is as follows.

- 1. "vw" web site ("vw" app pool)
  - a. "vw" web app\*
- 2. "vwContext" web site ("vwContext" app pool)
  - a. "vwContext" web app\*
- 3. "vwMeans" web site ("vw\_default" app pool)
  - a. "vwEncrypt" web app ("vwEncrypt" app pool)

\*= The server won't show the web app name because it is integrated into the web site.

The reason the "vwMeans" web site contains an app with a different name, is because "vwMeans" is reserved to host more internal VistAWeb services in the future. You'll also note that there are four application pools for the arrangement above. This is because web application subordinates of "vwMeans" (in this case vwWencrypt) need their own respective application pools.

Since ASP.net applications can run side-by-side on the same server (even with different .Net frameworks), the VistAWeb install scripts are designed to create any number of VistAWeb instances on a single server. If multiple instances of VistAWeb are hosted on one server (different test versions, for example), each one of these instances is called a "named instance" of VistAWeb on the server. The name of the instance is used as a sort of name spacing convention for setting up the web applications and their application pools. In other words, the instance name is used as part of a naming convention which keeps the web applications and their application pools from colliding.

Here's an example of how the Prod instance of VistAWeb could be setup on a server.

1 "vw" web site ("vw\_default" app pool)

- b. "prod" web app ("vw\_prod" app pool)
- 4. "vwContext" web site ("vw\_default" app pool)
  - a. "prod" web app ("vwContext\_prod" app pool)
- 5. "vwMeans" web site ("vw\_default" app pool)
  - a. "prod" virtual directory

"vwEncrypt" web app ("vwEncrypt\_prod" app pool)

The VistAWeb install scripts can set up a single instance VistAWeb environment, or an environment containing multiple named VistAWeb instances.

### 1.1 Preparing Installation of the Prod (IOC) Web Server

There are two methods for installing VistAWeb on the Production IOC server (vaausnvwweb201). Only do the installation using one of the methods below.

- 1 Running the pre-completed install script (Install-IOC.ps1) and supplying minimul amount of parameters. This is discussed in detail in Section 4.3. Install Web Server Using Pre-Completed Command File. This is the recommended and preferred method to use for the installation as it is much easier, less tedious, and less error-prone.
- 6. Running the install script (Install-VistaWeb.ps1) and supplying the required parameters. This is discussed in detail in Section 4.4 Install Web Server Detailed Steps with Parameters.

### 1.1.1 Step 1: Retrieve the VistAWeb Release Package

1 Log in to the server where VistAWeb will be installed.

7. Copy the contents of the "\T1" folder from \\vaausnvwmul800\shares\NHIN\NHIN-Staging\NVW\PROD\v1617\T1 to d:\data\download\vistaweb\v1617\T1 folder.

### 1.1.1 Step 2: Unpack the Scripts

- 1 View the content of the vistaweb\_COMPLETE\_16.1.7.T1.4.30.2015.zip ZIP file by double-clicking it.
- 8. Highlight the ZIP file called Windows2008Setup.16.1.7.zip and right click and select "copy".
- 9. Click the "back" button on the file explorer window to go up a level, and then press <Ctrl>-V to paste the Windows2008Setup.16.1.7.zip folder. When this operation is complete, you should have two zip files in the d:\data\download\vistaweb\v1617\T1 folder, as shown in the figure below.

🕌 Т2				_	
🕒 🗢 🕌 🔹 Computer 👻 App (D:) 🔹 data 🔹	download + vistaweb +	v1612 - T2 -	👻 🛃	iearch T2	2
Organize 👻 Include in library 👻 Share with 🔹	<ul> <li>New folder</li> </ul>		:==	•	0
Name ^	Date modified	Туре	Size		
📄 Install-PreIoc	8/12/2013 1:29 PM	PS1 File	1 KB		
Install-PreProd	8/12/2013 1:49 PM	PS1 File	1 KB		
📄 vhasites_preprod_2_20_2013	5/2/2013 8:49 AM	XML Document	10 KB		
vistaweb_COMPLETE_16.1.2.T2.7.4.2013	7/4/2013 5:06 PM	Compressed (zippe	8,254 KB		
🌗 Windows2008Setup.16.1.2	7/4/2013 6:06 PM	Compressed (zippe	12 KB		
5 items					
5 items					_/_

#### Figure 4: d:\data\download\vistaweb\ folder

- 10. Unzip the **Windows2008Setup.16.1.7.zip** file in the current directory. Right-click the file and select "Extract All...", then in the "Extract Compressed (Zipped) Folders" dialog folder click the "Extract" button.
- 11. Next, move file 'Install-IOC' from /T1 folder to the new unzipped 'Windows2008Setup.16.1.7.zip' folder.

You should have this view when completed.



Figure 5: Extracting the Windows2008Setup ZIP File

### 1.1 Install Web Server Using Pre-completed Command File

As mentioned earlier, the easiest way to install the VistAWeb software on the Production (IOC) Web Server is to use a pre-completed command file, meaning a command file which invokes the install script with the values of the parameters already entered. We strongly recommend using this procedure in lieu of trying to enter parameters on the command line when executing Install-IOC.ps1.

Attention Windows System Administrator: Be sure to have the Database User ID and password before proceeding with either of the installations.

### 1.1.1 Step 3: Set Up the Powershell Execution Environment

- 1 Start up the Powershell command shell by clicking the blue icon on the Task bar. It is in the lower left corner of the window next to the start button.
- 12. Execute the command:

Set-Location D:\data\Download\vistaweb\v1617\T1\Windows2008Setup.16.1.7.zip

The following figure shows how the powershell command environment looks after the execution environment has been set up correctly.



Figure 6: Example PowerShell Command Execution Environment

#### 1.1.1 Step 4: Run the VistAWeb Delete Script

The procedure in this section will remove any prior instances of VistaWeb.

1 Run the script called Delete-vwInstance.ps1 without any parameters.

.\Delete-vwInstance.ps1 and press <Enter> to execute it.

### 1.1.1 Step 5: Run the VistAWeb install Script

The procedure in this section will prompt you to answer questions from table below at the command line.

1 On the Powershell command line, execute the following command:

```
.\Install-IOC.ps1 and press <Enter> to execute it.
```

You will be prompted for various input parameters. Enter the values from table below for each question.

## Table 4: Required Input Parameters by Install Script (post execution) for Prod(IOC)

Parameters Entered When the Script Runs		
Create a single installation of VistAWeb? (Enter 'Y' to continue)	Type Y and press <enter> when this prompt appears.</enter>	
Enter the VistAWeb application database user password:	Type in the database application user password and press <enter> (the screen will show *'s when the password is entered)</enter>	
Enter the VistAWeb logging database user password:	Type in the database logging user password (as created in section 3.1.5 of this document) and press <enter> (the screen will show *'s when the password is entered)</enter>	
vw IP address	10.224.80.66	
Site name for host header	Should be left blank	
Vw certificate number	Select certificate associated to "ioc.vistaweb.med.va.gov"	
vwContext port number	19989	
vwContext IP address	10.224.80.255	
Site name for host header	Should be left blank	
vwMeans port number	18988	
vwMeans IP address	10.224.81.0	
Site name for host header	Should be left blank	

- 13. Recycle IIS.
- 14. Once the install script has completed without errors you may verify the installation (i.e., the existence of the right web sites, web applications, and application pools as described in Section 4.1 Technical Background of this guide).

You have completed Section 4.3. If you need to install the Production server (vaausnvwweb200), proceed to Section 5. If not, you are done.

### 1.1 Web Server Installation Detailed Steps with Parameters

This script requires a number of parameters and it is necessary to provide them in a timely fashion (or the script will time out). This is not the recommended or preferred method for install the Production (IOC) Web Server, but can be used as an alternate method of installing the server, if necessary.

## Attention Windows System Administrator: Be sure to have the Database User ID and password before starting this section.

### 1.1.1 Step 3: Set Up the Powershell Execution Environment

- 1 Start up the Powershell command shell by clicking the blue icon on the Task bar. It is in the lower left corner of the window next to the start button.
- 15. Execute the command:

 $Set-Location \ D: \ data \ Download \ vista web \ v1617 \ T\ Windows 2008 \\ Setup. 16. 1.7. \\ zip \ data \ Vista \ Windows 2008 \\ Setup. 16. 1.7. \\ Zip \ Vista \ Vi$ 

The following figure shows how the powershell command environment looks after the execution environment has been set up correctly.



Figure 7: Example PowerShell Command Execution Environment

### 1.1.1 Step 4: Run the VistAWeb Delete Script

The procedure in this section is to remove any prior instances of VistaWeb.

1 Run the script called Delete-vwInstance.ps1 without any parameters.

.\Delete-vwInstance.ps1 and press <Enter> to execute it.

### 1.1.1 Step 5: Run the VistAWeb install Script (with parameters)

The procedure in this section asks you to enter each of the parameters required by the install script contained in the table below at the command line.

Parameter	Value
Script Parameters Entered	on the Command Line
-zipFile	D:\data\download\vistaweb\v1617\T1\vistaweb_COMPLETE_ 16.1.7.T1.4.30.2015.zip
-installTargetRoot	D:\data\vwinstall
-sitesFile	D:\data\download\vistaweb\v1617\T1\vhasites_preprod_2_10_ 2015.xml
-testInstance	Ν
-db_server	VAAUSNVWSQL200
-db_name	EMR
-db_userId	(Created when the EMR database was created and the role VW_APPLICATION script was installed in version 15.0.0 of VistAWeb)

Table 5: Parameters Rec	uired by Instal	Script (pre	execution) f	for Prod (	IOC)
	i an oa sy motan	. <b>Oonpt (pi o</b>			,

Parameter	Value
Script Parameters Entered	on the Command Line
-vistaSecPhrase	WE'RE HERE FOR VETS (Note; this parameter is case sensitive)
-awivSecPhrase	VISTA IMAGING AWIV (Note; this parameter is case sensitive)
-showVersion	Ν
-db_server_logging	VAAUSNVWSQL201
-db_name_logging	EMR_UTIL
-db_userId_logging	(Created when the EMR_UTIL database was created via script in section 3.1.5)

1 On the Powershell command line, execute the following command:

.\Install-VistaWeb.ps1 -zipFile ''D:\data\Download\vistaweb\
v1617\T1\vistaweb\_COMPLETE\_16.1.7.T1.4.30.2015.zip'' installTargetRoot ''D:\data\vwInstall'' -sitesFile ''D:\data\Download\vistaweb\
v1617\T1\vhasites\_preprod\_2\_10\_2015.xml'' -testInstance ''N'' -db\_server
''vaausnvwsql200'' -db\_name ''EMR'' -db\_userId ''xxxxxx'' -vistaSecPhrase
''WE'RE HERE FOR VETS'' -awivSecPhrase ''VISTA IMAGIN AWIV'' showVersion ''N'' -db\_server\_logging ''vaausnvwsql201'' -db\_name\_logging
''EMR\_UTIL'' -db\_userId\_logging ''xxxxx''

#### Note:

- Each parameter **value** should be enclosed in double quotes.
- The two database user names should be changed from "xxxxx" to the actual values.
- The parameters can be put on the command line in any order.

You will be prompted for various input parameters. Enter the values from table below for each question.

## Table 6: Required Input Parameters by Install Script (post execution) for Prod(IOC)

Parameters Entered When the	Parameters Entered When the Script Runs		
Create a single installation of VistAWeb? (Enter 'Y' to continue)	Type Y and press <enter> when this prompt appears.</enter>		
Enter the VistAWeb application	Type in the database application user password and press		
database user password:	<enter> (the screen will show *'s when the password is entered)</enter>		
Enter the VistAWeb logging	Type in the database logging user password (as created in		
database user password:	section 3.1.5 of this document) and press <enter> (the</enter>		
	screen will show *'s when the password is entered)		
vw IP address	10.224.80.66		
Site name for host header	Should be left blank		
Vw certificate number	Select certificate associated to "ioc.vistaweb.med.va.gov"		
vwContext port number	19989		
vwContext IP address	10.224.80.255		

Parameters Entered When the Script Runs	
Site name for host header	Should be left blank
vwMeans port number	18988
vwMeans IP address	10.224.81.0
Site name for host header	Should be left blank

16. Recycle IIS.

17. Once the install script has completed without errors you may verify the installation (i.e., the existence of the right web sites, web applications, and application pools as described in Section 4.1 - Technical Background of this guide).

### 2 Installing the VistAWeb Software on the Web200 Server

This section describes the installation of the Production Web Server (vaausnvwweb200).

### 2.1 Preparing the Installation of the Prod Web Server

There are two methods for installing VistAWeb on the Production server (vaausnvwweb200). Only do the installation using one of the methods below.

- 1 Running the pre-completed install script (Install-Prod.ps1) and supplying minimal amount of parameters. This is discussed in detail in Section 5.2. Install Web Server Using Pre-Completed Command File. This is the recommended and preferred method to use for the installation as it is much easier, less tedious, and less error-prone.
- 18. Running the install script (Install-VistaWeb.ps1) and supplying the required parameters. This is discussed in detail in Section 5.3 Install Web Server Detailed Steps with Parameters.

### 1.1.1 Step 1: Retrieve the VistAWeb Release Package

- 1 Log in to the server where VistAWeb will be installed.
- 19. Copy the contents of the "\T1" folder from \\vaausnvwmul800\shares\NHIN\NHIN-Staging\NVW\PROD\v1617\T1 to D:\data\Download\vistaweb\v1617\T1 folder.

### 1.1.1 Step 2: Unpack the Scripts

- 1 View the content of the vistaweb\_COMPLETE\_16.1.7.T1.4.30.2015.zip ZIP file by doubleclicking it.
- 20. Highlight the ZIP file called **Windows2008Setup.16.1.7.zip** and right click and select "copy".
- 21. Click the "back" button on the file explorer window to go up a level, and then press <Ctrl>-V to paste the Windows2008Setup.16.1.7.zip folder. When this operation is complete, you should have two zip files in the D:\data\Download\vistaweb\v1617\ folder, as shown in the figure below.

퉱 T2				_	
🕒 🗢 🖓 🔸 Computer 🕶 App (D:) 🕶 data 🕶	download + vistaweb +	v1612 - T2 -	- 🛃 🔄	Search T2	2
Organize 👻 Include in library 👻 Share with 🔹	<ul> <li>New folder</li> </ul>			-	(?)
Name ^	Date modified	Туре	Size		
📄 Install-PreIoc	8/12/2013 1:29 PM	PS1 File	1 KB		
Install-PreProd	8/12/2013 1:49 PM	PS1 File	1 KB		
rhasites_preprod_2_20_2013	5/2/2013 8:49 AM	XML Document	10 KB		
vistaweb_COMPLETE_16.1.2.T2.7.4.2013	7/4/2013 5:06 PM	Compressed (zippe	8,254 KB		
🌗 Windows2008Setup.16.1.2	7/4/2013 6:06 PM	Compressed (zippe	12 KB		
5 items					
5 items					- //.

Figure 8: D:\data\Download\vistaweb\v1617\T1 folder

- 22. Unzip the **Windows2008Setup.16.1.7.zip** ZIP file in the current directory. Right-click the file and select "Extract All...", then in the "Extract Compressed (Zipped) Folders" dialog folder click the "Extract" button.
- 23. Next, move file 'Install-Prod' from / folder to the new unzipped 'Windows2008Setup.16.1.7.zip' folder.

You should have this view when completed.



Figure 9: Extracting the Windows2008Setup ZIP File

### 1.1 Install Web Server Using Pre-completed Command File

As mentioned earlier, the easiest way to install the VistAWeb software on the Production Web Server is to use a pre-completed command file, meaning a command file which invokes the install script with the values of the parameters already entered. We strongly recommend using this procedure in lieu of trying to enter parameters on the command line when executing Install-Prod.ps1.

Attention Windows System Administrator: Be sure to have the Database User ID and password before proceeding with either of the installations.

### 1.1.1 Step 3: Set Up the PowerShell Execution Environment

- 1 Start up the PowerShell command shell by clicking the blue icon on the Task bar. It is in the lower left corner of the window next to the start button.
- 24. Execute the command.

Set-Location D:\data\Download\vistaweb\v1617\T1\Windows2008Setup.16.1.7.zip

The following figure shows how the PowerShell command environment looks after the execution environment has been set up correctly.



Figure 10: Example PowerShell Command Execution Environment

#### 1.1.1 Step 4: Run the VistAWeb Delete Script

The procedure in this section will remove any prior instances of VistaWeb.

1 Run the script called Delete-vwInstance.ps1 without any parameters.

.\Delete-vwInstance.ps1 and press <Enter> to execute it.

### 1.1.1 Step 5: Run the VistAWeb install Script

The procedure in this section will prompt you to answer questions from the table below at the command line.

1 On the PowerShell command line, execute the following command:

.\Install-Prod.ps1 and press <Enter> to execute it.

You will be prompted for various input parameters. Enter the values from table below for each question.

Table 7: Required Input Parameters b	y Install Script (post execution) f	or Prod
--------------------------------------	-------------------------------------	---------

Parameters Entered When the Script Runs		
Create a single installation of	Type Y and press <enter> when this prompt appears.</enter>	
VistAWeb? (Enter Y to continue)		
Enter the VistAWeb application	Type in the database application user password and	
database user password:	press <enter> (the screen will show *'s when the</enter>	
	password is entered)	
Enter the VistAWeb logging	Type in the database logging user password (as created	
database user password:	in section 3.1.5 of this document) and press <enter> (the</enter>	
	screen will show *'s when the password is entered)	
vw IP address	10.224.81.236	
Site name for host header	Should be left blank	
Vw certificate number	Select certificate associated to "prod"	
vwContext port number	19985	
vwContext IP address	10.224.81.237	
Site name for host header	Should be left blank	
vwMeans port number	18988	
vwMeans IP address	10.224.81.238	
Site name for host header	Should be left blank	

25. Recycle IIS.

26. Once the install script has completed without errors you may verify the installation (i.e., the existence of the right web sites, web applications, and application pools as described in Section 4.1 - Technical Background of this guide).

Note: Windows System Administrator: After the installation has completed, do the following.

- a. Edit the D:\data\vwinstall\vw\resources\xml\LOG4NET.xml file by adding a blank link to the end of the file.
- b. Run the automated script,
- c. Ensure logging is occurring on the Introscope Monitoring graph.

You have completed Section 5.2. You are done.

### **1.1 Web Server Installation Detailed Steps with Parameters**

This script requires a number of parameters and it is necessary to provide them in a timely fashion (or the script will time out). This is not the recommended or preferred method for install the Production Web Server, but can be used as an alternate method of installing the server, if necessary.

Attention Windows System Administrator: Be sure to have the Database User ID and password before starting this section.

### 1.1.1 Step 3: Set Up the PowerShell Execution Environment

1 Start up the PowerShell command shell by clicking the blue icon on the Task bar. It is in the lower left corner of the window next to the start button.

#### 27. Execute the command.

 $Set-Location D: \ box{local} vistaweb \ v1617 \ T1 \ windows 2008 \\ Setup. 16.1.7. \\ zip \ box{local} vistaweb \ v1617 \ v16$ 

The following figure shows how the PowerShell command environment looks after the execution environment has been set up correctly.



Figure 11: Example PowerShell Command Execution Environment

### 1.1.1 Step 4: Run the VistAWeb Delete Script

The procedure in this section is to remove any prior instances of VistaWeb.

1 Run the script called Delete-vwInstance.ps1 without any parameters.

.\Delete-vwInstance.ps1 and press <Enter> to execute it.

### 1.1.1 Step 5: Run the VistAWeb install Script (with parameters)

The procedure in this section asks you to enter each of the parameters required by the install script contained in the table below at the command line.

Parameter	Value		
Script Parameters Entered	Script Parameters Entered on the Command Line		
-zipFile	D:\data\Download\vistaweb\v1617\T1\vistaweb_COMPLETE_ 16.1.7.T1.4.30.2015.zip		
-installTargetRoot	D:\data\vwinstall		
-sitesFile	D:\data\Download\vistaweb\v1617\T1\vhasites_prod_2_13_20 15.xml		
-testInstance	Ν		
-db_server	VAAUSNVWSQL200		
-db_name	EMR		

Table 8: Parameters Required by Install Script (pre execution) for Prod

Parameter	Value
Script Parameters Entered	d on the Command Line
-db_userId	(Created when the EMR database was created and the role VW_APPLICATION script was installed in version 15.0.0 of VistAWeb)
-vistaSecPhrase	WE'RE HERE FOR VETS (Note; this parameter is case sensitive)
-awivSecPhrase	VISTA IMAGING AWIV (Note; this parameter is case sensitive)
-showVersion	Ν
-db_server_logging	VAAUSNVWSQL201
-db_name_logging	EMR_UTIL
-db_userId_logging	(Created when the EMR_UTIL database was created via script in section 3.1.5)

1 On the PowerShell command line, execute the following command:

```
.\Install-VistaWeb.ps1 -zipFile
"D:\data\Download\vistaweb\v1617\T1\vistaweb COMPLETE 16.1.7.T
1.4.30.2015.zip" -installTargetRoot "D:\data\vwInstall" -
sitesFile
"D:\data\Download\vistaweb\v1617\T1\vhasites prod 2 13 2015.xm
l" -testInstance "N" -db_server "vaausnvwsql200" -db_name
"EMR" -db userId "xxxxxx" -vistaSecPhrase "WE'RE HERE FOR
VETS" -awivSecPhrase "VISTA IMAGING AWIV" -showVersion "N" -
db server logging "vaausnvwsql201" -db name logging "EMR UTIL"
-db userId logging "xxxxxx"
```

### Note:

- Each parameter **value** should be enclosed in double quotes.
- The two database user names should be changed from "xxxxxx" to the actual values. 0
- The parameters can be put on the command line in any order. 0

You will be prompted for various input parameters. Enter the values from table below for each question.

Table 9: Required Input Parameters by Install Script (post execution) for Prod	
Parameters Entered When the Script Runs	
Create a single installation of VistAWeb? (Enter 'Y' to continue)	Type Y and press <enter> when this prompt appears.</enter>
Enter the VistAWeb application database user password:	Type in the database application user password and press <enter> (the screen will show *'s when the password is entered)</enter>
Enter the VistAWeb logging database user password:	Type in the database logging user password (as created in section 3.1.5 of this document) and press <enter> (the screen will show *'s when the password is entered)</enter>
vw IP address	10.224.81.236

Parameters Entered When the Script Runs	
Site name for host header	Should be left blank
Vw certificate number	Select certificate associated to "vistaweb.med.va.gov"
vwContext port number	19985
vwContext IP address	10.224.81.237
Site name for host header	Should be left blank
vwMeans port number	18988
vwMeans IP address	10.224.81.238
Site name for host header	Should be left blank

2 Recycle IIS.

28. Once the install script has completed without errors you may verify the installation (i.e., the existence of the right web sites, web applications, and application pools as described in Section 4.1 - Technical Background of this guide).

Note: Windows System Administrator: After the installation has completed, do the following.

- 1 Edit the D:datavwinstallvwresourcesxmlLOG4NET.xml file by adding a blank line to the end of the file.
- 29. Run the automated script,
- 30. Ensure logging is occurring on the Introscope Monitoring graph.

## 2 Backout Plan

The rollback of the Server to its original configuration before the VistAWeb install can be accomplished in two different methods. If the snapshot is available and untouched you can restore the snapshot back to the original configuration and begin the install again. If this is not available you can also delete the lower directory you created (D:\data\vwinstall) when you installed the application and begin again. To rollback a snapshot you are constrained to the two week time period that the snapshot is held. This installation is estimated to be complete within a one hour period. If due to unforeseen circumstances this installation takes more than four hours without any progress the AITC Project Manager will be asked to continue the operation or to roll back to the bare metal configuration. Many of the updates and changes that are required for the VistAWeb application are scripted and included with the zip file that is used for the original build. So the current procedure is to use those scripts to modify or change the application and the determining factor to remove the application is usually to change to a new version.

## **3 Scripts**

### 3.1 Script for Production Installation

Install-Prod.ps1

```
.\Install-VistaWeb.ps1 -zipFile
"D:\data\Download\vistaweb\v1617\T1\vistaweb_COMPLETE_16.1.7.T1.
4.30.2015.zip" -installTargetRoot "D:\data\vwInstall" -sitesFile
"D:\data\Download\vistaweb\v1617\T1\vhasites_prod_2_13_2015.xml"
-testInstance "N" -db_server "vaausnvwsql200" -db_name "EMR" -
db_userId "xxxxxx" -vistaSecPhrase "WE'RE HERE FOR VETS" -
awivSecPhrase "VISTA IMAGING AWIV" -showVersion "N" -
db_server_logging "vaausnvwsql201" -db_name_logging "EMR_UTIL" -
db_userId_logging "xxxxx"
```

### 3.2 Script for IOC Installation

Install-Ioc.ps1

```
.\Install-VistaWeb.ps1 -zipFile
"D:\data\Download\vistaweb\v1617\T1\vistaweb_COMPLETE_16.1.7.T1.
4.30.2015.zip" -installTargetRoot "D:\data\vwInstall" -sitesFile
"D:\data\Download\vistaweb\v1617\T1\vhasites_preprod_2_10_2015.x
ml" -testInstance "N" -db_server "vaausnvwsql200" -db_name "EMR"
-db_userId "xxxxxx" -vistaSecPhrase "WE'RE HERE FOR VETS" -
awivSecPhrase "VISTA IMAGING AWIV" -showVersion "N" -
db_server_logging "vaausnvwsql201" -db_name_logging "EMR_UTIL" -
db_userId_logging "xxxxx"
```