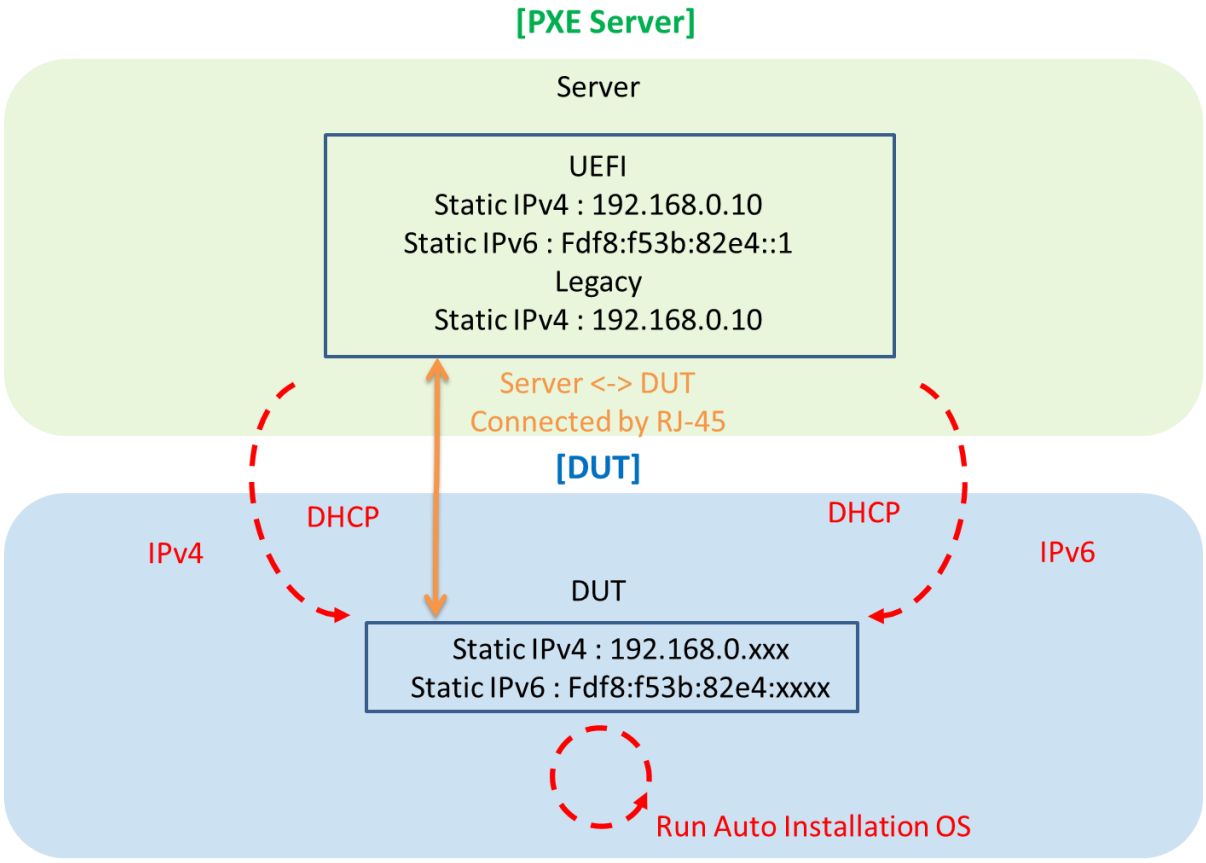
Auto Installation for Legacy and UEFI by PXE server (FULL)

Version 1.0

Version History

Version	Date	Handled by	Comments
V1.0	11-Nov-2019	ZL Chen	First version release.

System Structure:



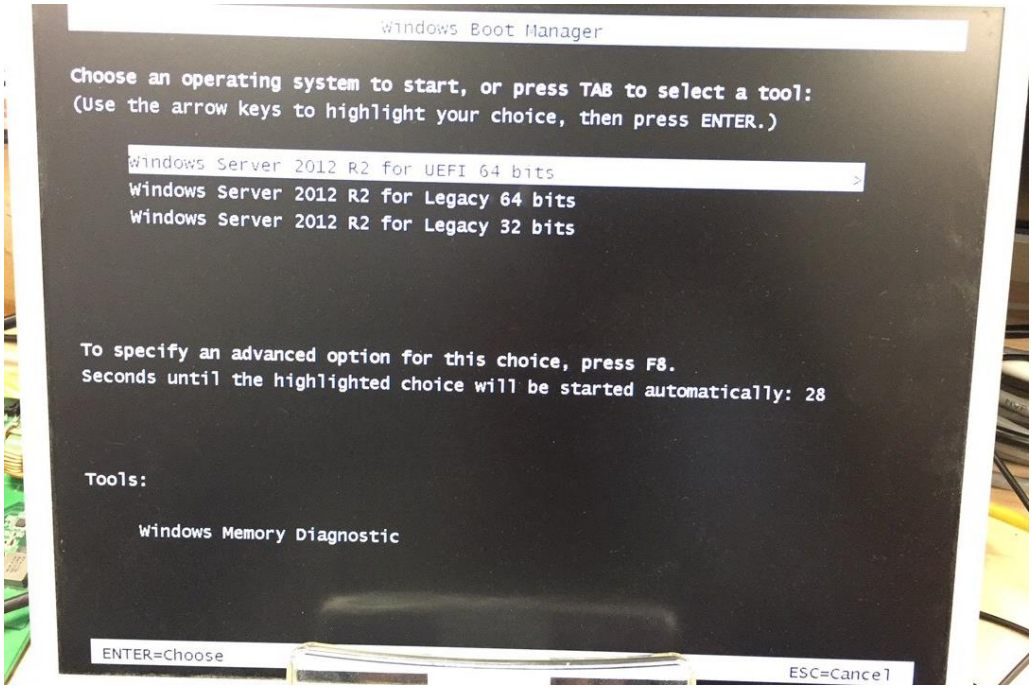
Precondition Setting:
Please make sure the DUT is connected with PXE Server.

Please follow the implement as below:

Step 1:

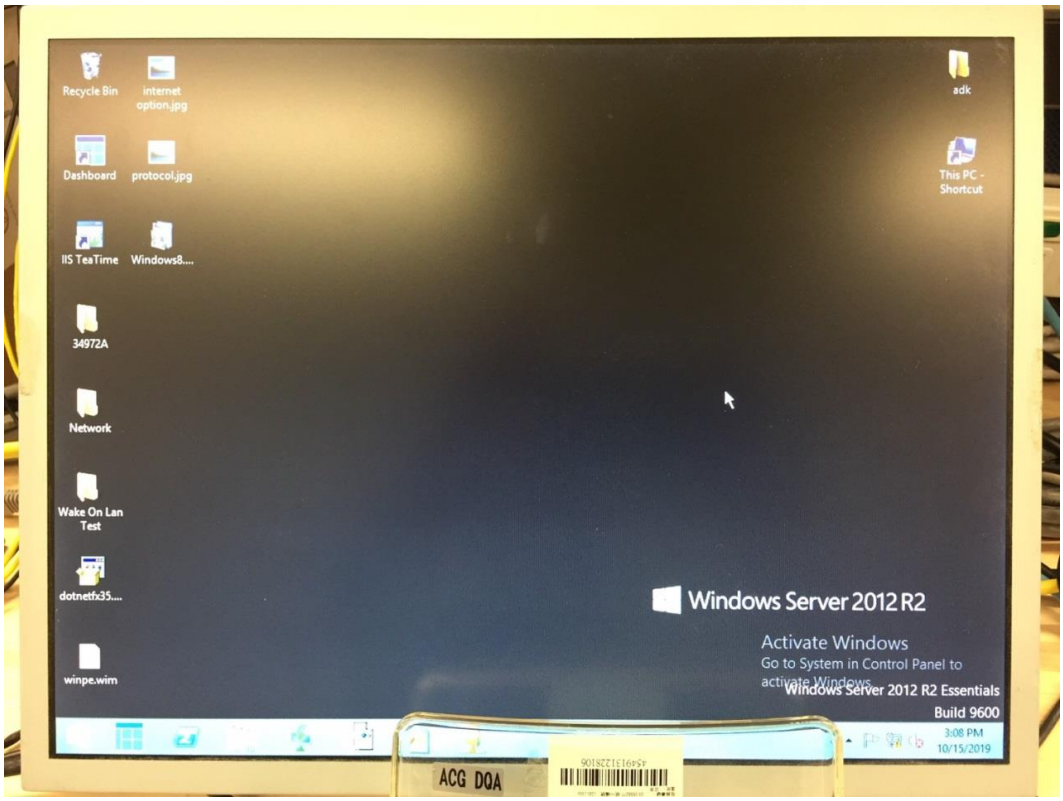
Launch the Windows Server 2012 R2, and select the server you want.

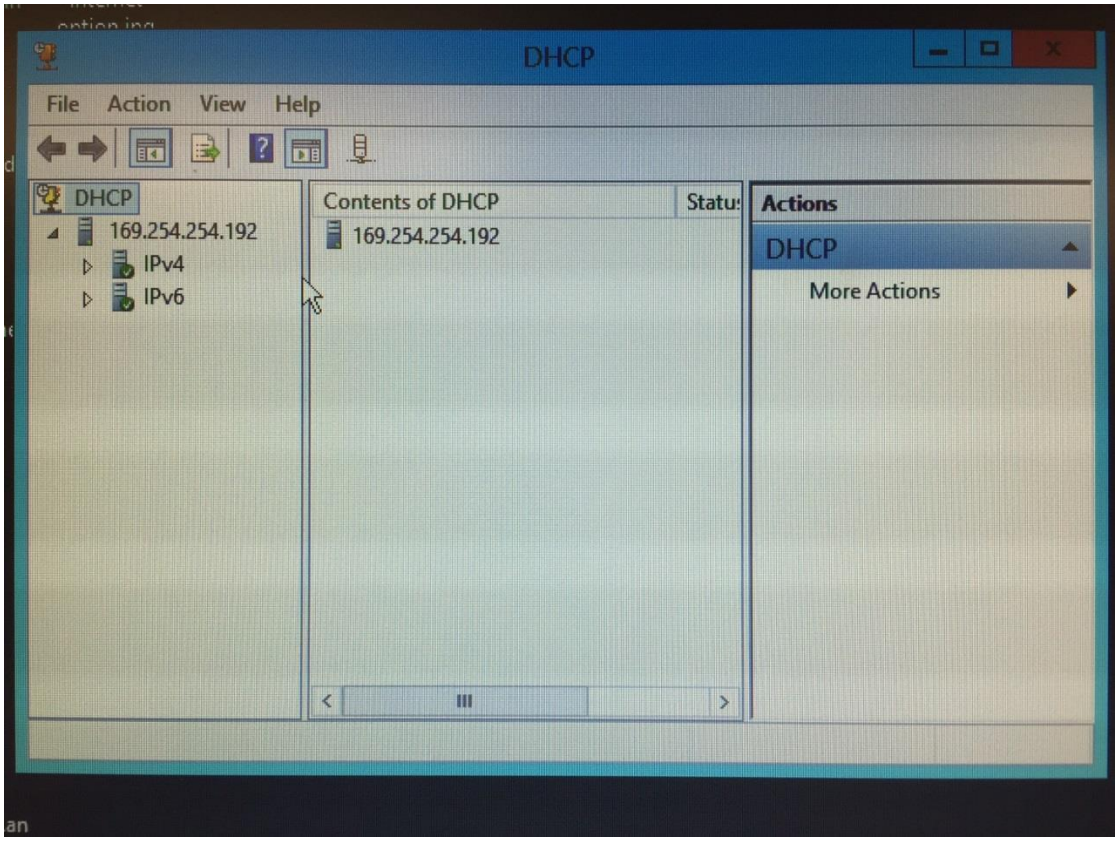
- Windows Server 2012 R2 for UEFI 64 bits
- Windows Server 2012 R2 for Legacy 64 bits
- Windows Server 2012 R2 for Legacy 32 bits



Windows Server 2012 R2	BIOS Setting
Windows Server 2012 R2 for Legacy 64 bits	Legacy
Windows Server 2012 R2 for Legacy 32 bits	Legacy
Windows Server 2012 R2 for UEFI 64 bits	UEFI
Windows Server 2012 R2 for UEFI 64 bits	UEFI

Please make sure the PXE server and DHCP server are launched.





Step 2:

Launched the DUT’s computer, and login to the BIOS.

Make sure the auto installation you want.

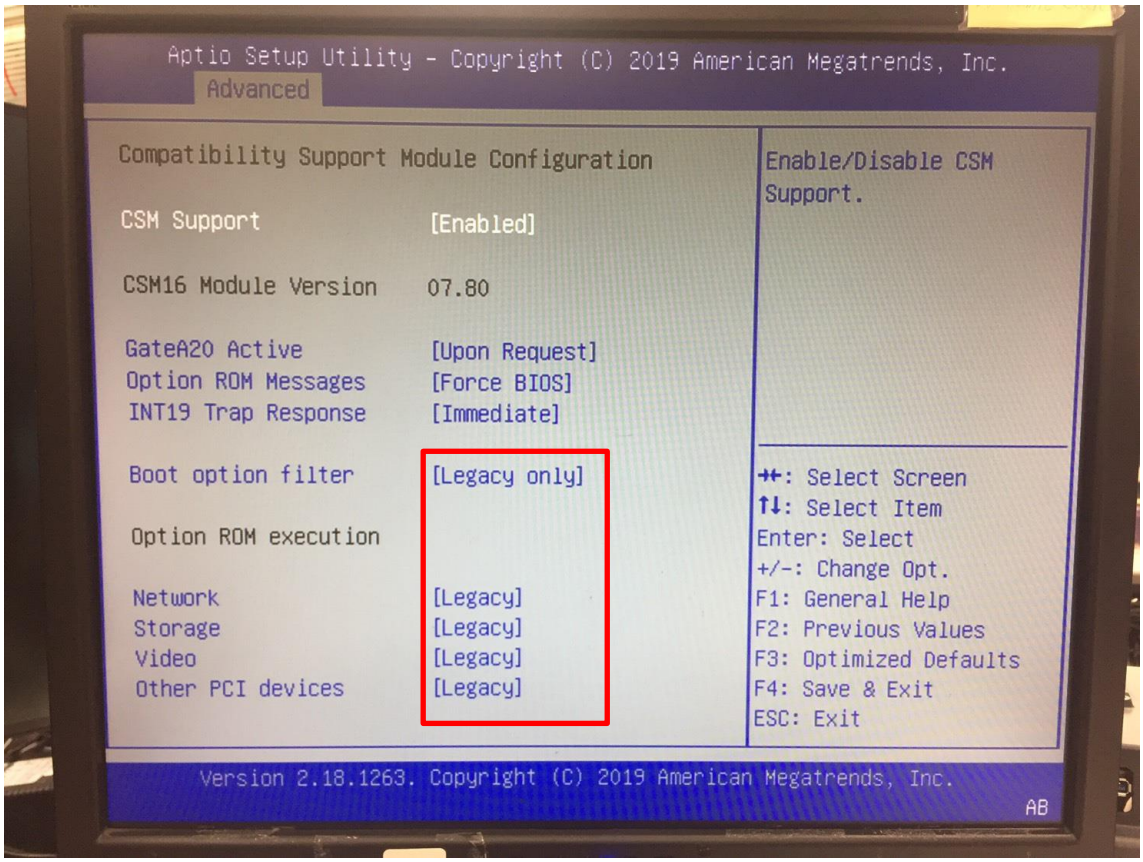
BIOS Setting	Auto Installation Operation System
Legacy	Windows 10 (64 bit)
Legacy	Windows 10 (32 bit)
UEFI	Windows 10 by IPv4 (64 bit)
UEFI	Windows 10 by IPv6 (64 bit)

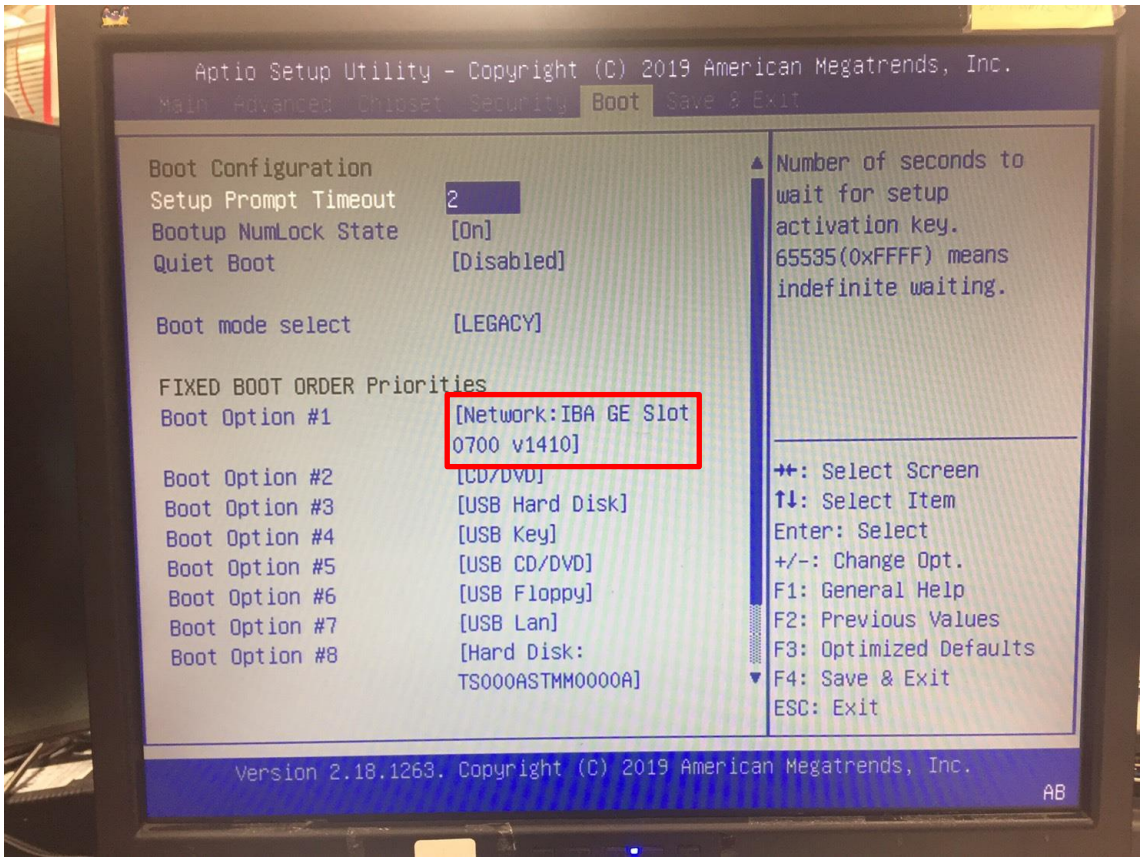
Please make sure the Auto Installation method as below:

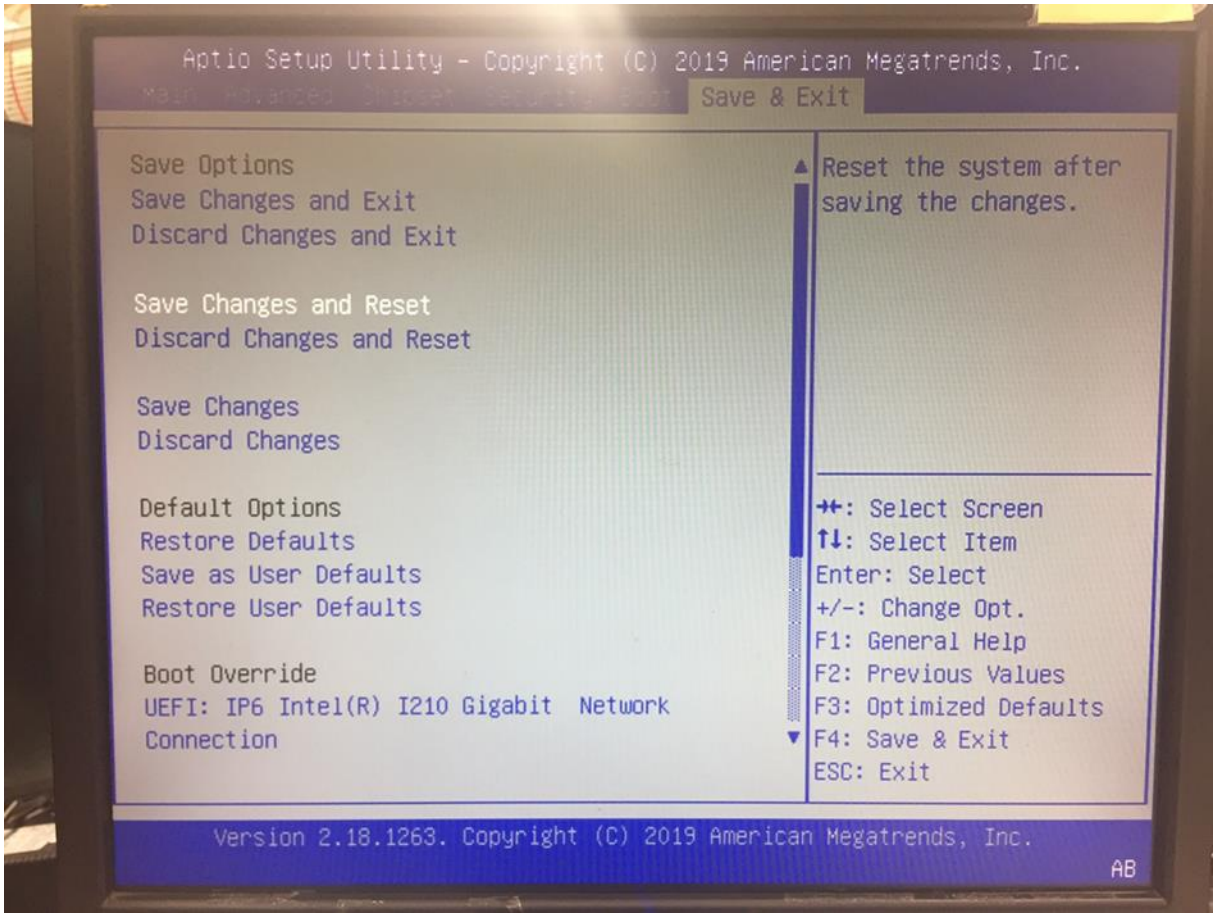
- Auto installation of Legacy base on Window 10 (64 bit).
- Auto installation of Legacy base on Window 10 (32 bit).
- Auto installation of UEFI base on Window 10 by IPv4 (64 bit).
- Auto installation of UEFI base on Window 10 by IPv6 (64 bit).

- Auto installation of Legacy base on Window 10 (64 bit).

Make sure the all of BIOS setting:






Aptio Setup Utility - Copyright (C) 2019 American Megatrends, Inc.
Save & Exit
Save Options
Save Changes and Exit
Discard Changes and Exit
Save Changes and Reset
Discard Changes and Reset
Save Changes
Discard Changes
Default Options
Restore Defaults
Save as User Defaults
Restore User Defaults
Boot Override
UEFI: IP6 Intel(R) I210 Gigabit Network Connection
Reset the system after saving the changes.
→←: Select Screen
↑↓: Select Item
Enter: Select
+/-: Change Opt.
F1: General Help
F2: Previous Values
F3: Optimized Defaults
F4: Save & Exit
ESC: Exit
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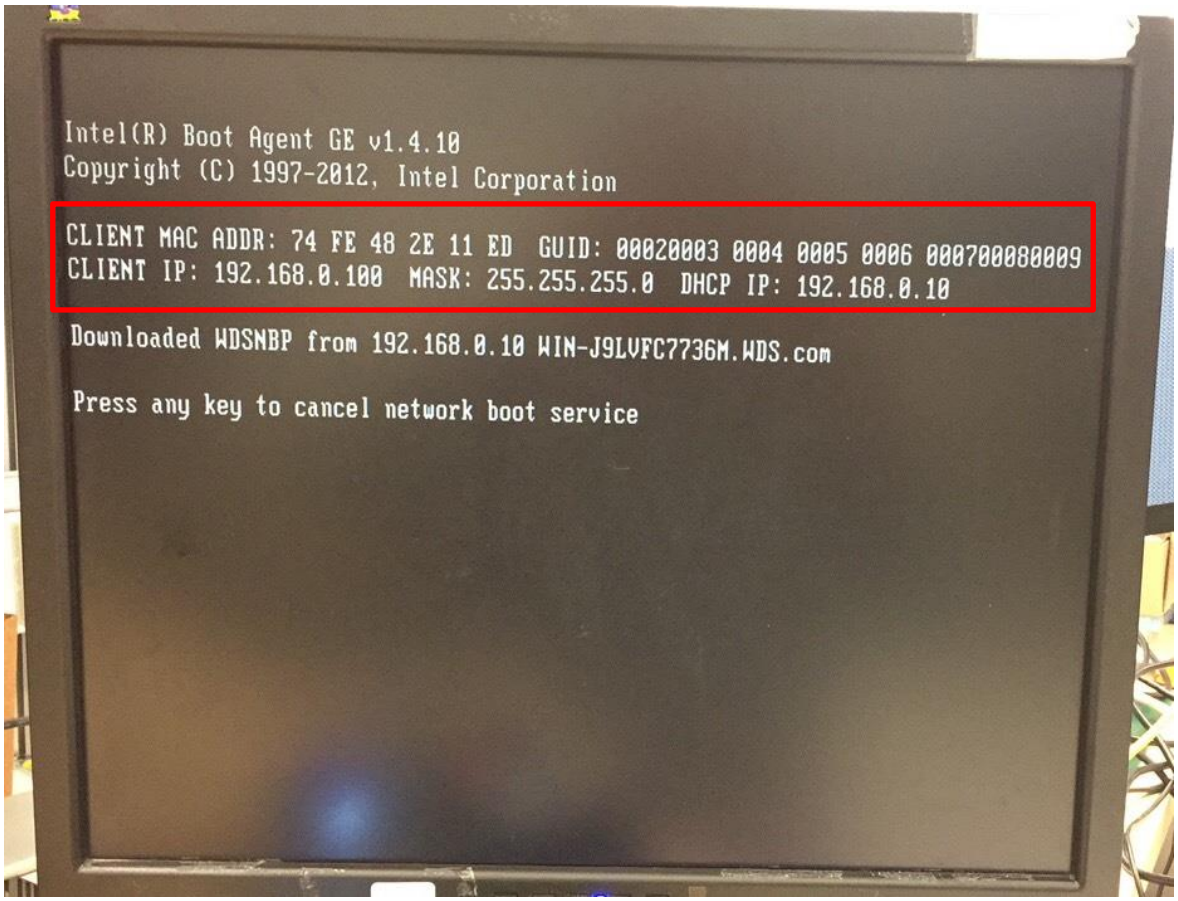
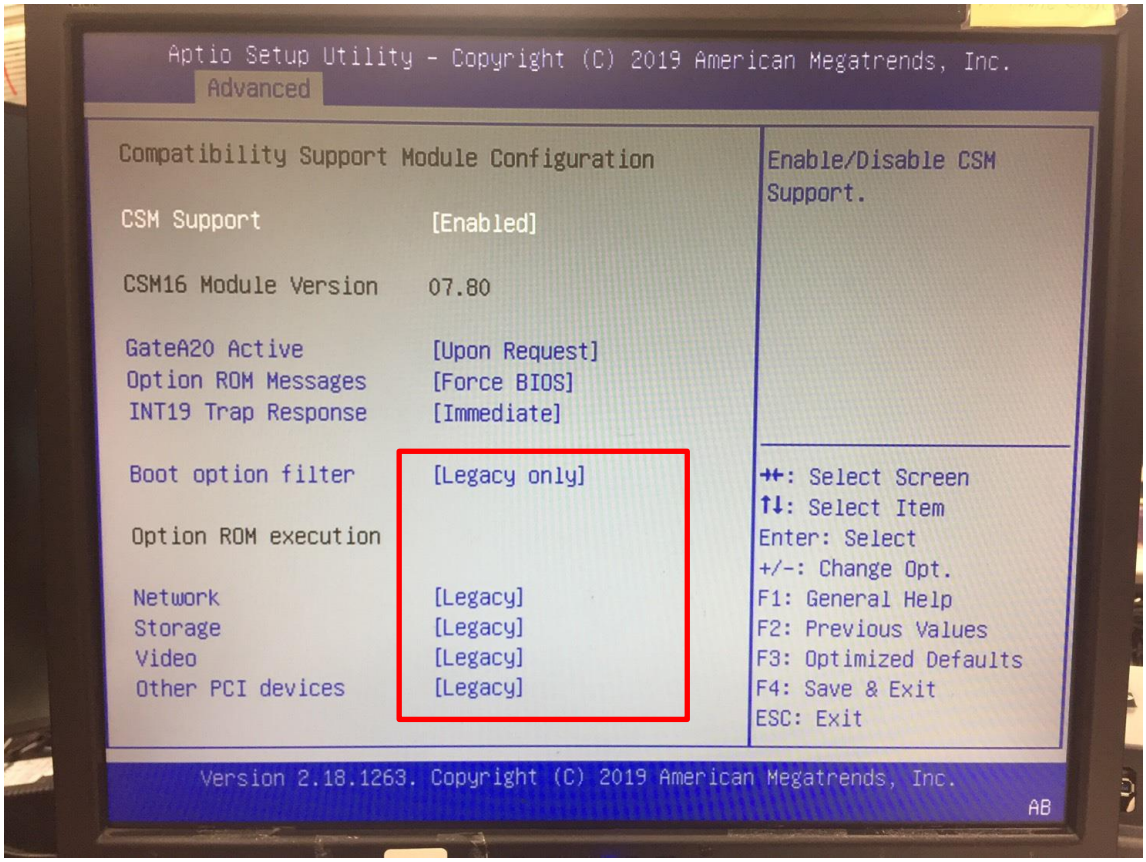
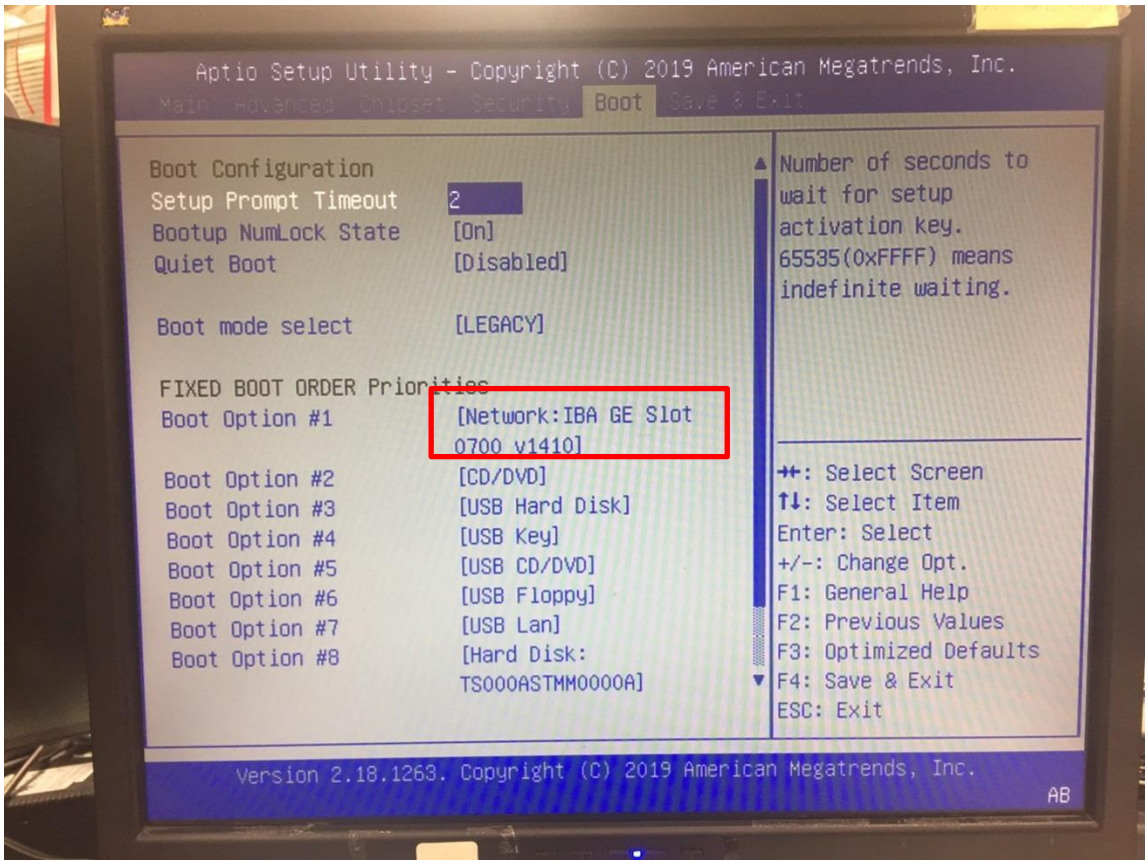
AB

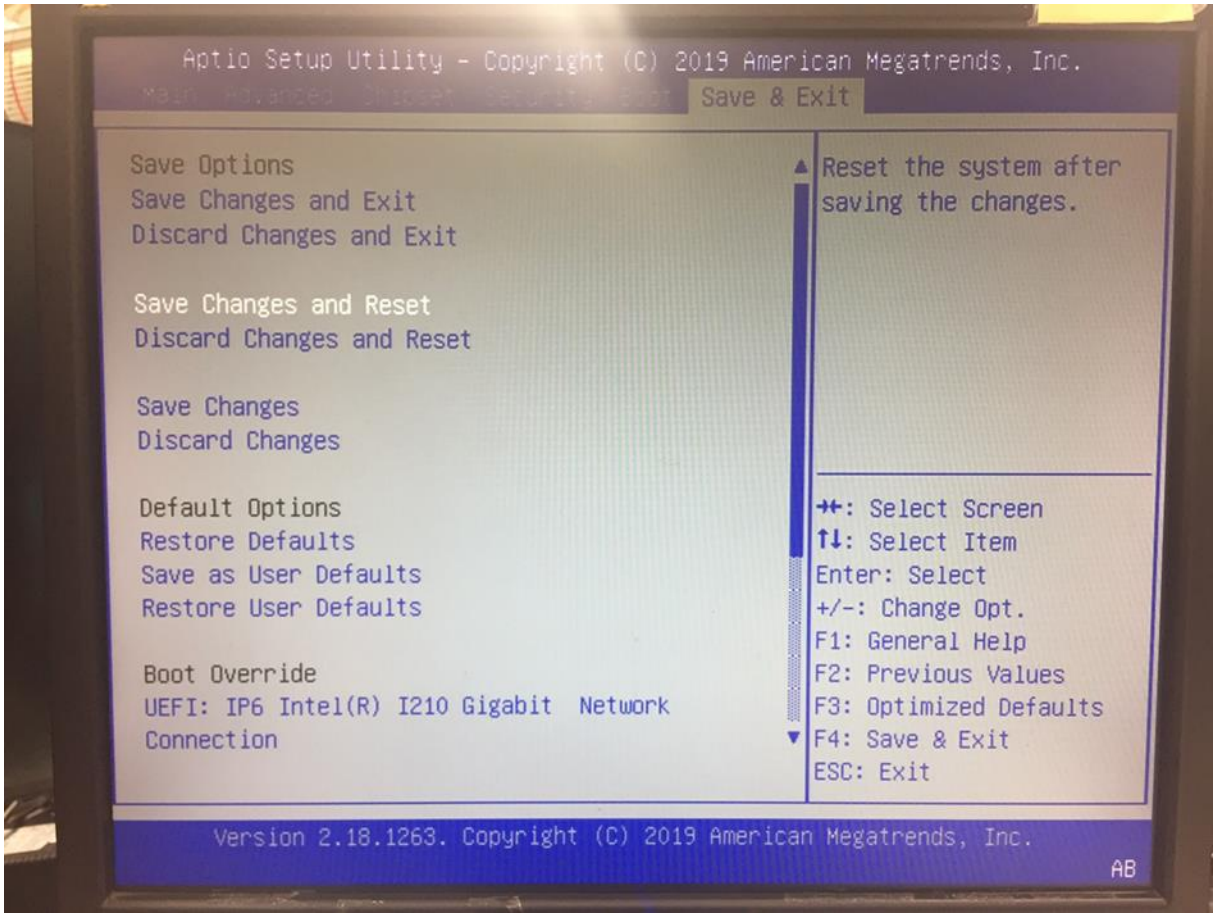

Intel(R) Boot Agent GE v1.4.10
Copyright (C) 1997-2012, Intel Corporation
CLIENT MAC ADDR: 74 FE 48 2E 11 ED GUID: 00020003 0004 0005 0006 000700080009
CLIENT IP: 192.168.0.100 MASK: 255.255.255.0 DHCP IP: 192.168.0.10
Downloaded WDSNBP from 192.168.0.10 WIN-J9LVFC7736M.WDS.com
Press any key to cancel network boot service

- Auto installation of Legacy base on Window 10 (32 bit).

Make sure the all of BIOS setting:






Aptio Setup Utility – Copyright (C) 2019 American Megatrends, Inc.
Save & Exit
Save Options
Save Changes and Exit
Discard Changes and Exit
Save Changes and Reset
Discard Changes and Reset
Save Changes
Discard Changes
Default Options
Restore Defaults
Save as User Defaults
Restore User Defaults
Boot Override
UEFI: IP6 Intel(R) I210 Gigabit Network Connection
Reset the system after saving the changes.
→←: Select Screen
↑↓: Select Item
Enter: Select
+/-: Change Opt.
F1: General Help
F2: Previous Values
F3: Optimized Defaults
F4: Save & Exit
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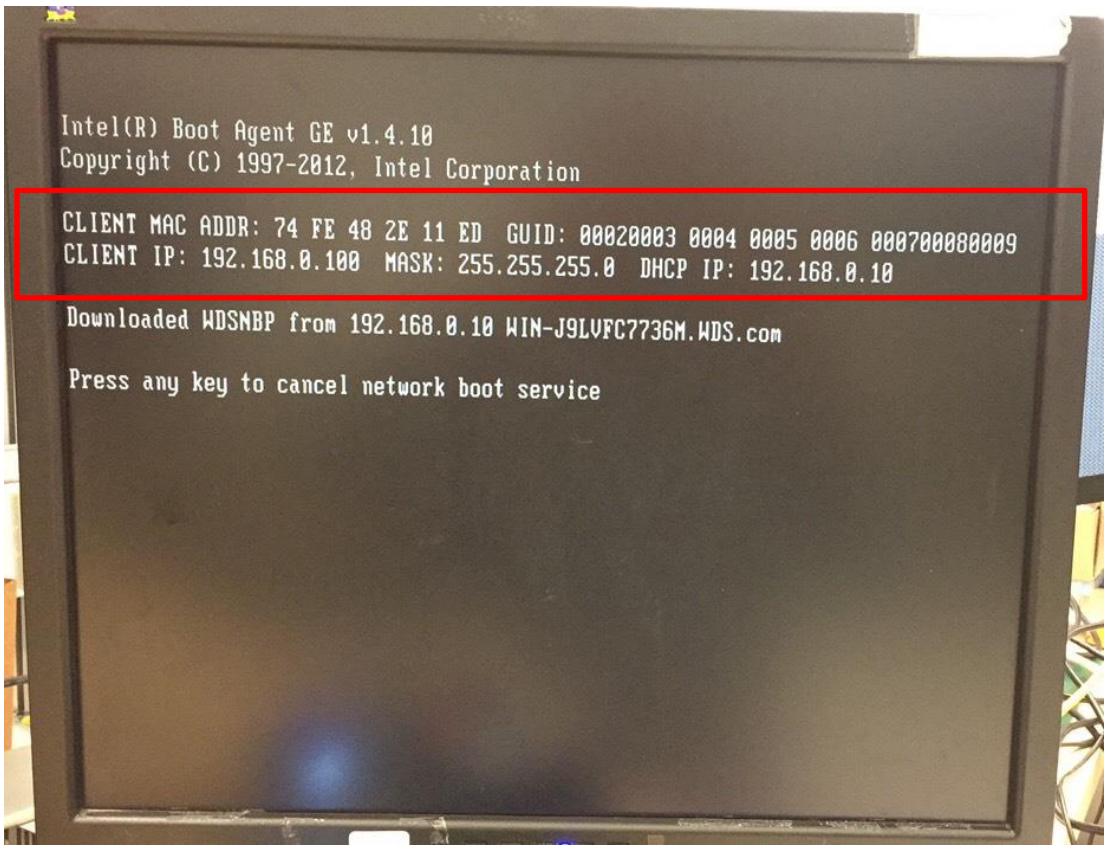
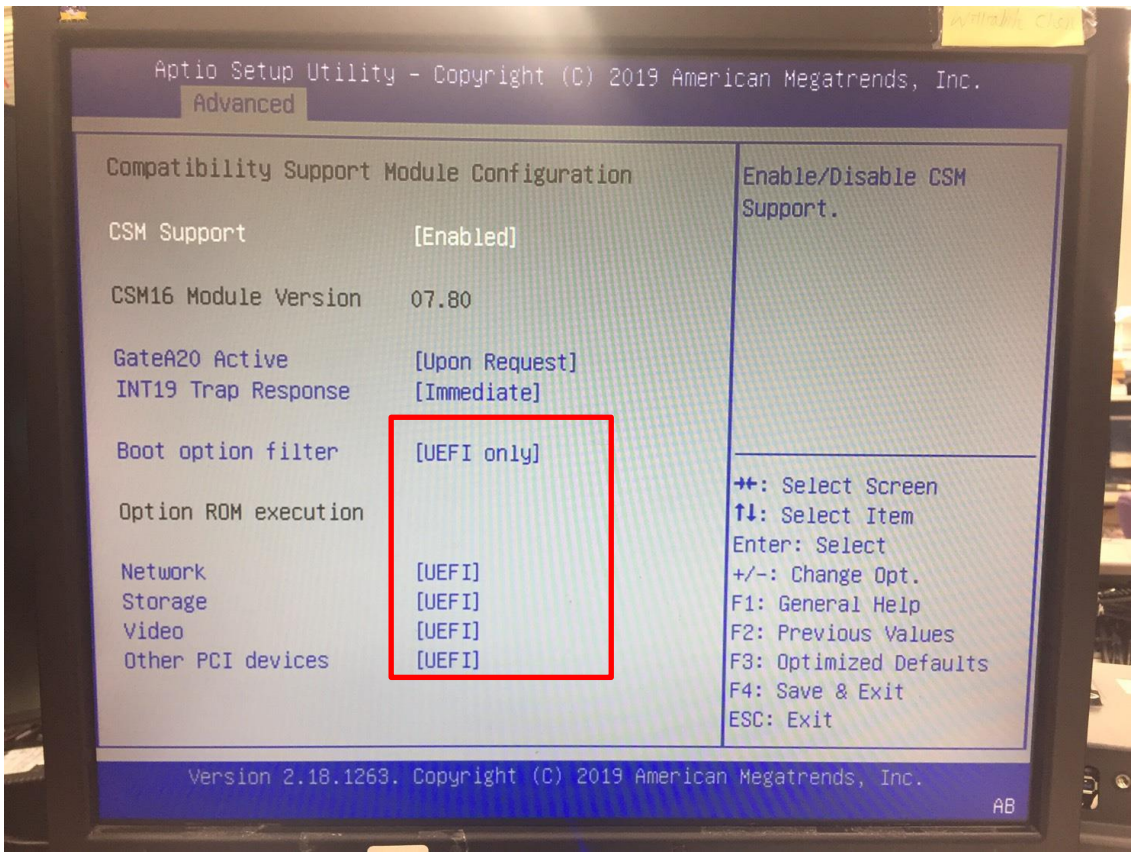
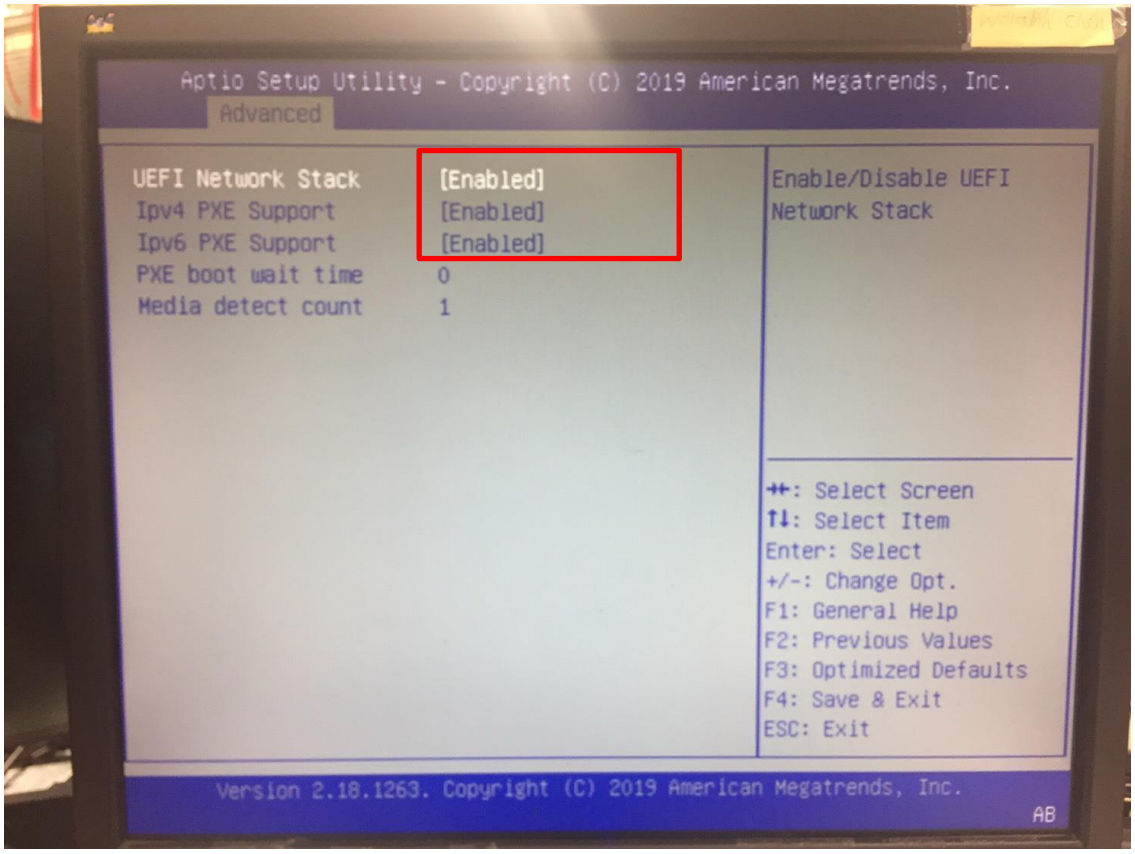
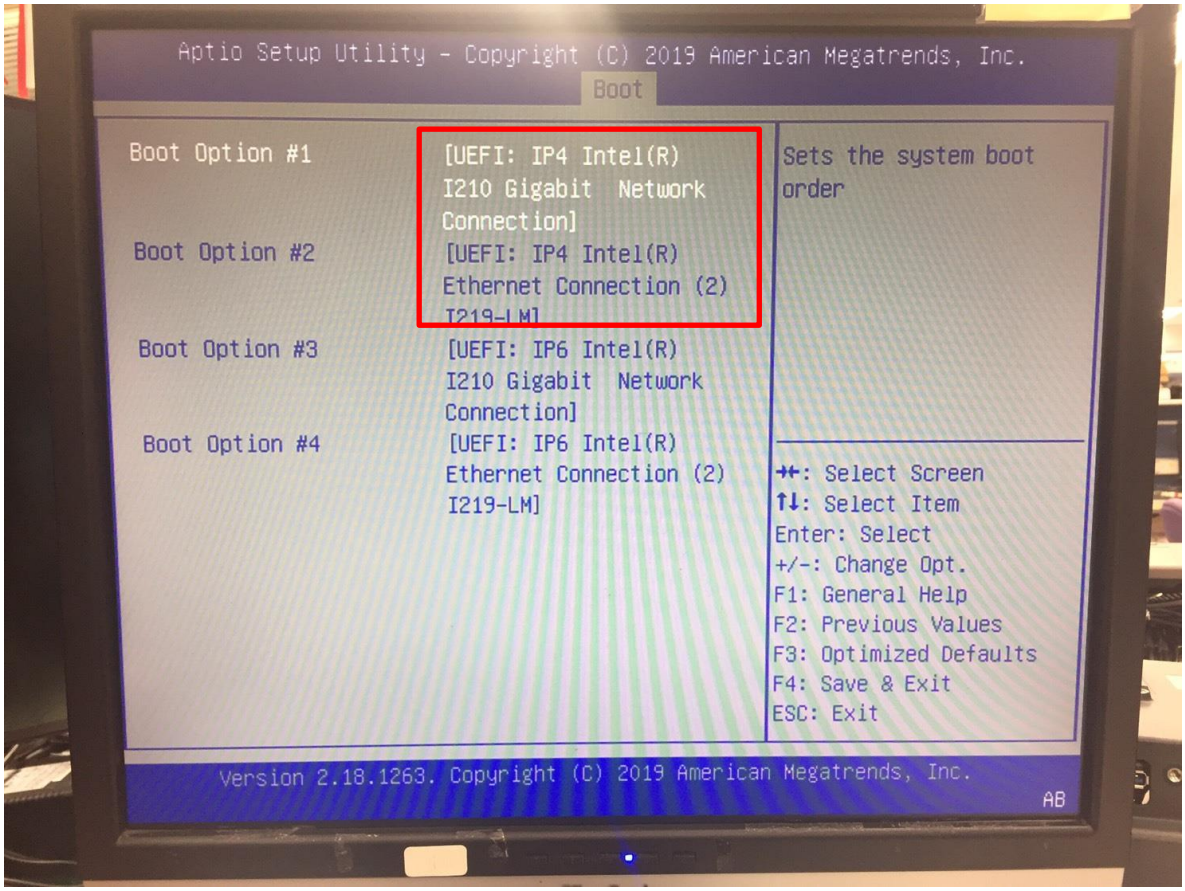

Intel(R) Boot Agent GE v1.4.10
Copyright (C) 1997-2012, Intel Corporation
CLIENT MAC ADDR: 74 FE 48 2E 11 ED GUID: 00020003 0004 0005 0006 000700080009
CLIENT IP: 192.168.0.100 MASK: 255.255.255.0 DHCP IP: 192.168.0.10
Downloaded WDSNBP from 192.168.0.10 WIN-J9LVFC7736M.WDS.com
Press any key to cancel network boot service

- Auto installation of UEFI base on Window 10 by IPv4 (64 bit).

Make sure the all of BIOS setting:






Aptio Setup Utility - Copyright (C) 2019 American Megatrends, Inc.
Boot
Boot Option #1
[UEFI: IP4 Intel(R) I210 Gigabit Network Connection]
Boot Option #2
[UEFI: IP4 Intel(R) Ethernet Connection (2) I219-LM]
Boot Option #3
[UEFI: IP6 Intel(R) I210 Gigabit Network Connection]
Boot Option #4
[UEFI: IP6 Intel(R) Ethernet Connection (2) I219-LM]
Sets the system boot order
→←: Select Screen
↑↓: Select Item
Enter: Select
+/-: Change Opt.
F1: General Help
F2: Previous Values
F3: Optimized Defaults
F4: Save & Exit
ESC: Exit
Version 2.18.1263. Copyright (C) 2019 American Megatrends, Inc.
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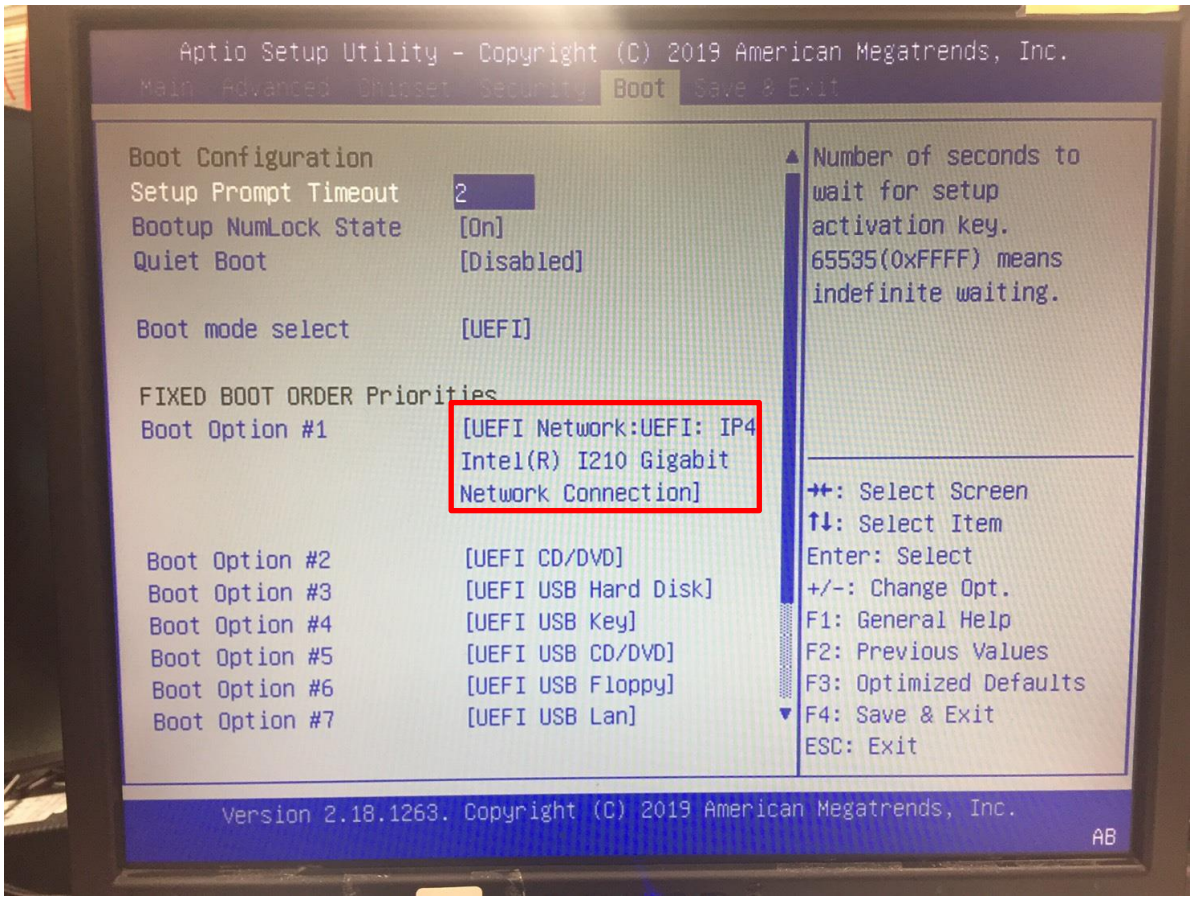
Aptio Setup Utility - Copyright (C) 2019 American Megatrends, Inc.
Main Advanced Chipset Security Boot Save & Exit
Boot Configuration
Setup Prompt Timeout
2
Bootup NumLock State
[On]
Quiet Boot
[Disabled]
Boot mode select
[UEFI]
FIXED BOOT ORDER Priorities
Boot Option #1
[UEFI Network:UEFI: IP4 Intel(R) I210 Gigabit Network Connection]
Boot Option #2
[UEFI CD/DVD]
Boot Option #3
[UEFI USB Hard Disk]
Boot Option #4
[UEFI USB Key]
Boot Option #5
[UEFI USB CD/DVD]
Boot Option #6
[UEFI USB Floppy]
Boot Option #7
[UEFI USB Lan]
Number of seconds to wait for setup activation key. 65535(0xFFFF) means indefinite waiting.
→←: Select Screen
↑↓: Select Item
Enter: Select
+/-: Change Opt.
F1: General Help
F2: Previous Values
F3: Optimized Defaults
F4: Save & Exit
ESC: Exit
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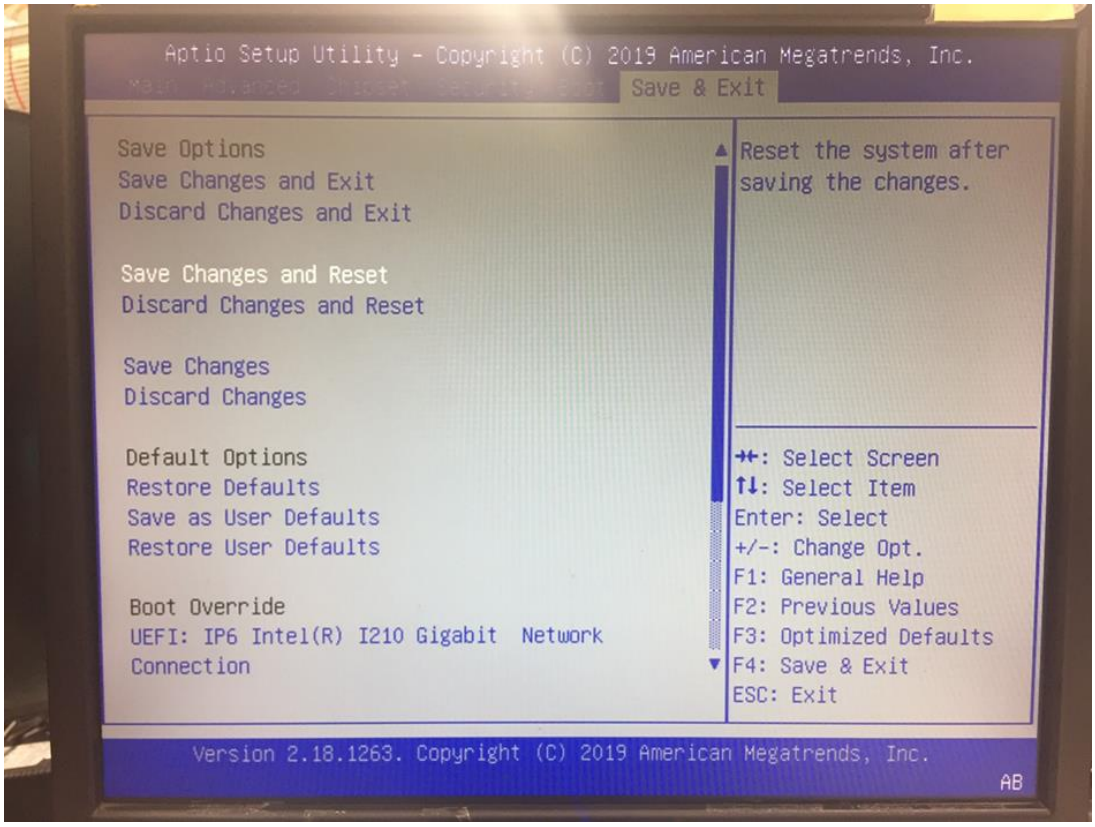
Aptio Setup Utility – Copyright (C) 2019 American Megatrends, Inc.
Save & Exit
Save Options
Save Changes and Exit
Discard Changes and Exit
Save Changes and Reset
Discard Changes and Reset
Save Changes
Discard Changes
Default Options
Restore Defaults
Save as User Defaults
Restore User Defaults
Boot Override
UEFI: IP6 Intel(R) I210 Gigabit Network Connection
Reset the system after saving the changes.
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↑↓: Select Item
Enter: Select
+/-: Change Opt.
F1: General Help
F2: Previous Values
F3: Optimized Defaults
F4: Save & Exit
ESC: Exit
Version 2.18.1263. Copyright (C) 2019 American Megatrends, Inc.
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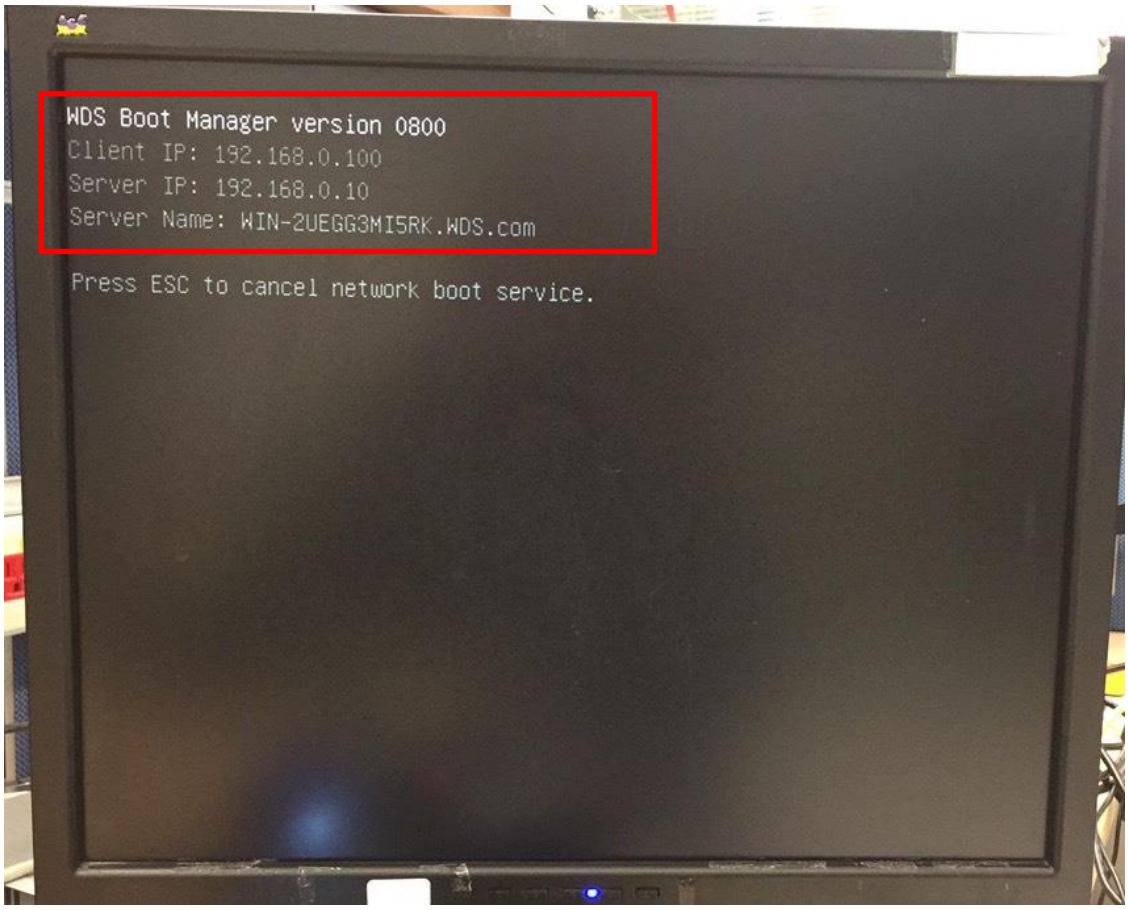
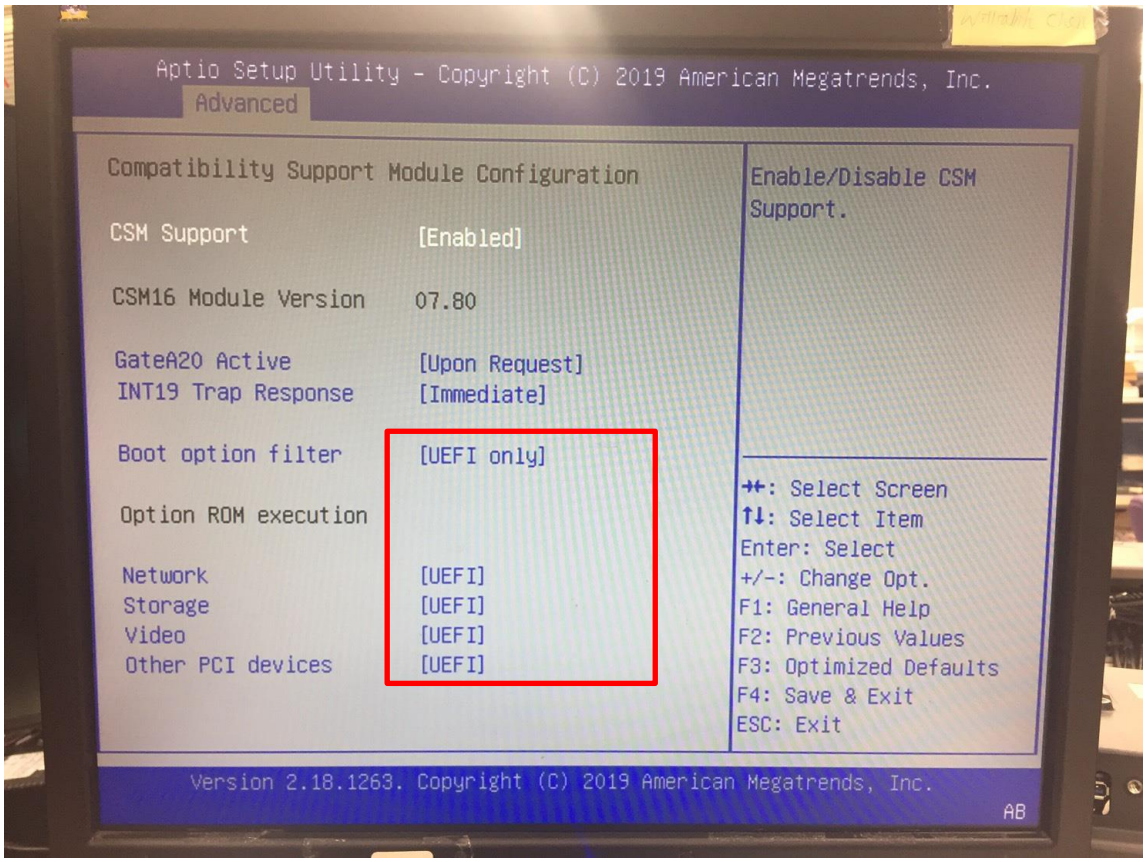
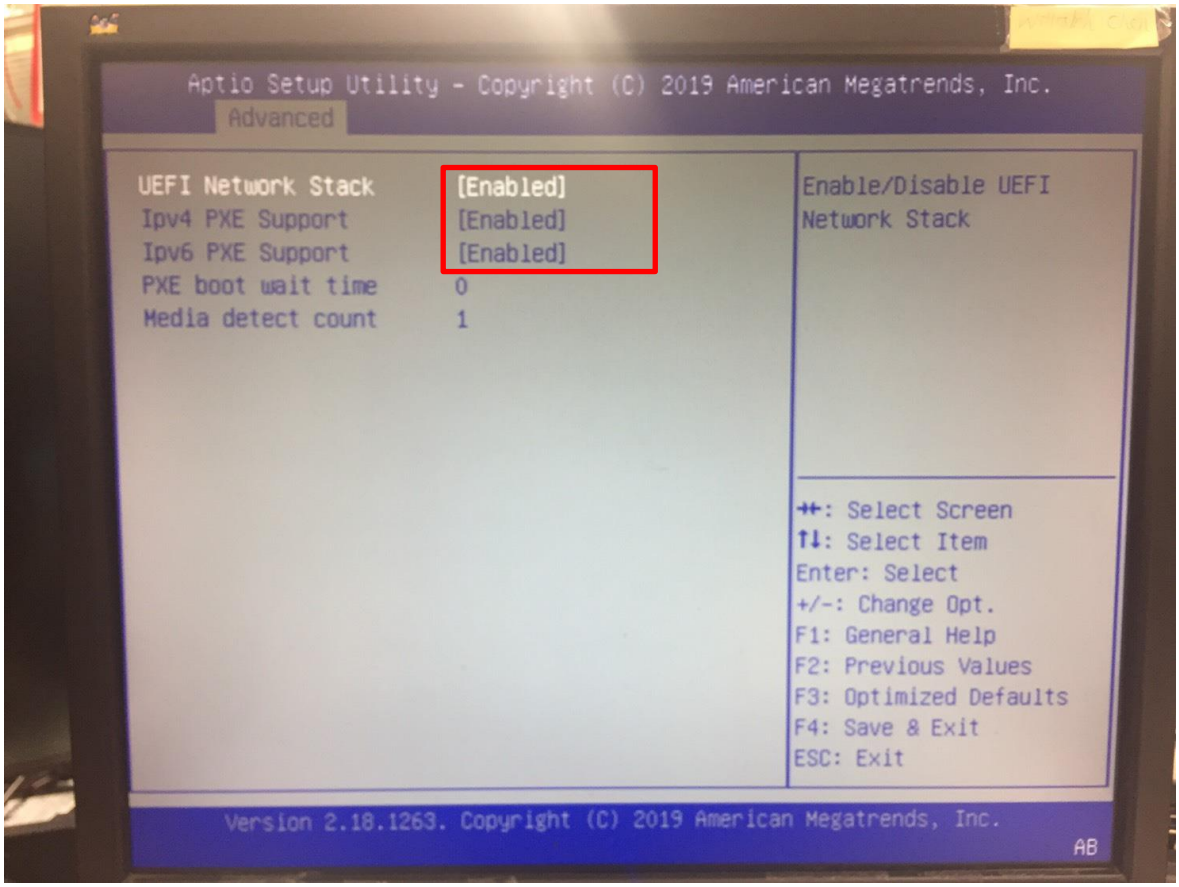
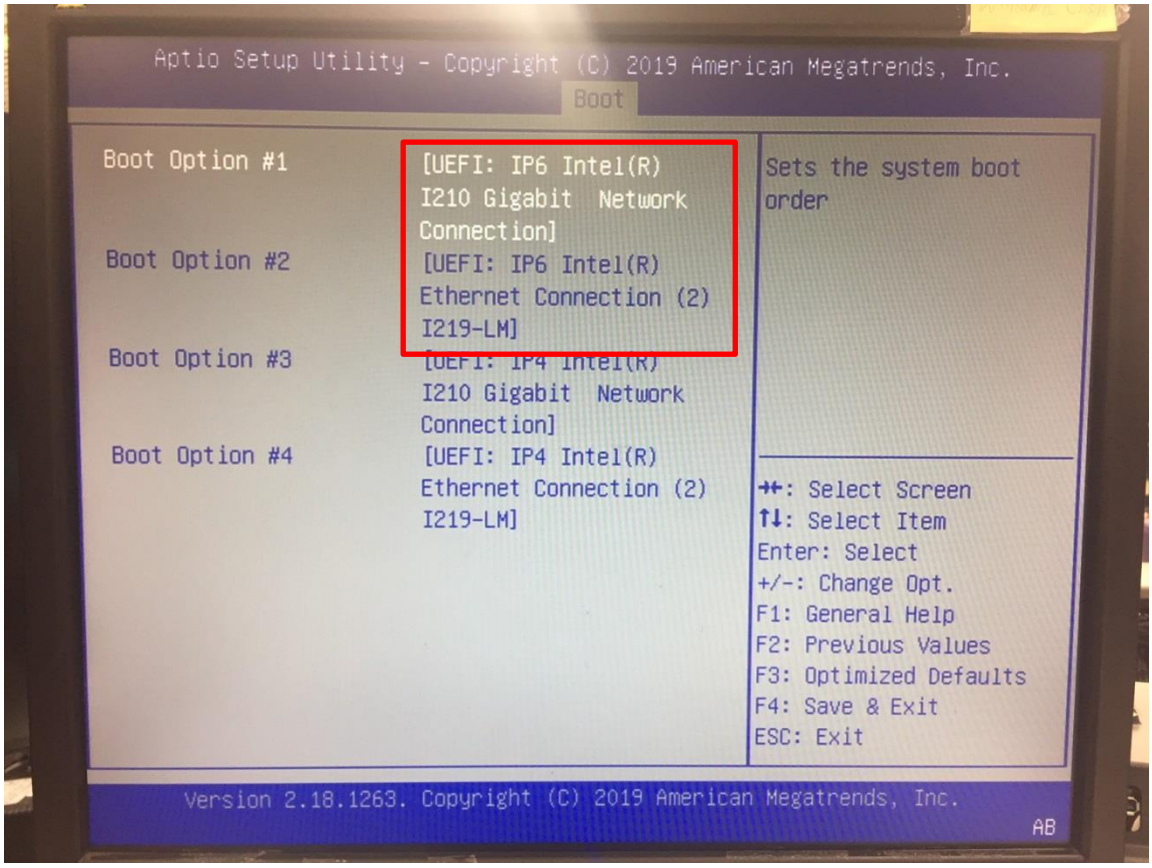

WDS Boot Manager version 0800
Client IP: 192.168.0.100
Server IP: 192.168.0.10
Server Name: WIN-2UEGG3MI5RK.WDS.com
Press ESC to cancel network boot service.

- Auto installation of UEFI base on Window 10 by IPv6 (64 bit).

Make sure the all of BIOS setting:






Aptio Setup Utility - Copyright (C) 2019 American Megatrends, Inc.
Boot
Boot Option #1
[UEFI: IP6 Intel(R) I210 Gigabit Network Connection]
Boot Option #2
[UEFI: IP6 Intel(R) Ethernet Connection (2) I219-LM]
Boot Option #3
[UEFI: IP4 Intel(R) I210 Gigabit Network Connection]
Boot Option #4
[UEFI: IP4 Intel(R) Ethernet Connection (2) I219-LM]
Sets the system boot order
→←: Select Screen
↑↓: Select Item
Enter: Select
+/-: Change Opt.
F1: General Help
F2: Previous Values
F3: Optimized Defaults
F4: Save & Exit
ESC: Exit
Version 2.18.1263. Copyright (C) 2019 American Megatrends, Inc.
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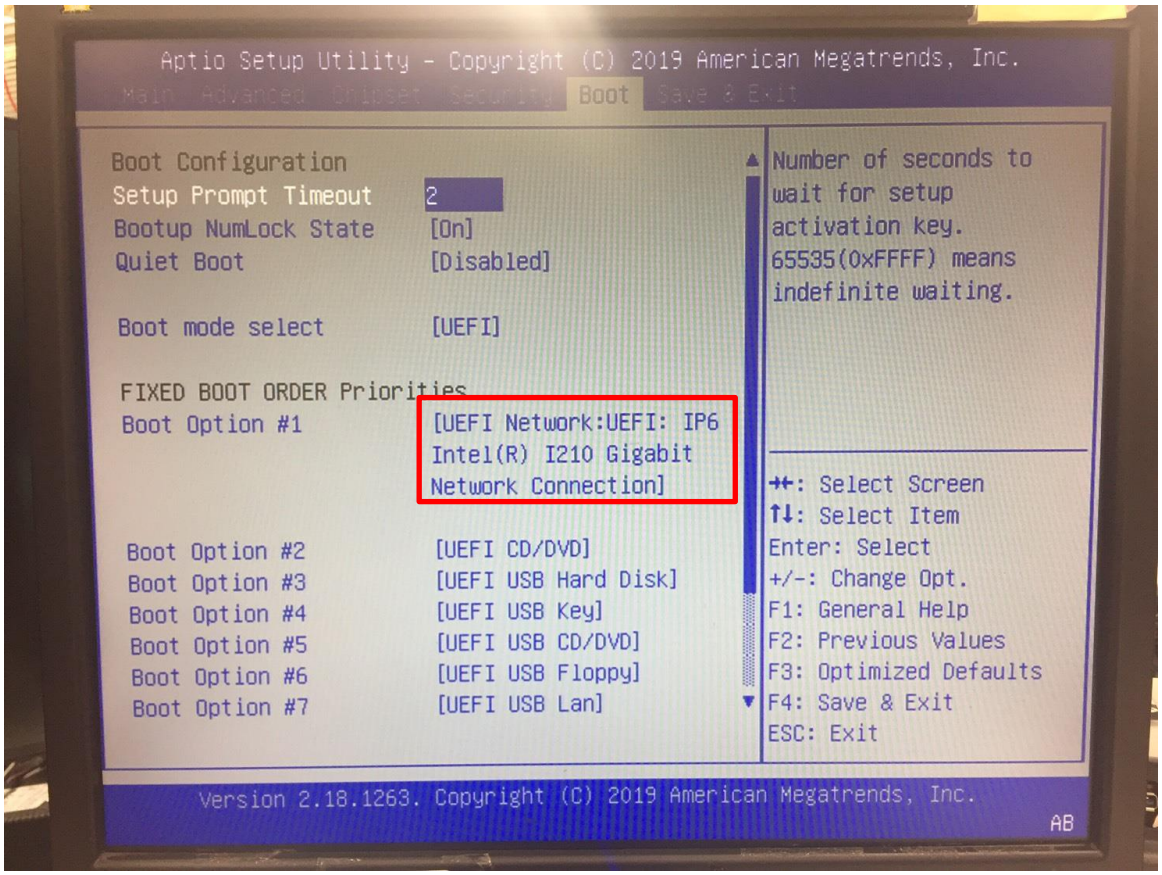
Aptio Setup Utility - Copyright (C) 2019 American Megatrends, Inc.
Main Advanced Chipset Security Boot Save & Exit
Boot Configuration
Setup Prompt Timeout 2
Bootup NumLock State [On]
Quiet Boot [Disabled]
Boot mode select [UEFI]
FIXED BOOT ORDER Priorities
Boot Option #1 [UEFI Network:UEFI: IP6 Intel(R) I210 Gigabit Network Connection]
Boot Option #2 [UEFI CD/DVD]
Boot Option #3 [UEFI USB Hard Disk]
Boot Option #4 [UEFI USB Key]
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Boot Option #6 [UEFI USB Floppy]
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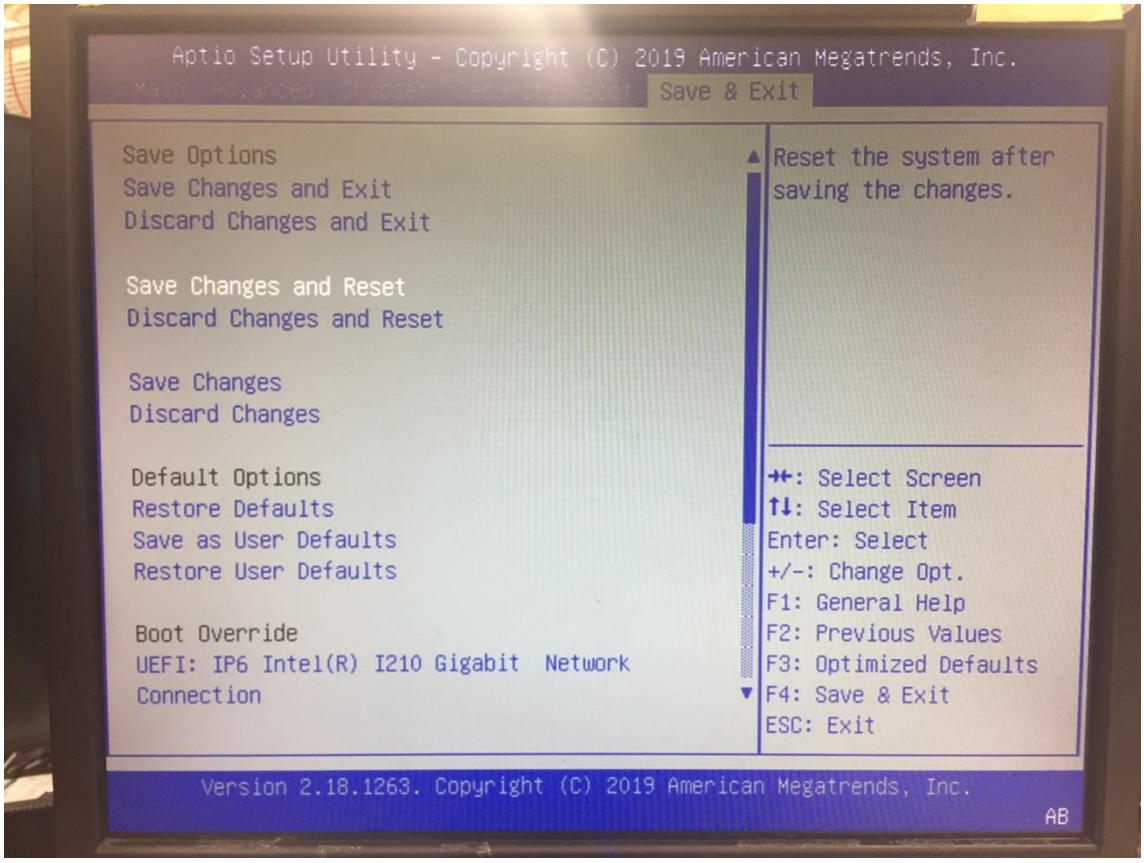
Aptio Setup Utility - Copyright (C) 2019 American Megatrends, Inc.
Save & Exit
Save Options
Save Changes and Exit
Discard Changes and Exit
Save Changes and Reset
Discard Changes and Reset
Save Changes
Discard Changes
Default Options
Restore Defaults
Save as User Defaults
Restore User Defaults
Boot Override
UEFI: IP6 Intel(R) I210 Gigabit Network Connection
Reset the system after saving the changes.
→←: Select Screen
↑↓: Select Item
Enter: Select
+/-: Change Opt.
F1: General Help
F2: Previous Values
F3: Optimized Defaults
F4: Save & Exit
ESC: Exit
Version 2.18.1263. Copyright (C) 2019 American Megatrends, Inc.
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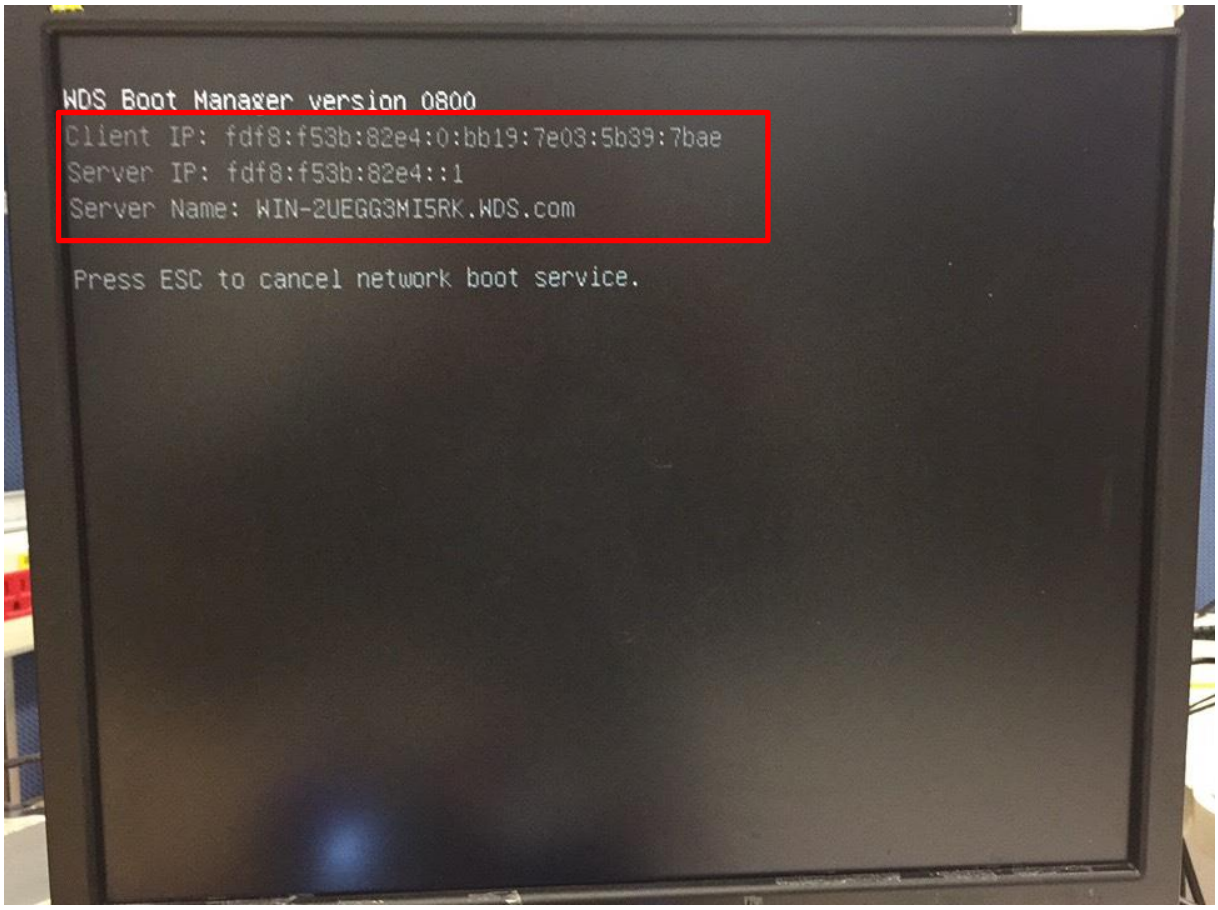
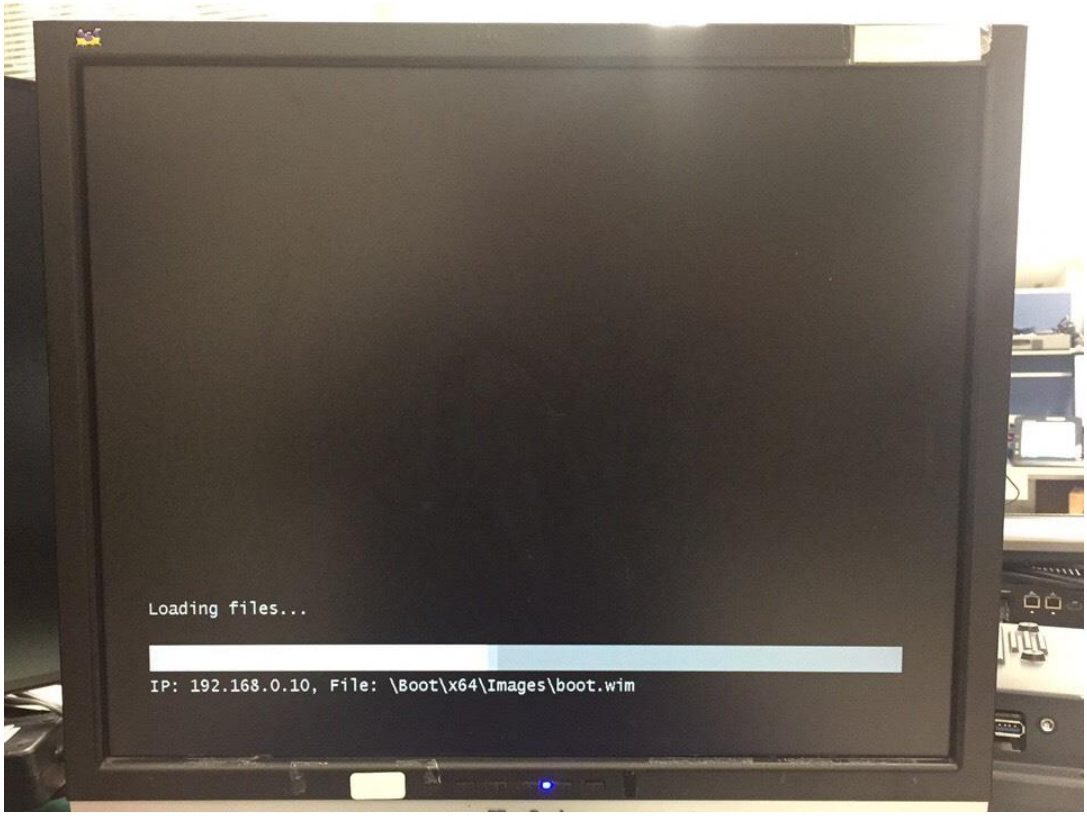
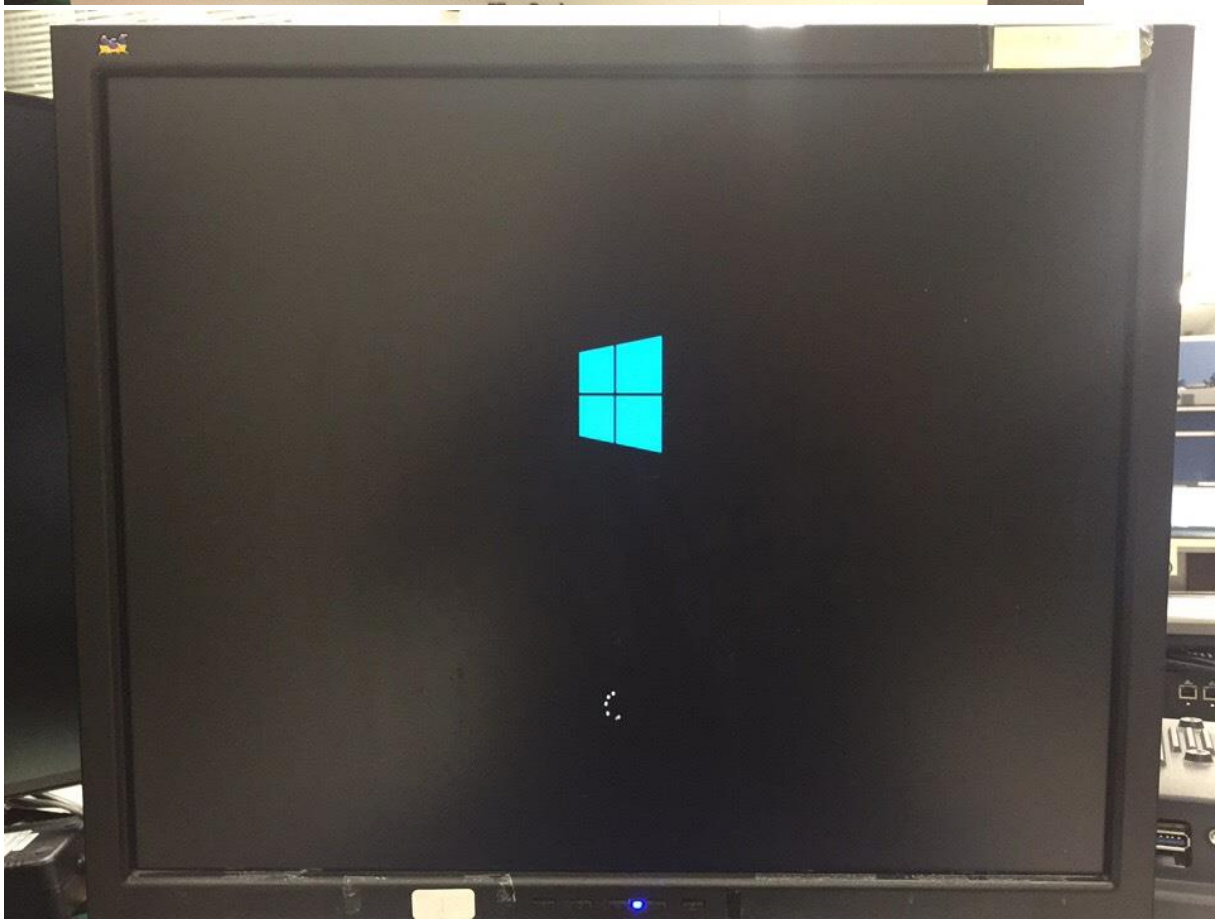
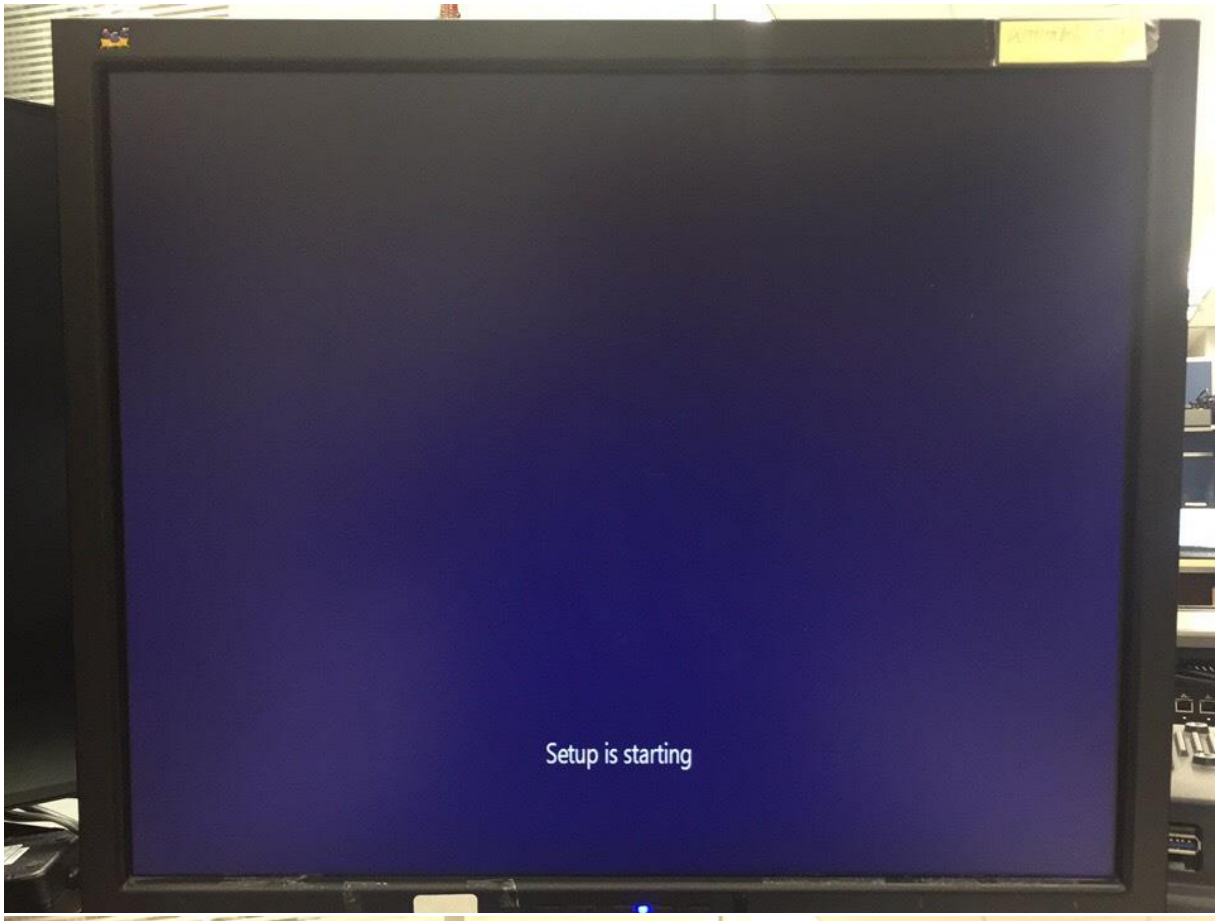

WDS Boot Manager version 0800
Client IP: fdf8:f53b:82e4:0:bb19:7e03:5b39:7bae
Server IP: fdf8:f53b:82e4::1
Server Name: WIN-2UEGG3MI5RK.WDS.com
Press ESC to cancel network boot service.

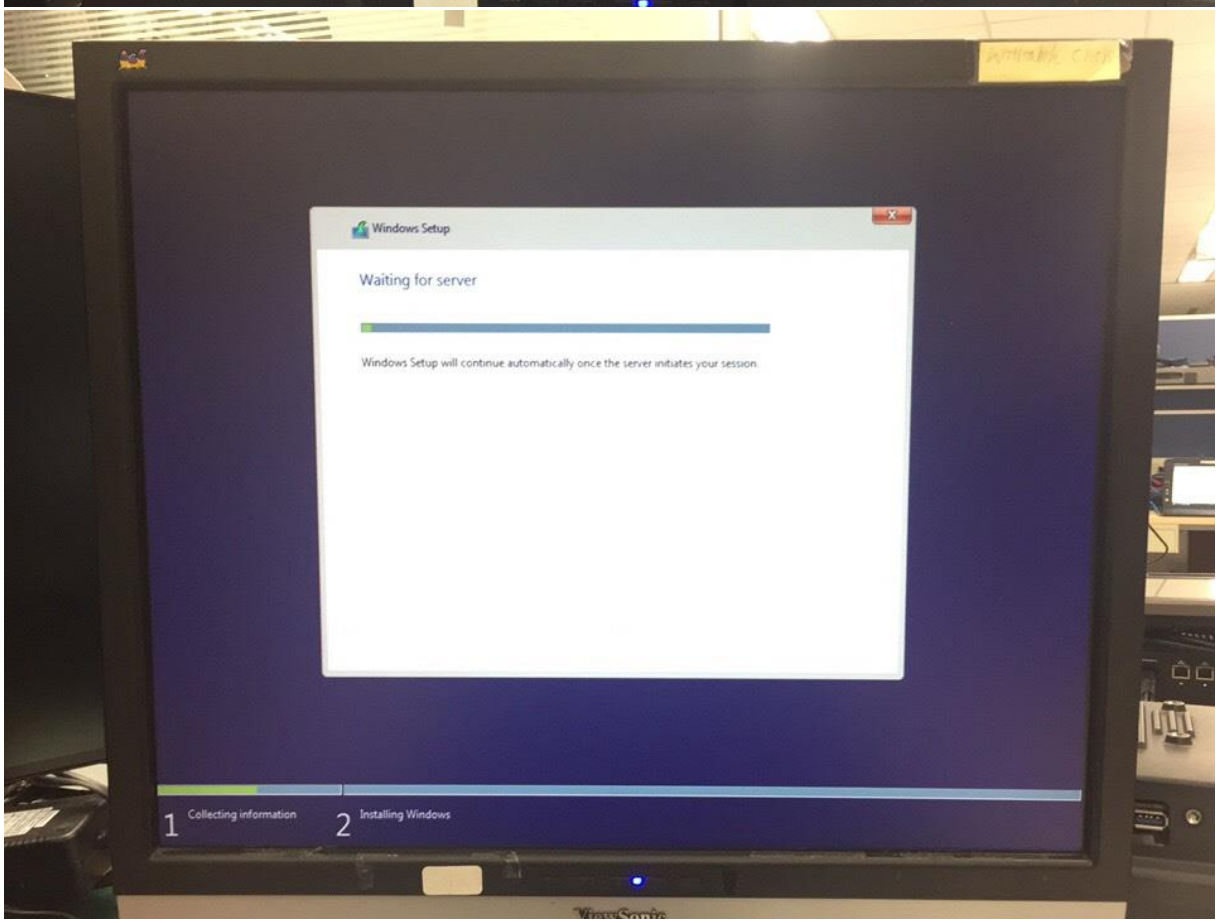
Step 3:

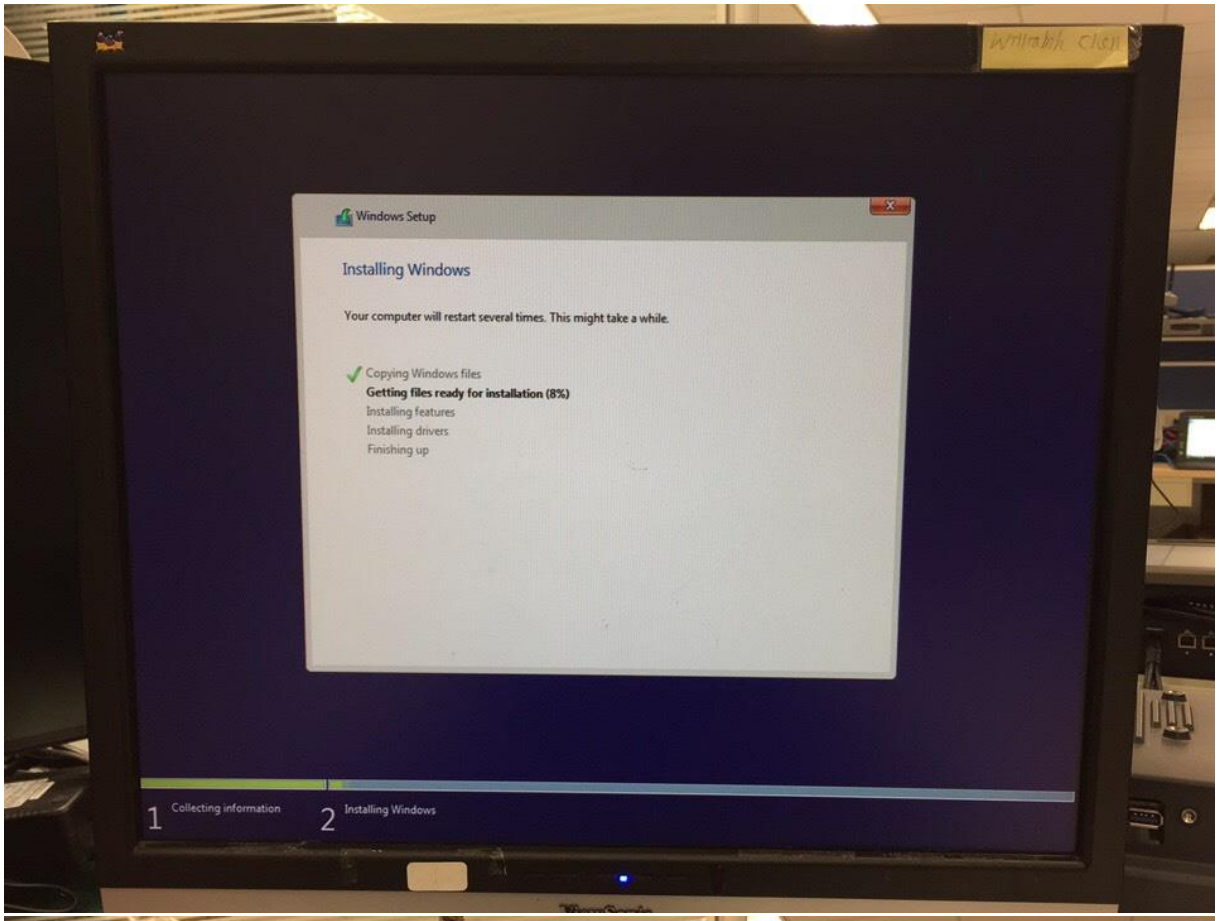
Auto Installation is executing. (Don’t touch anything)

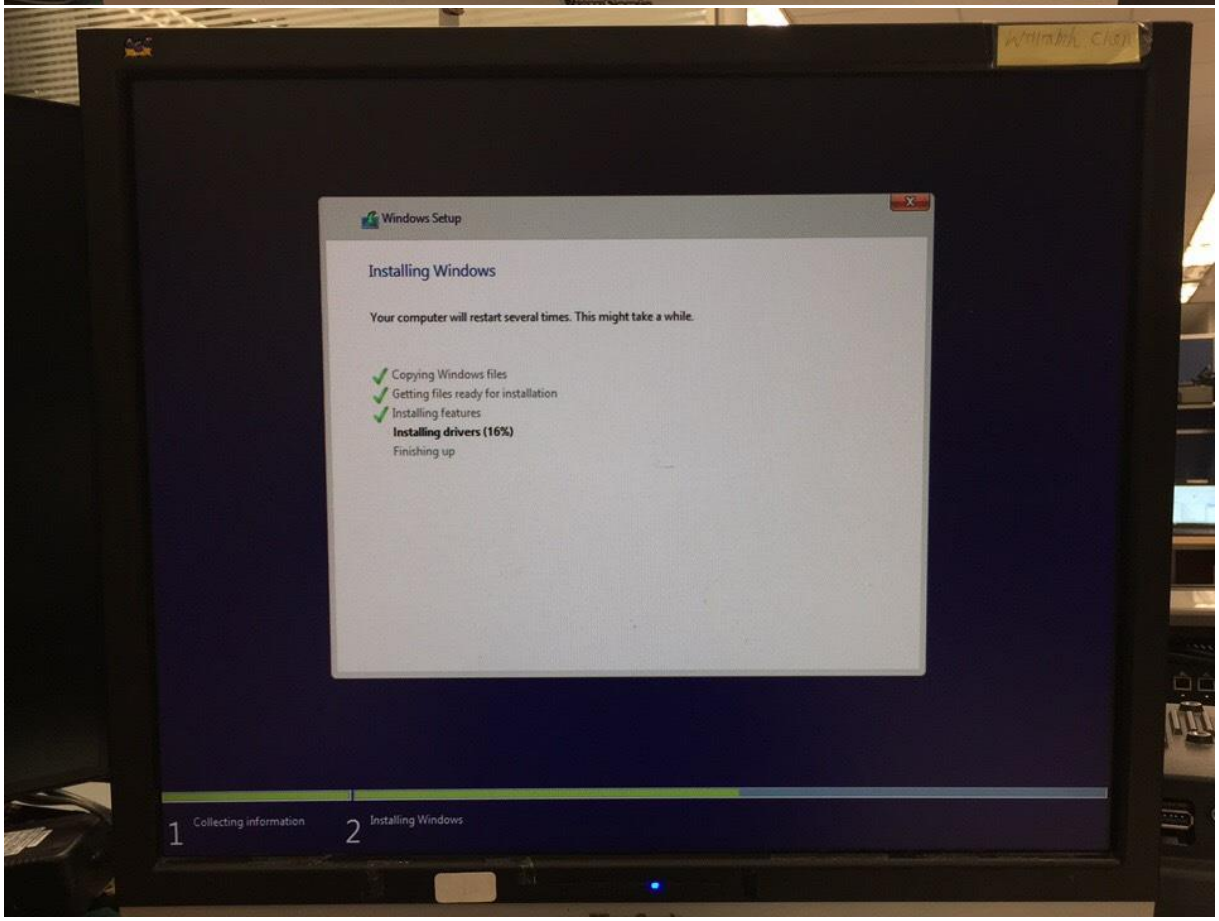


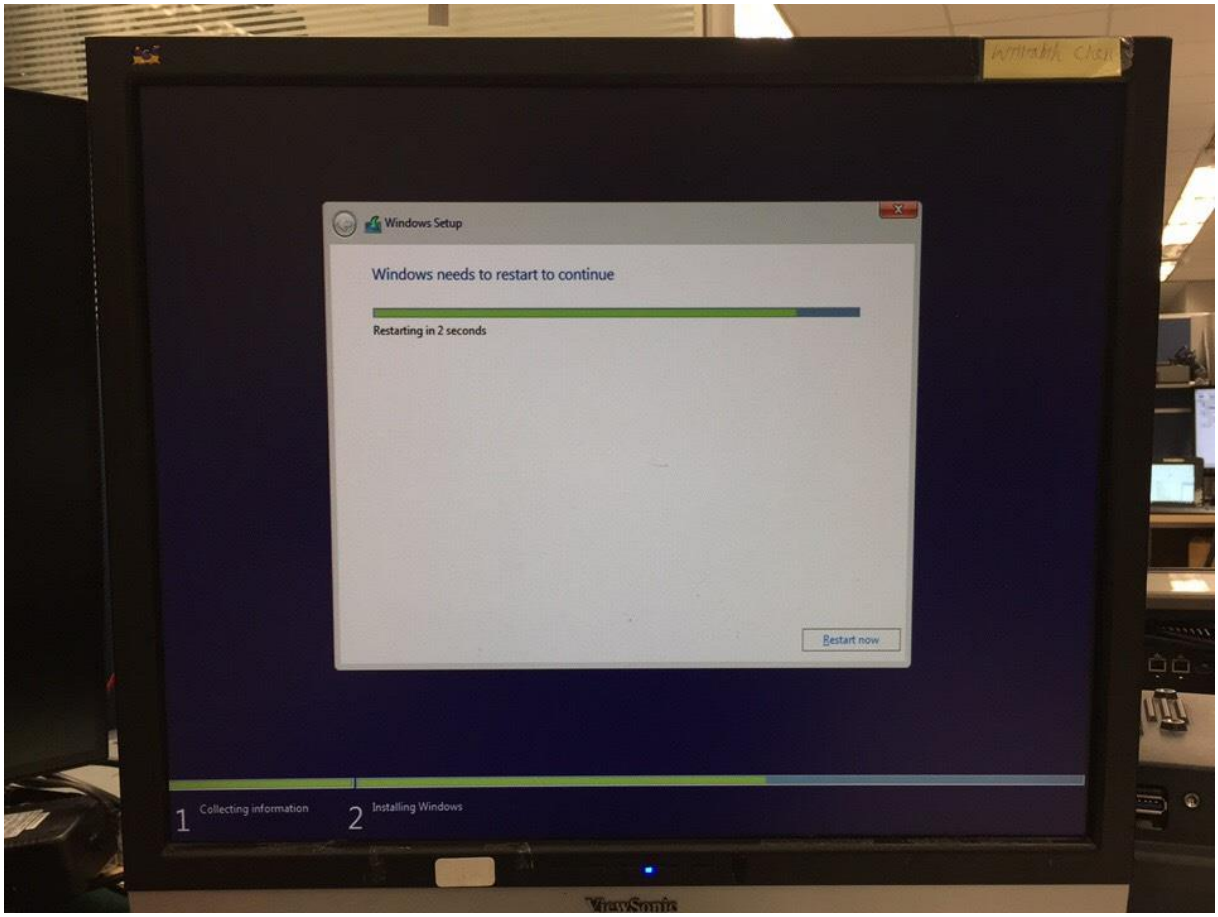


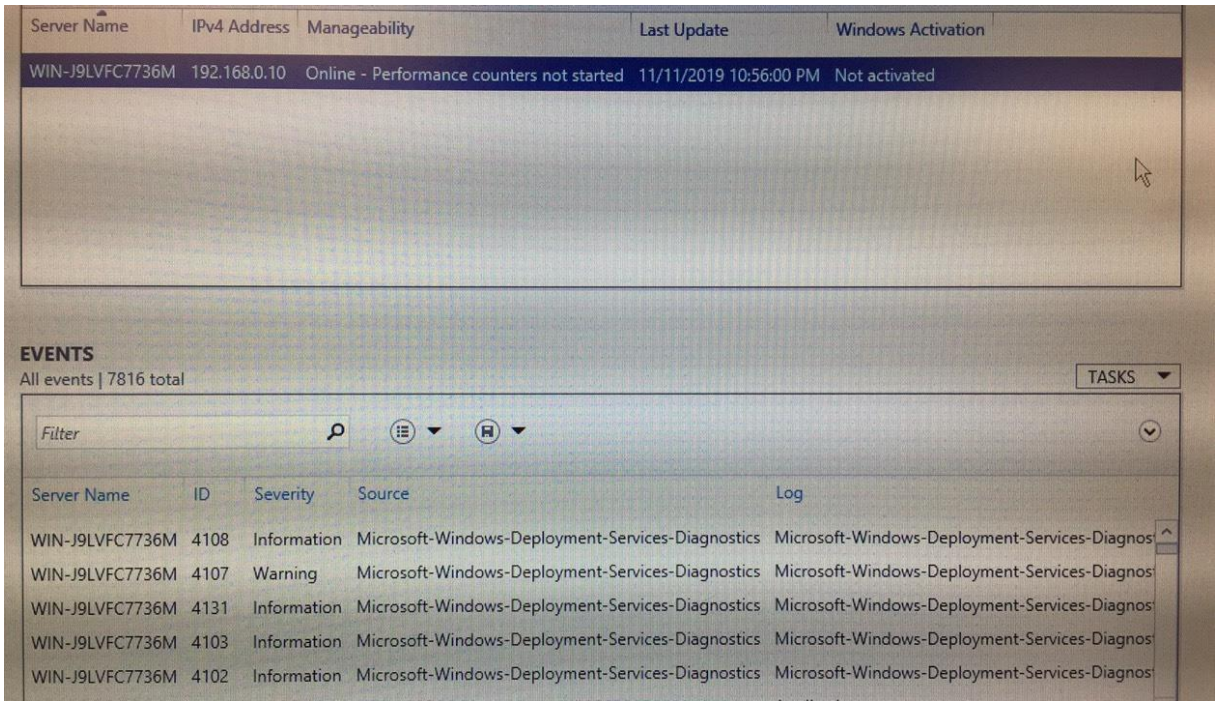

Setup is starting


Windows Setup
Waiting for server
Windows Setup will continue automatically once the server initiates your session.
1 Collecting information
2 Installing Windows


Windows Setup
Installing Windows
Your computer will restart several times. This might take a while.
Copying Windows files
Getting files ready for installation (8%)
Installing features
Installing drivers
Finishing up
1 Collecting information
2 Installing Windows


Windows Setup
Installing Windows
Your computer will restart several times. This might take a while.
Copying Windows files
Getting files ready for installation
Installing features
Installing drivers (16%)
Finishing up
1 Collecting information
2 Installing Windows





Please make sure the Information on WDS interface should be worked.