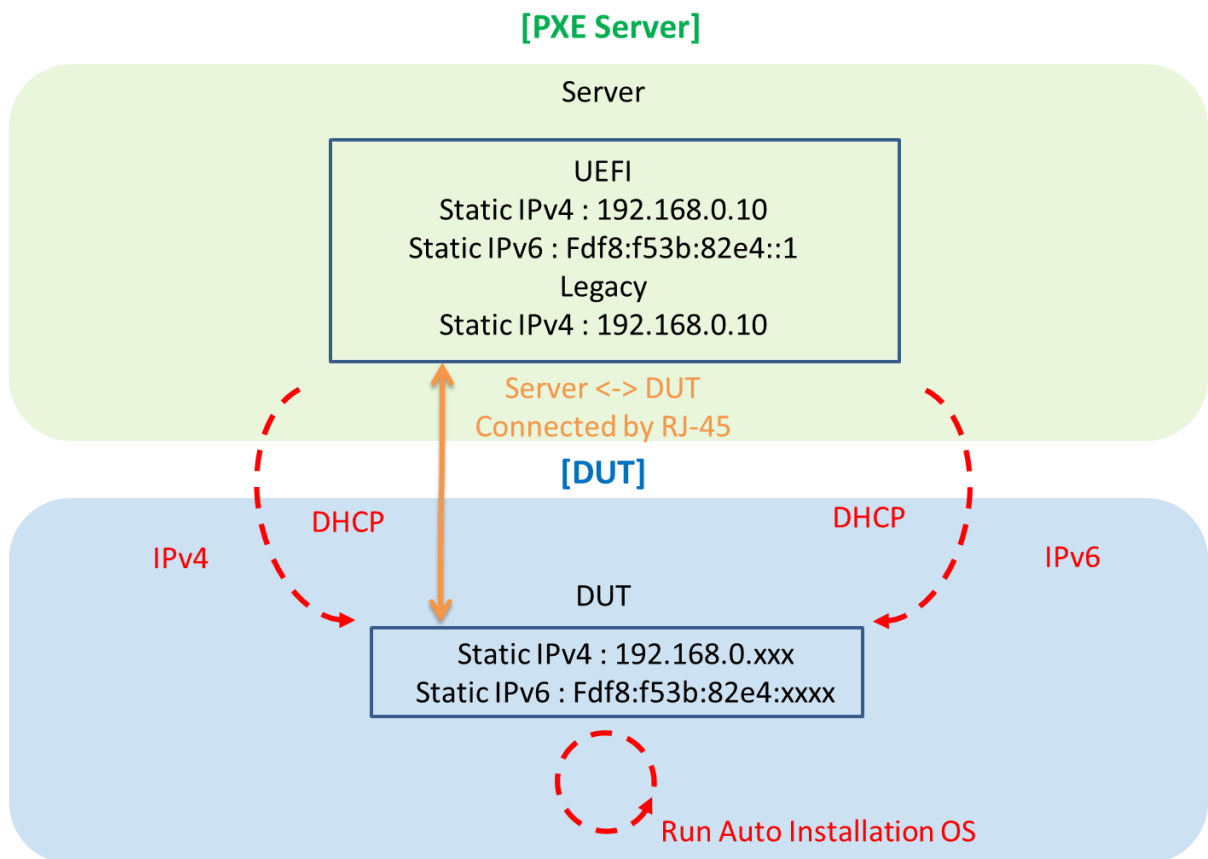# Auto Installation
for Legacy and UEFI by
PXE server

Version 1.0

Version History

Version	Date	Handled by	Comments
V1.0	15-Oct-2019	ZL Chen	First version release.

System Structure:

[PXE Server]

Server

UEFI
Static IPv4 : 192.168.0.10
Static IPv6 : Fdf8:f53b:82e4::1
Legacy
Static IPv4 : 192.168.0.10

Server <-> DUT
Connected by RJ-45

[DUT]

DHCP   DHCP

IPv4   IPv6

DUT
Static IPv4 : 192.168.0.xxx
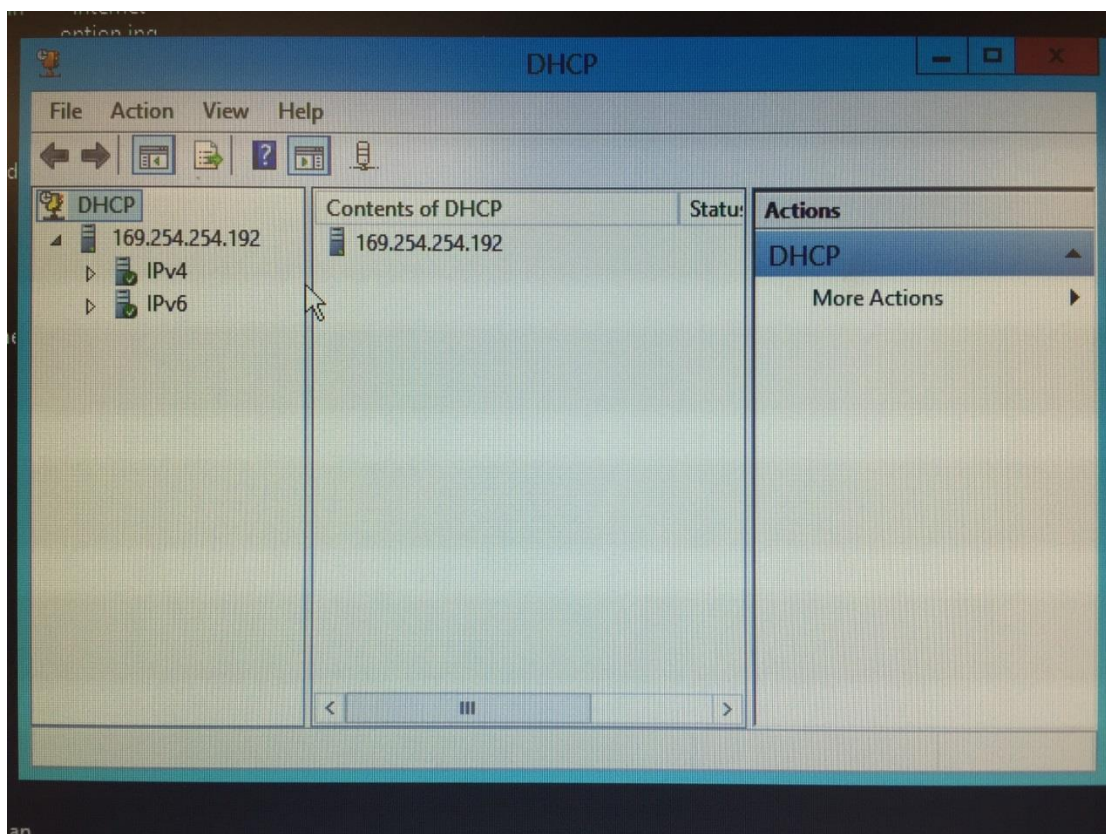Static IPv6 : Fdf8:f53b:82e4:xxxx
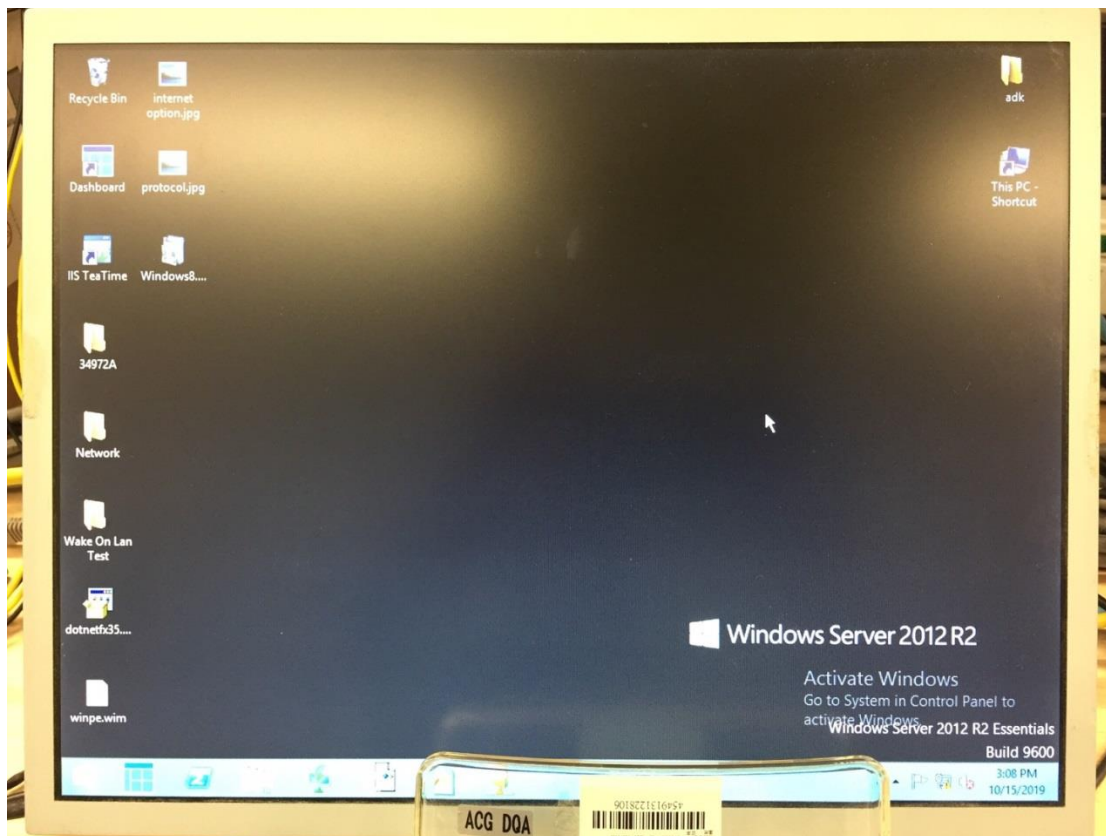
Run Auto Installation OS

Precondition Setting:

Please make sure the DUT is connected with PXE Server.

Please follow the implement as below:

Step 1:

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.

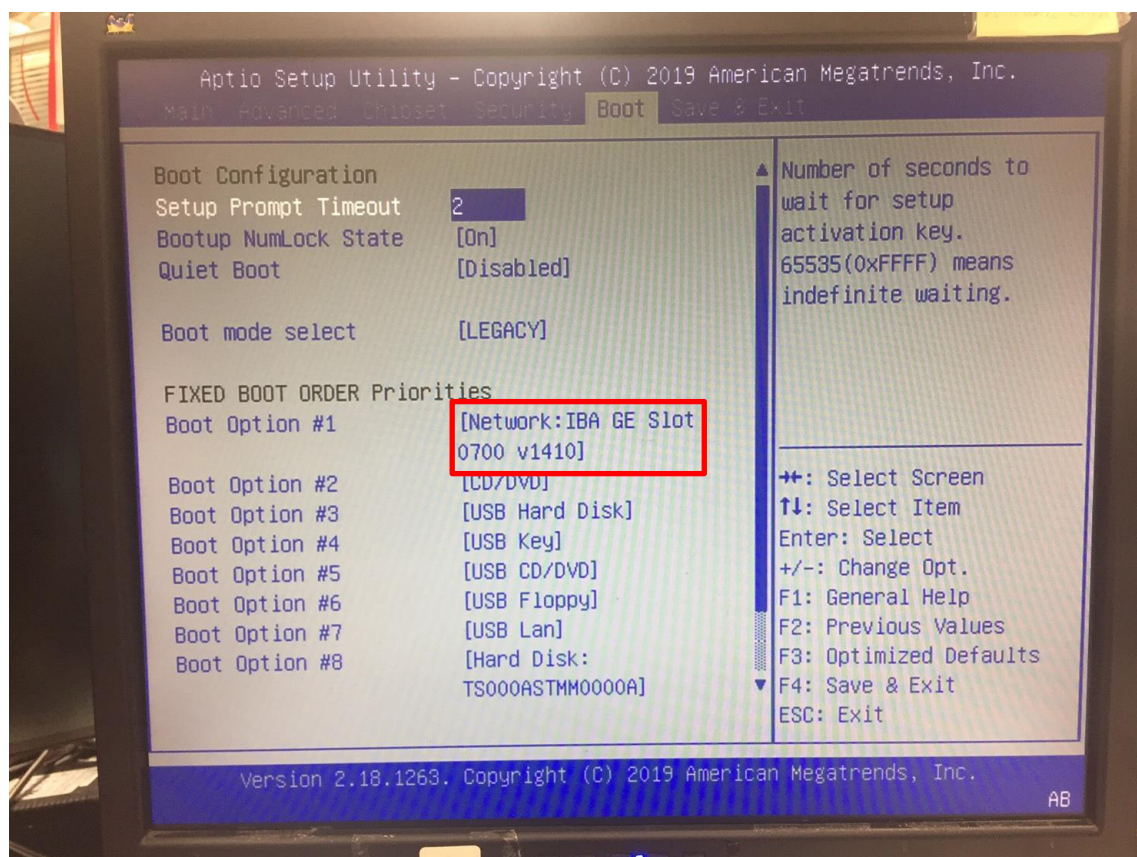| BIOS Setting	Auto Installation Operation System
Legacy	Windows 10 (64 bit)
Legacy	Windows 10 (32 bit)
UEFI	Windows 10 by IPv4 (64 bit)
UEFI	Windows 10 by IPv6 (64 bit)

Please choose the Auto Installation method as below:
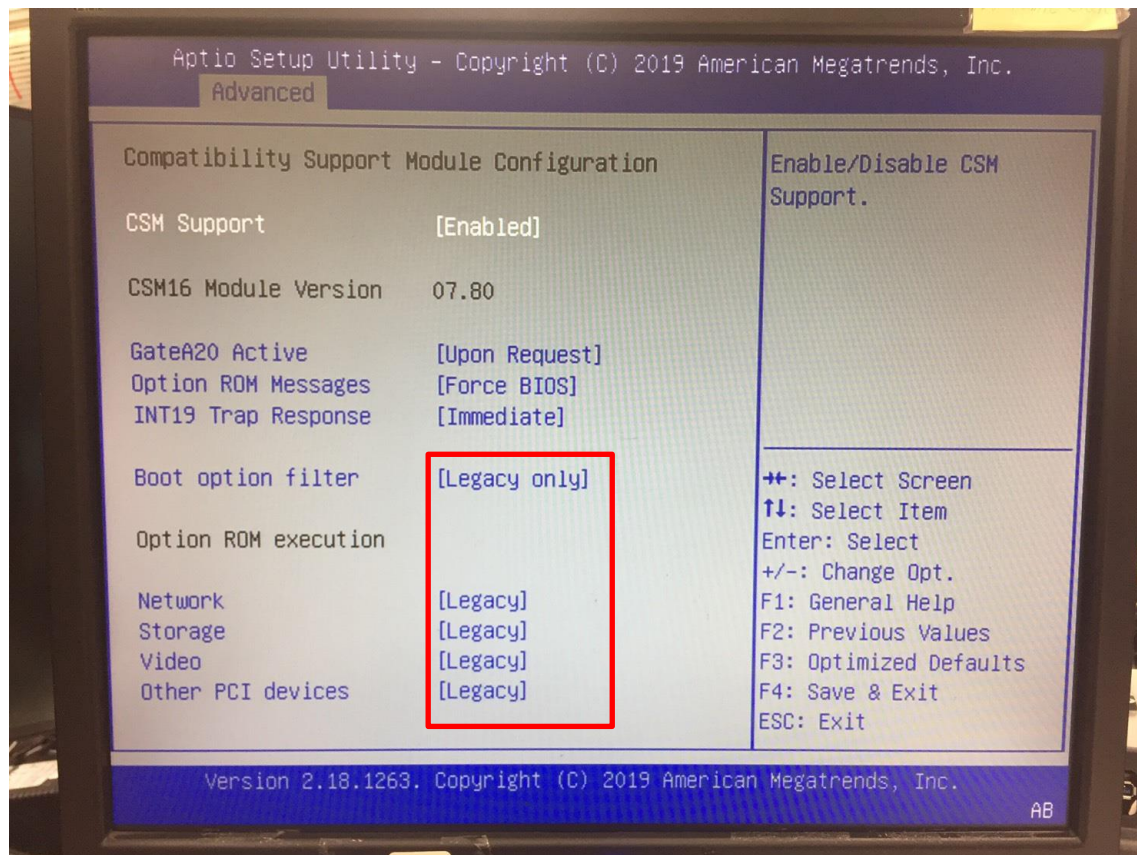
- Auto installation of Legacy base on Window 10 (64 bit).
- Auto installation of Legacy base on Window 10 (32 bit).
- Auto installation of UEFI base on Window 10 by IPv4 (64 bit).
- Auto installation of UEFI base on Window 10 by IPv6 (64 bit).

● Auto installation of Legacy base on Window 10 (64 bit).
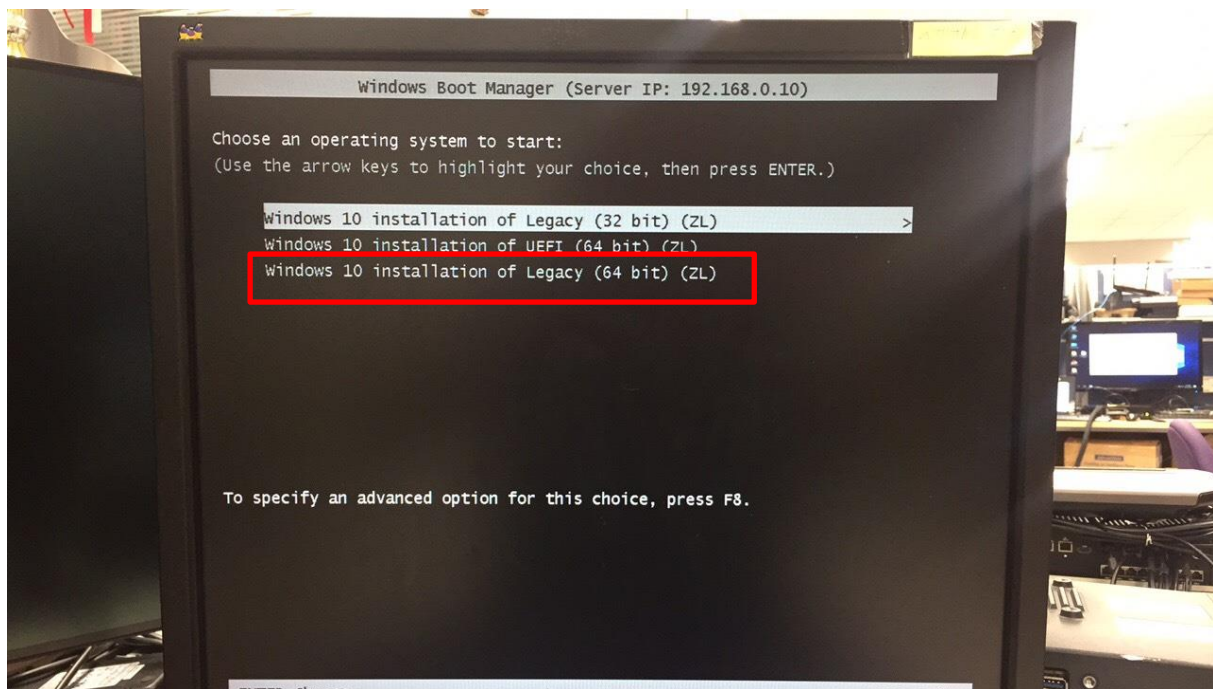
Make sure the all of BIOS setting:
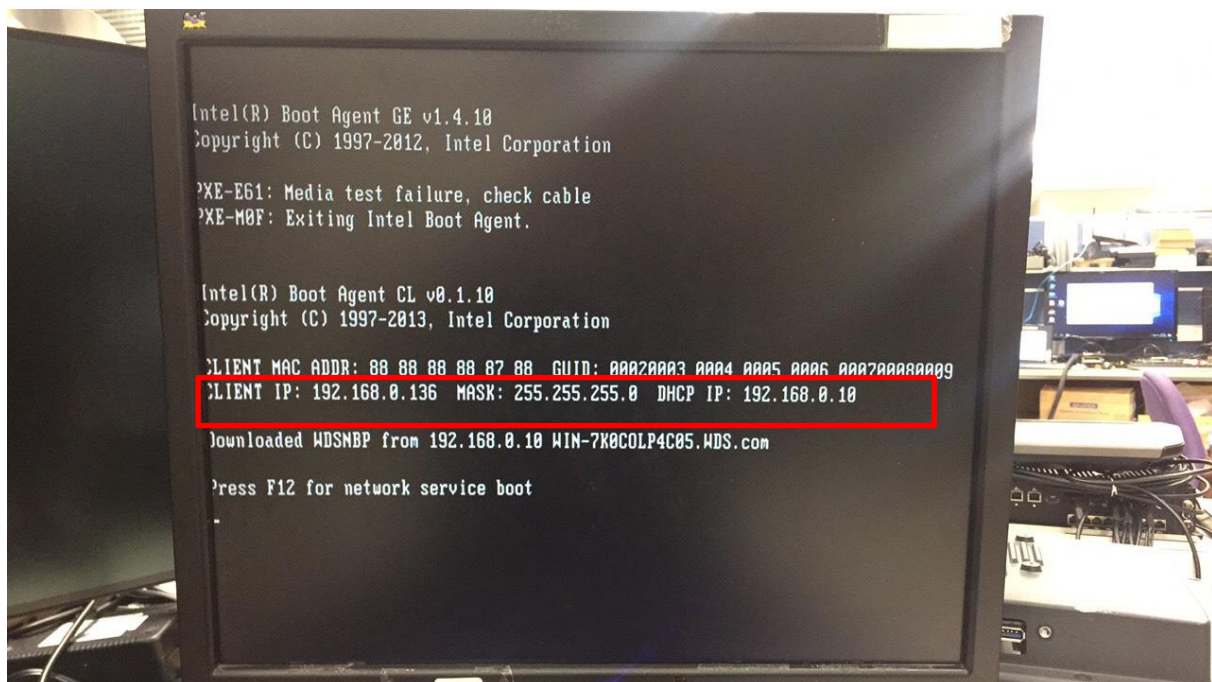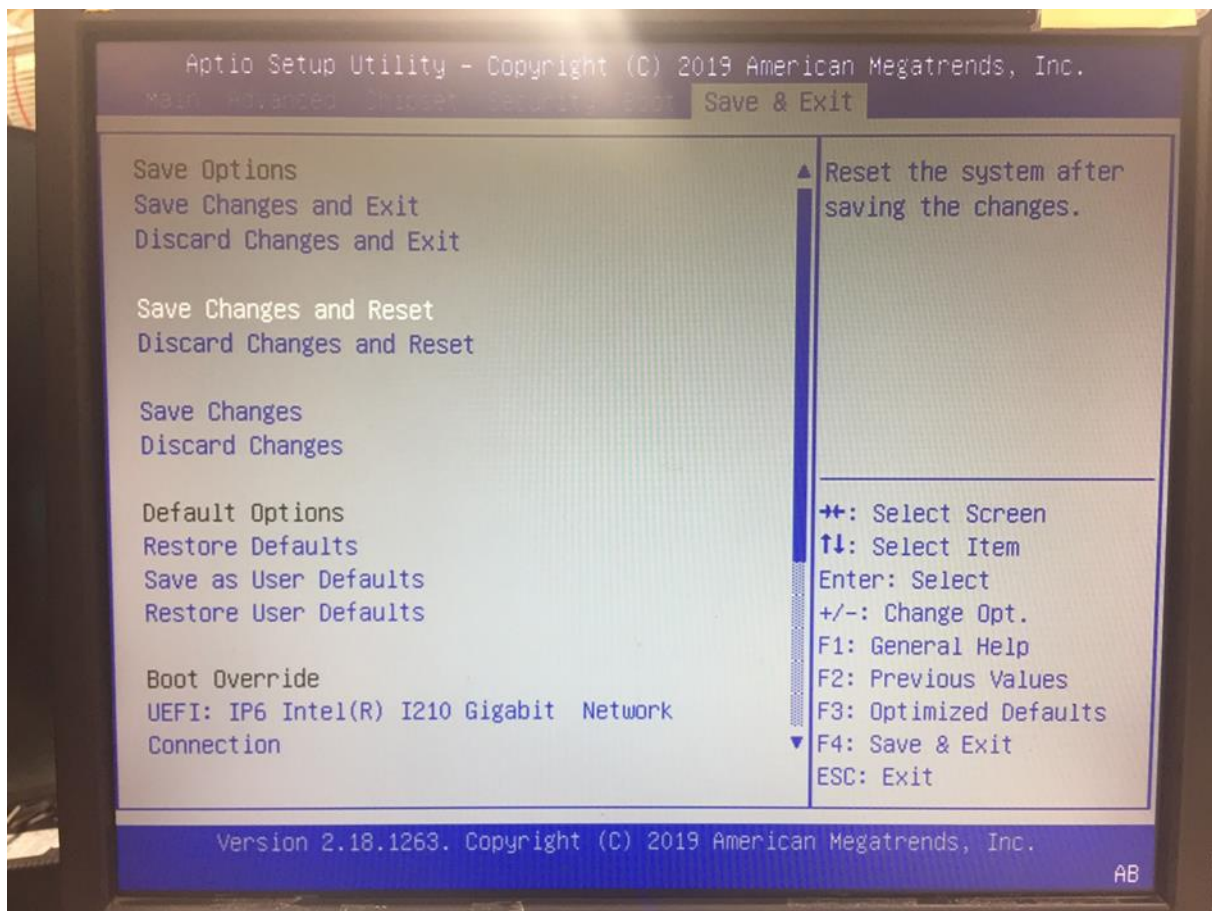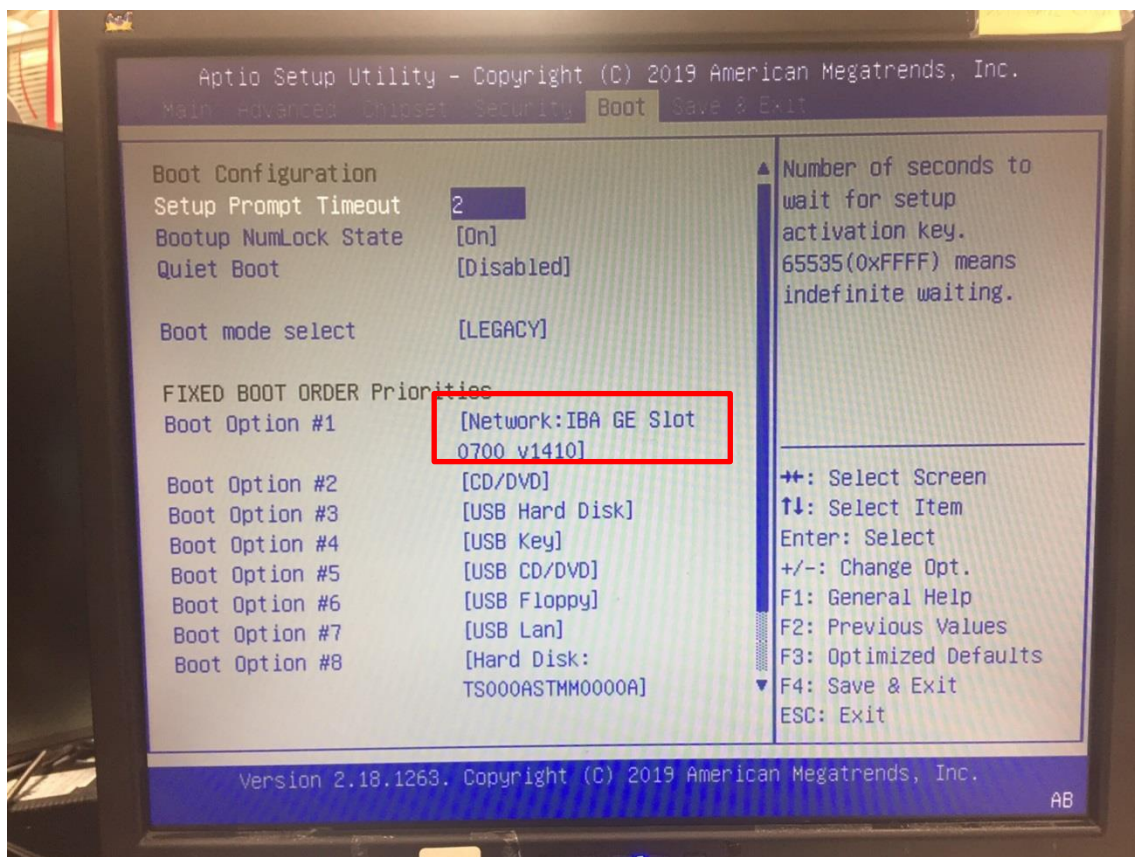
Please tap the "F12" right now.

Select the "Windows 10 installation of Legacy (64 bit) (ZL)", then "Enter"

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

Make sure the all of BIOS setting:

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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

PXE-E61: Media test failure, check cable
PXE-M0F: Exiting Intel Boot Agent.

Intel(R) Boot Agent CL v0.1.10
Copyright (C) 1997-2013, Intel Corporation

CLIENT MAC ADDR: 88 88 88 88 87 88 GUID: 00020003 0004 0005 0006 000700090009
CLIENT IP: 192.168.0.136 MASK: 255.255.255.0 DHCP IP: 192.168.0.10

Downloaded WDSNBP from 192.168.0.10 WIN-7K0COLP4C05.WDS.com

Press F12 for network service boot
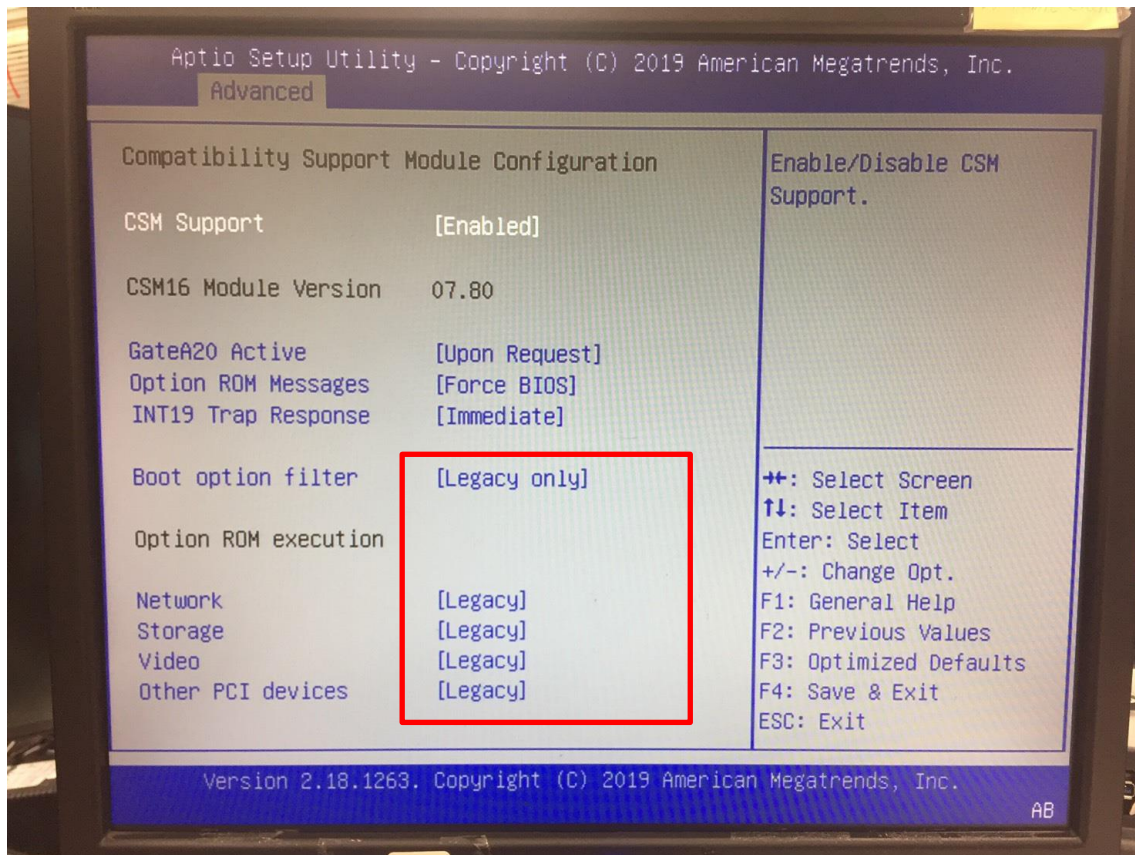
Please tap the "F12" right now.

Select the "Windows 10 installation of Legacy (32 bit) (ZL)", then "Enter"

● Auto installation of UEFI base on Window 10 by IPv4 (64 bit).
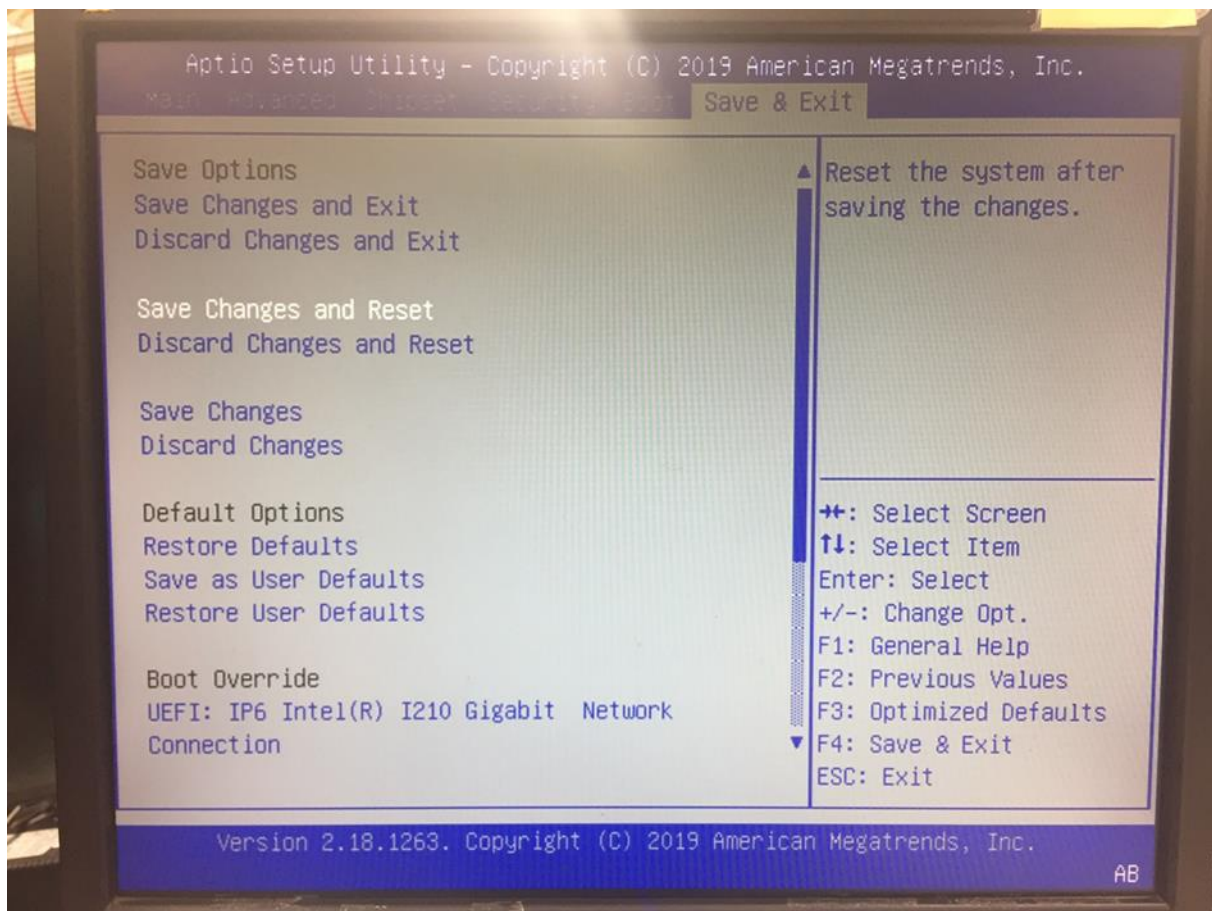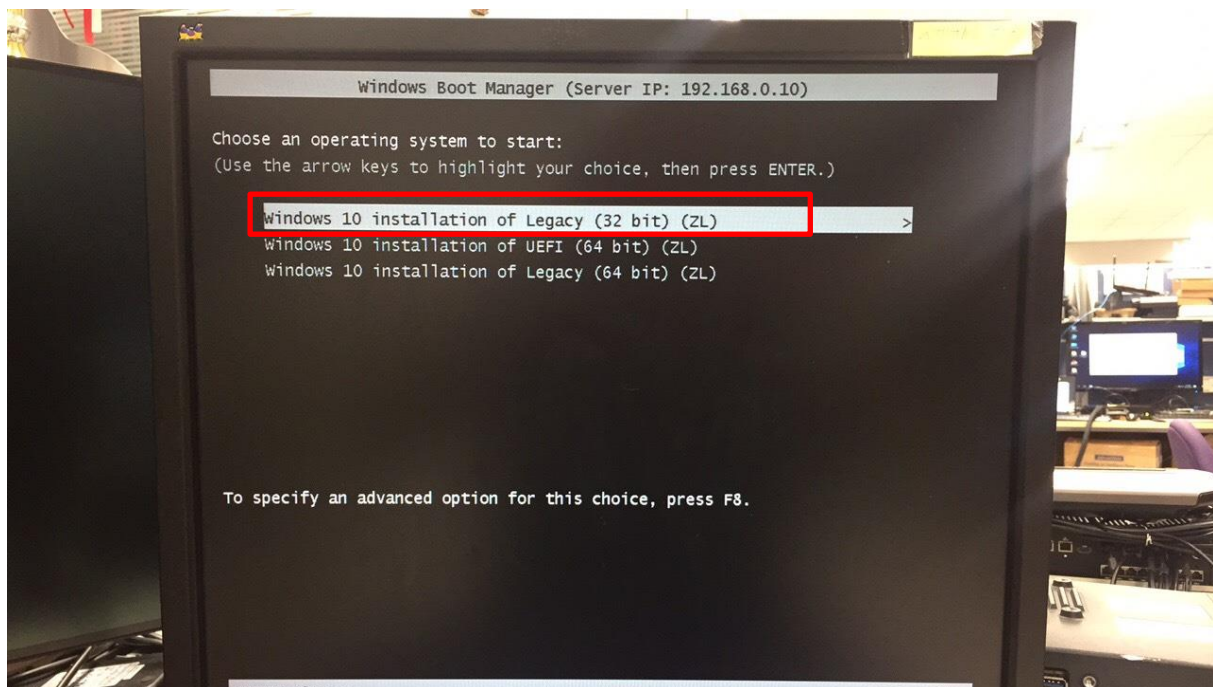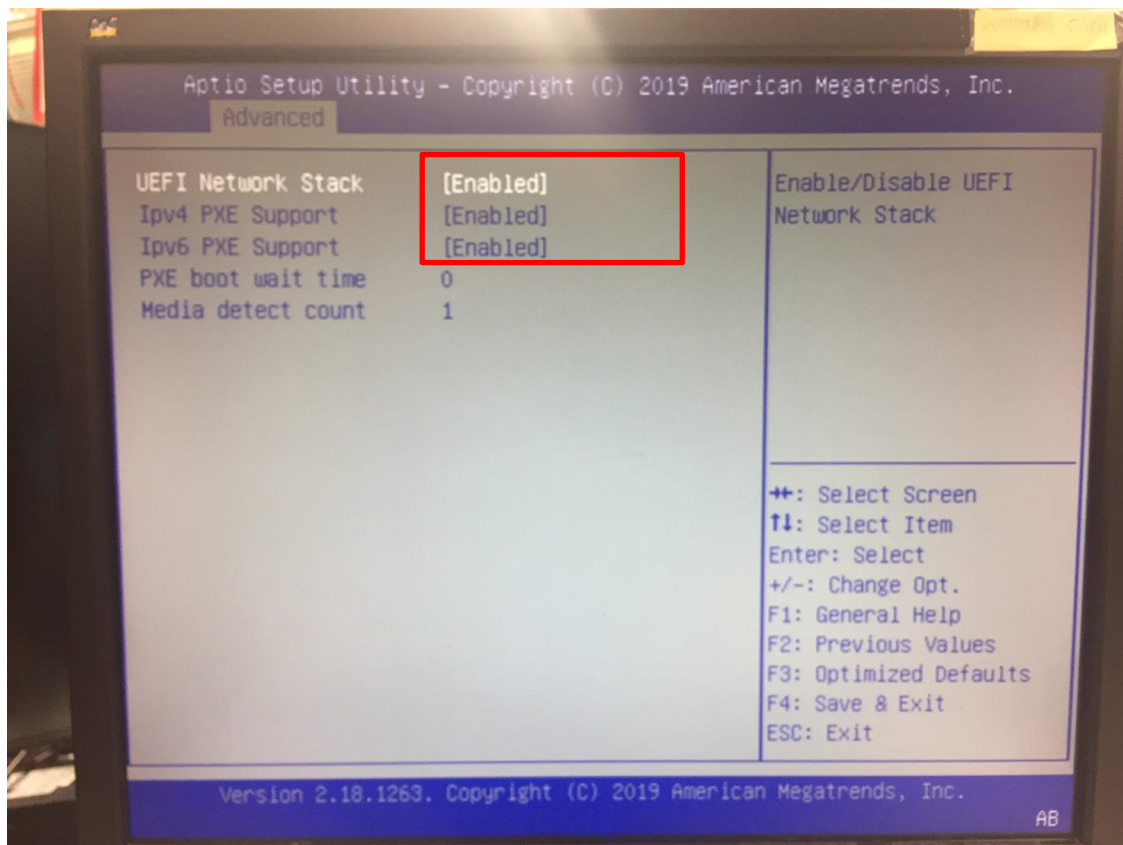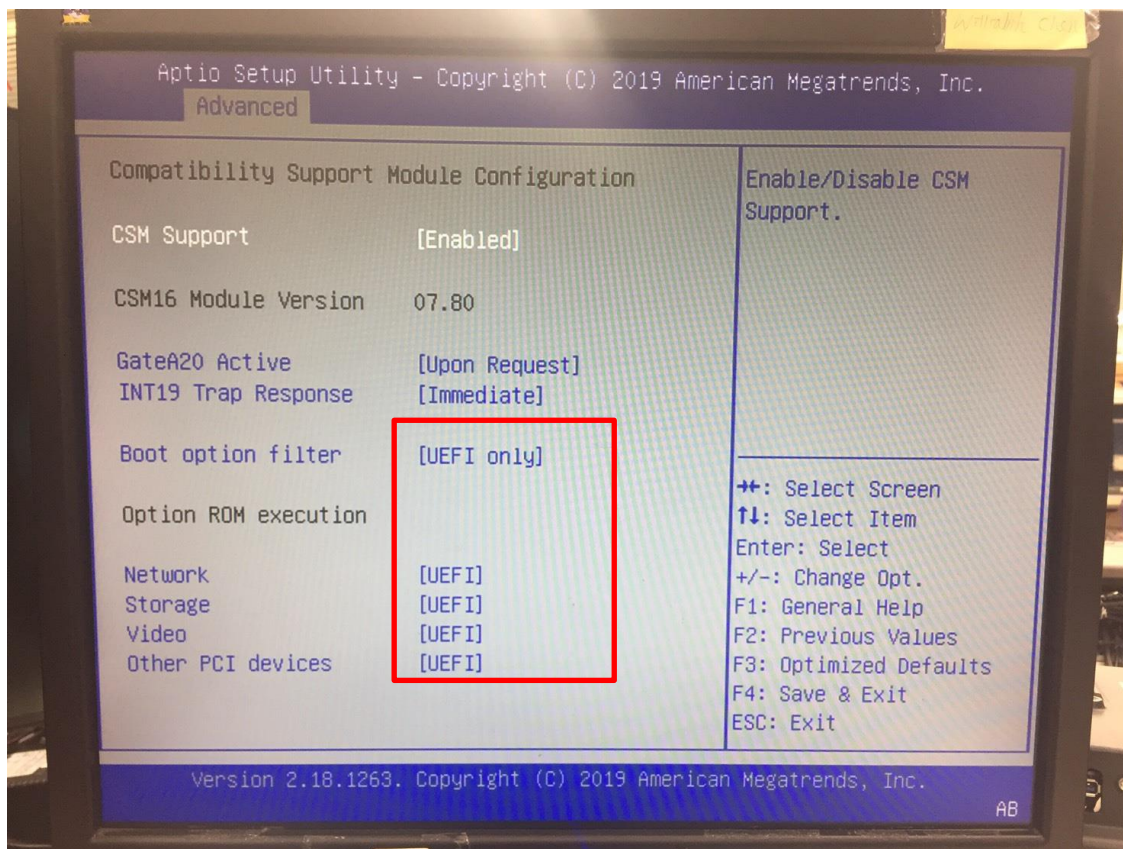
Make sure the all of BIOS setting:

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

AB

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

AB

Please tap the "Enter" right now.

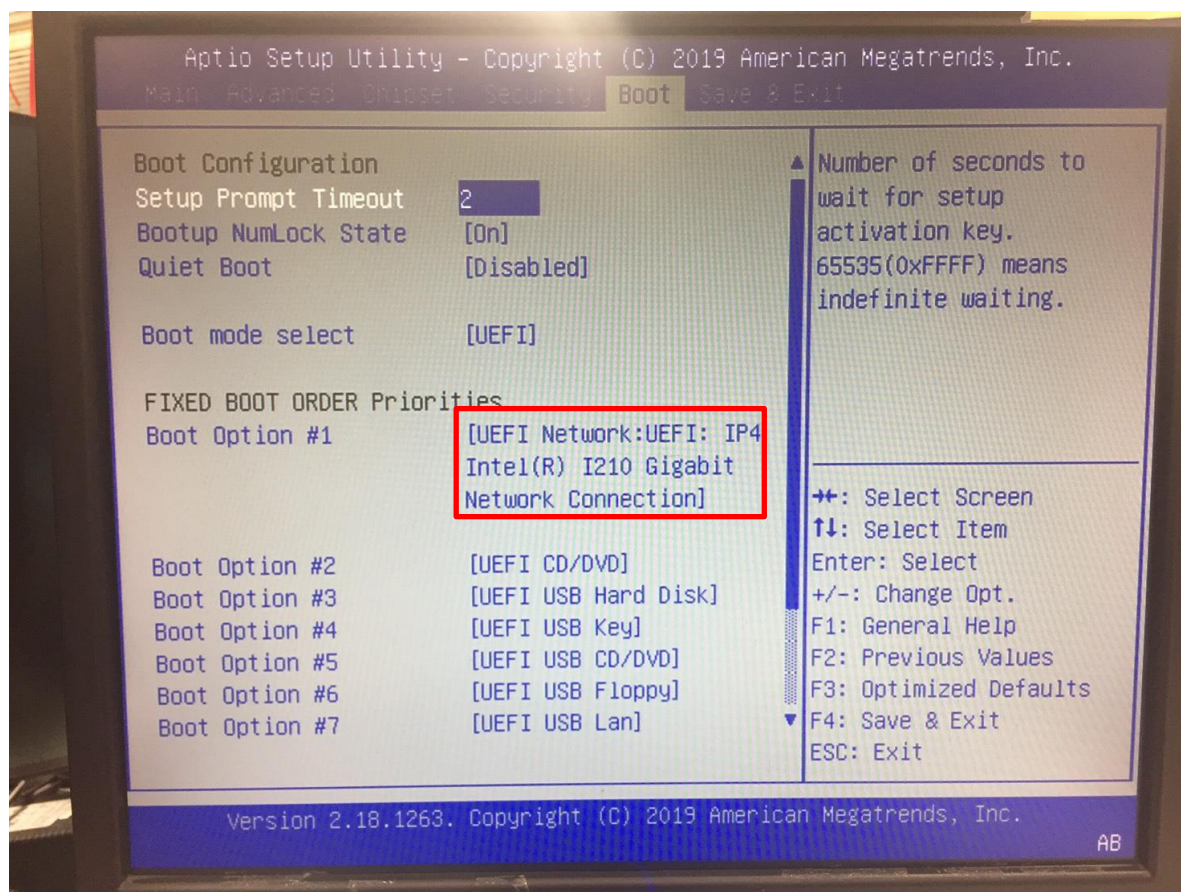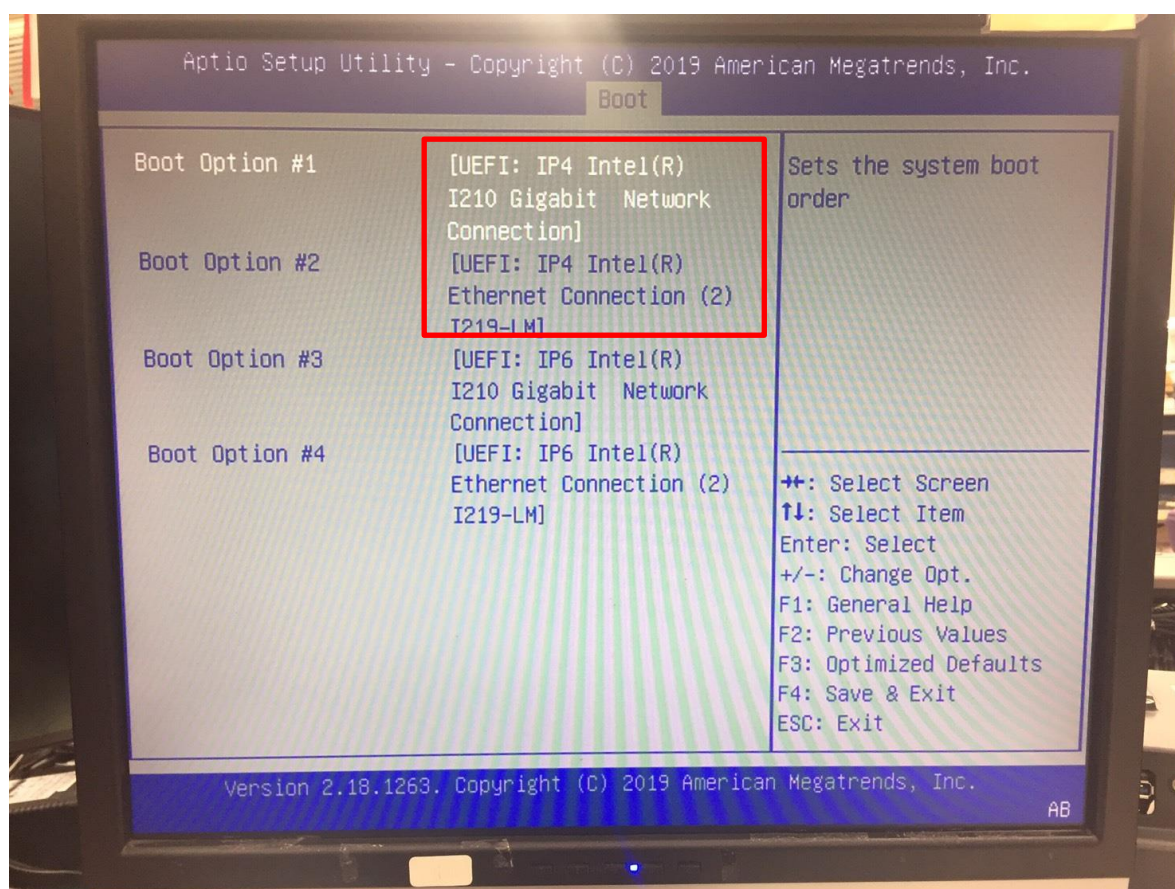Select the "Windows 10 installation of UEFI (64 bit) (ZL)", then "Enter"

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

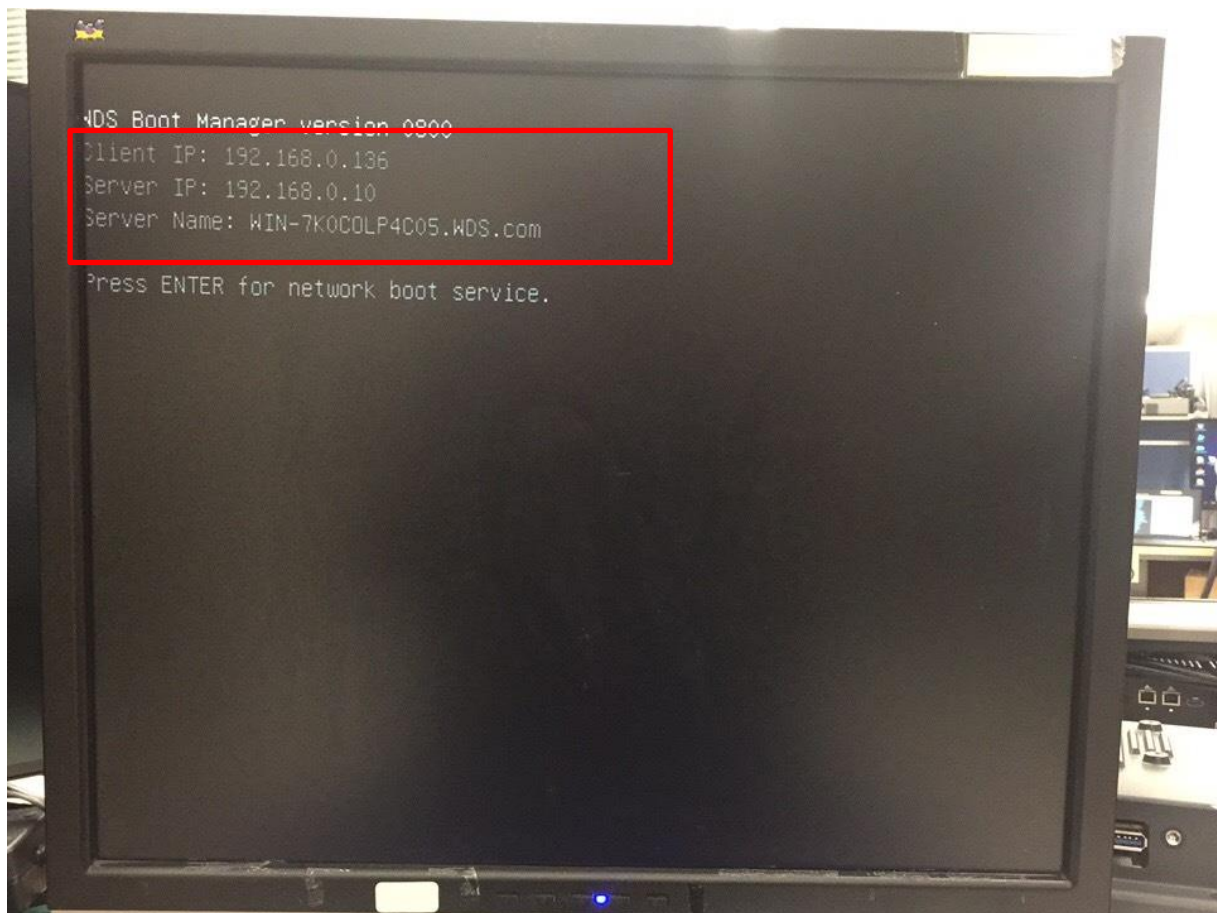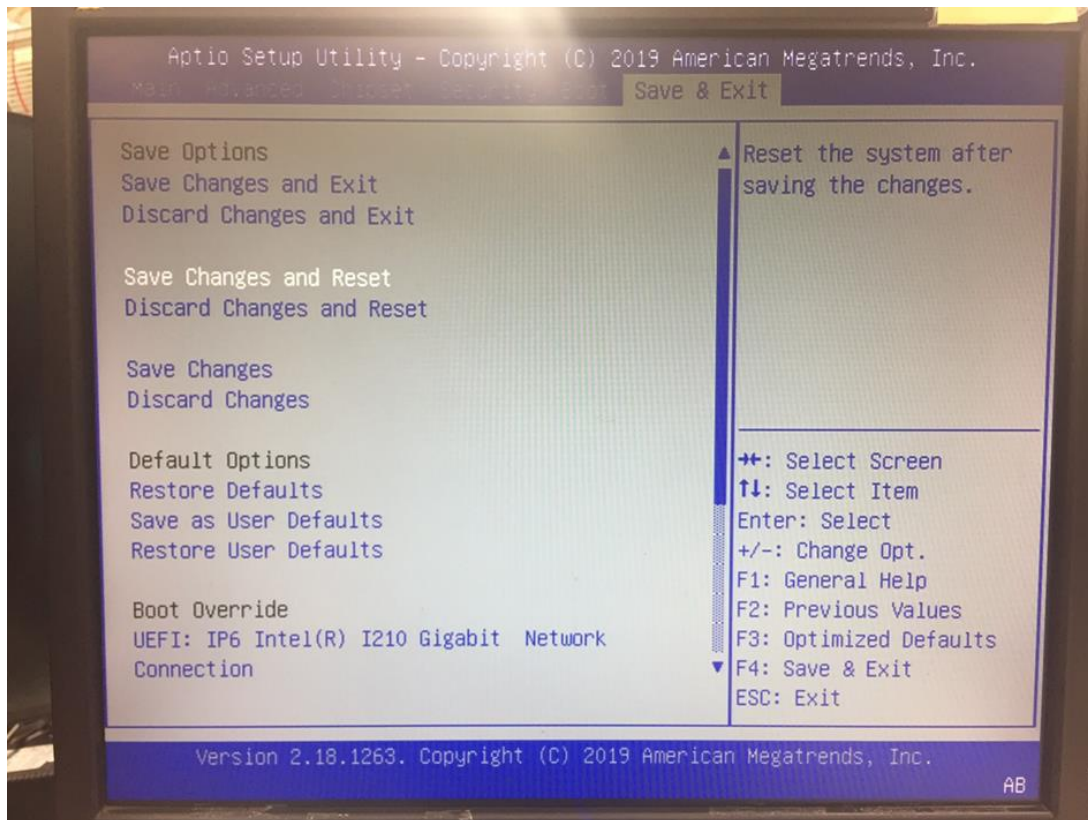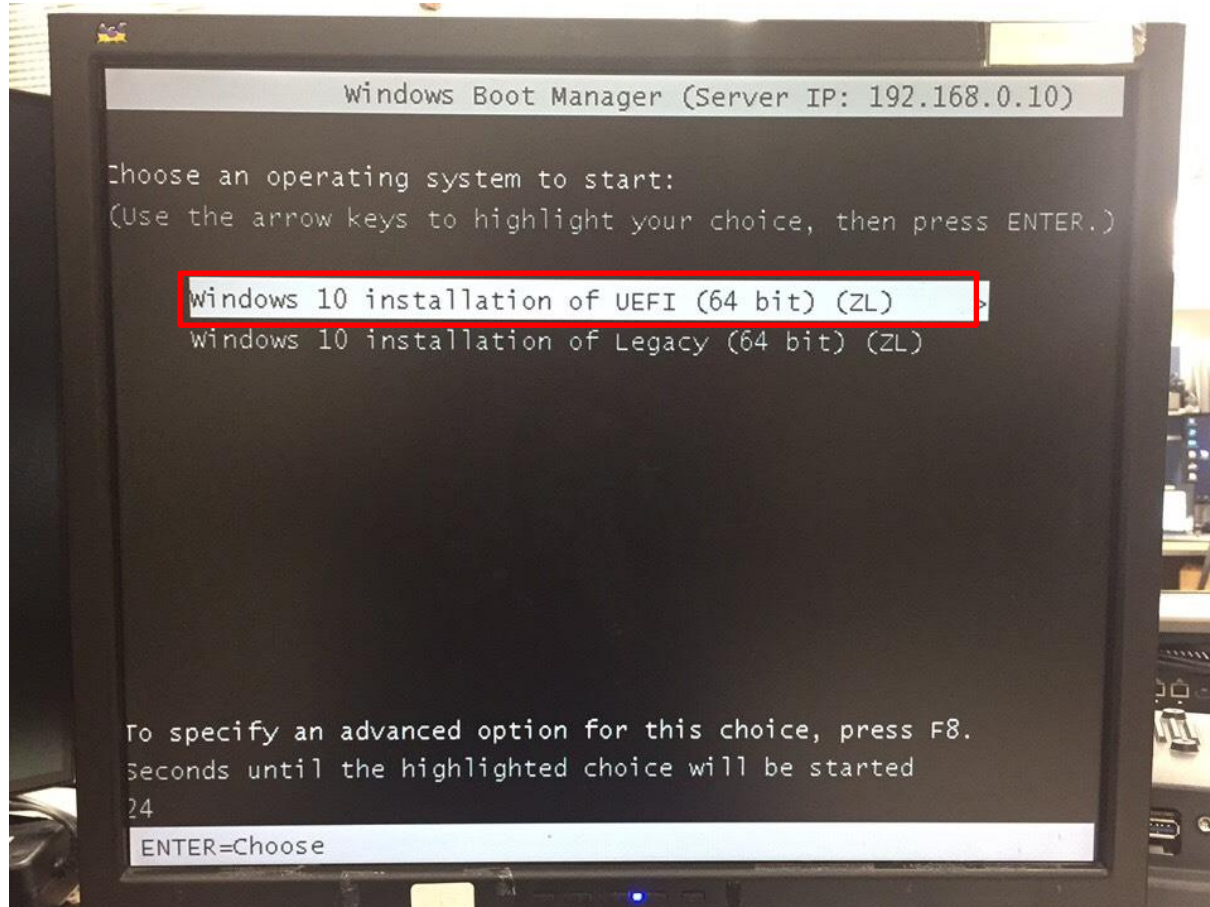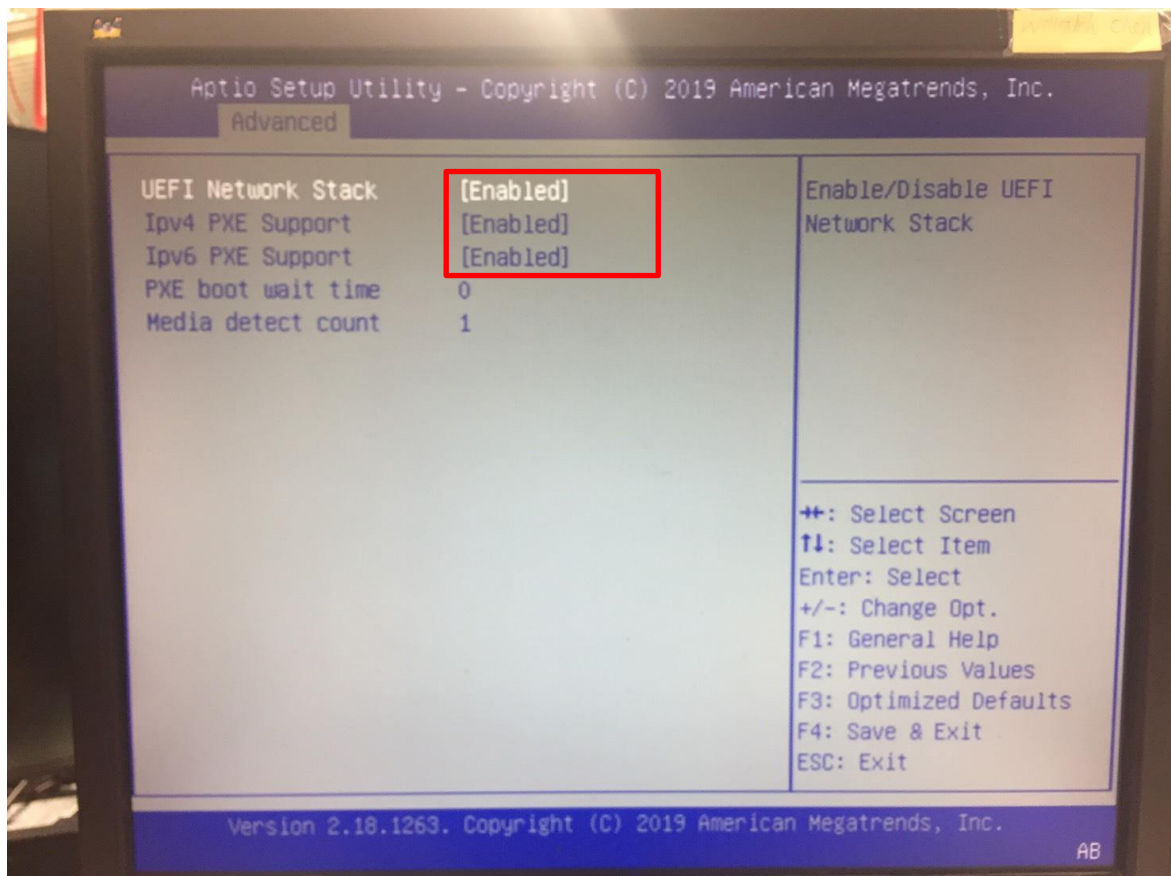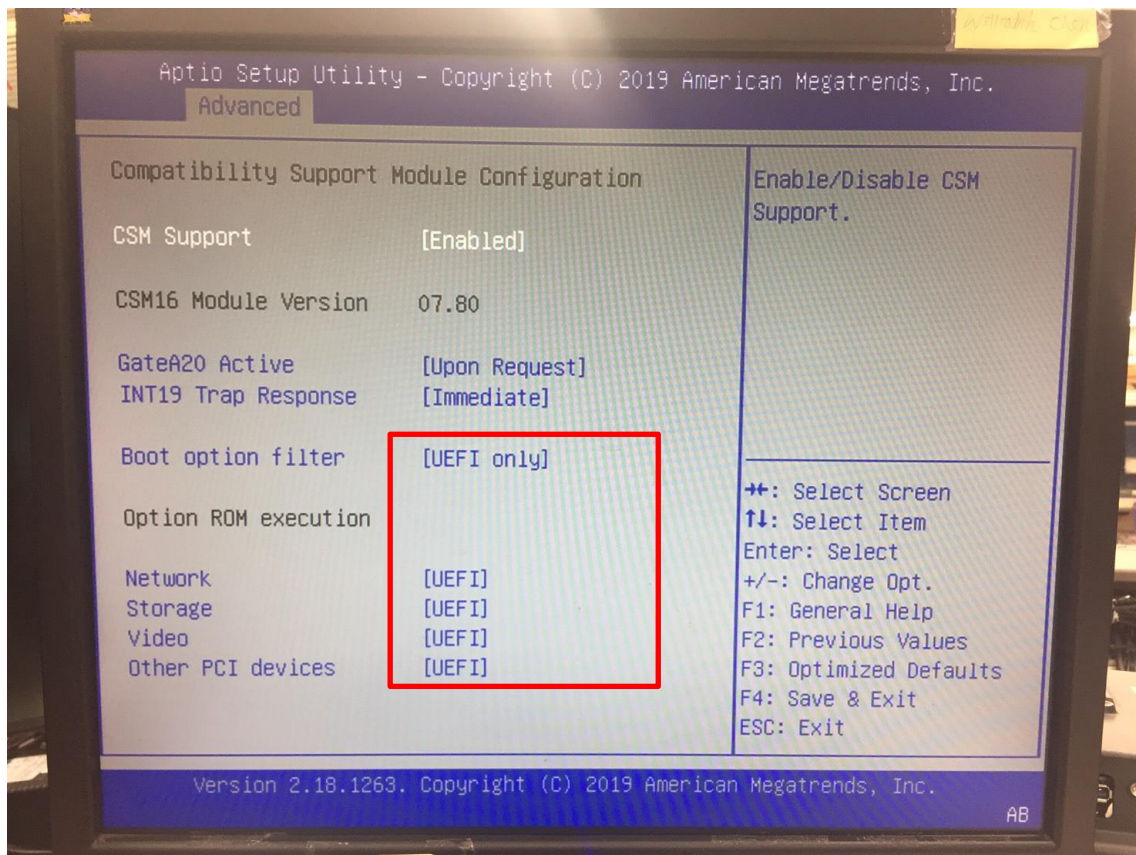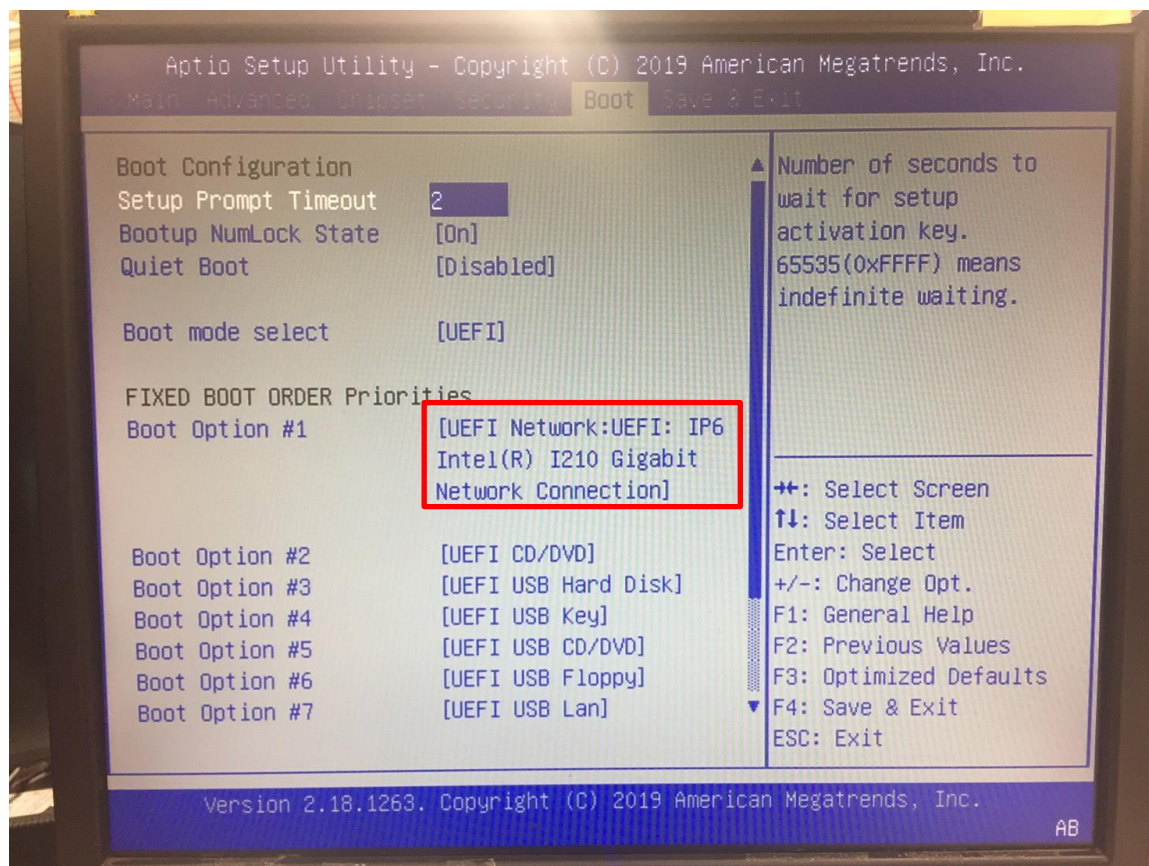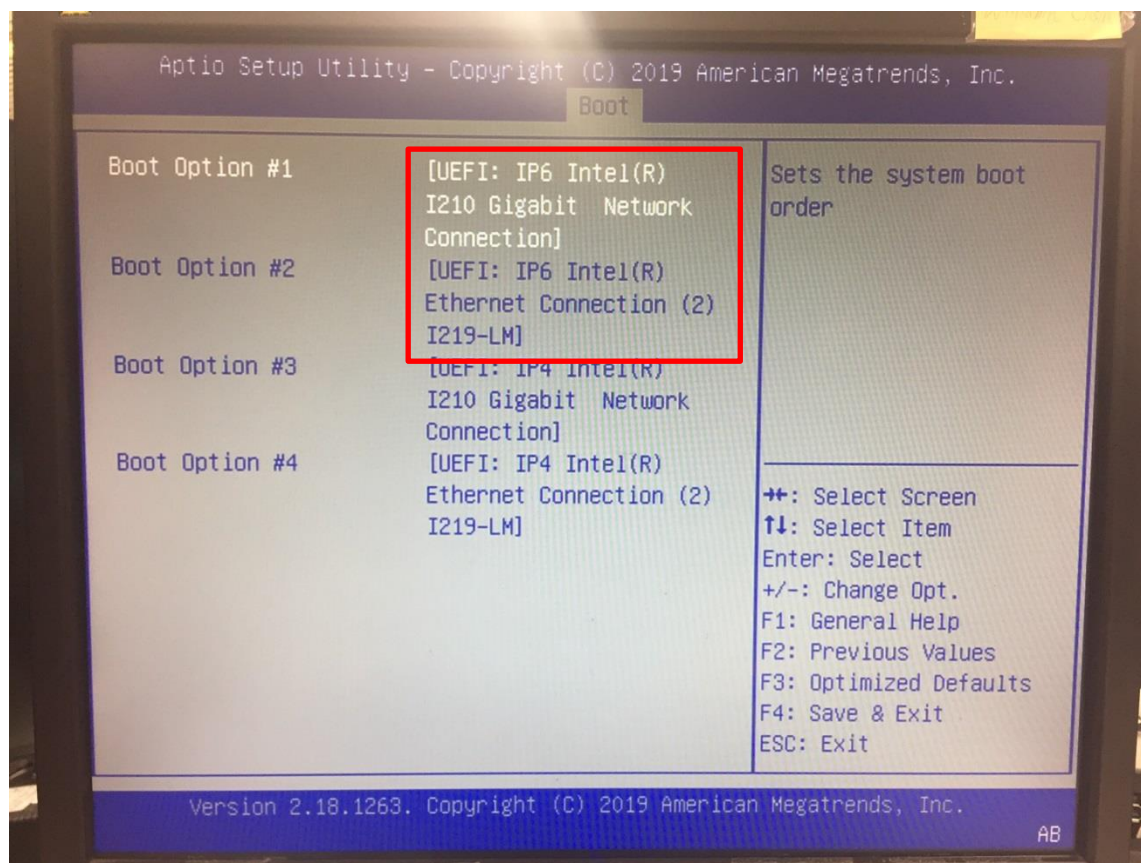Make sure the all of BIOS setting:

Aptio Setup Utility – Copyright (C) 2019 American Megatrends, Inc.
Boot

Boot Option #1	[UEFI: IP6 Intel(R) I210 Gigabit Network Connection]	Sets the system boot order
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]	⟷: 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

Aptio Setup Utility – Copyright (C) 2019 American Megatrends, Inc.
Main   Advanced   Chipset   Security   Boot   Save & Exit

Boot Configuration		Number of seconds to
Setup Prompt Timeout	2	wait for setup
Bootup NumLock State	[On]	activation key.
Quiet Boot	[Disabled]	65535(0xFFFF) means indefinite waiting.
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]	⟷: Select Screen ↑↓: Select Item
Boot Option #3	[UEFI USB Hard Disk]	Enter: Select
Boot Option #4	[UEFI USB Key]	+/-: Change Opt.
Boot Option #5	[UEFI USB CD/DVD]	F1: General Help
Boot Option #6	[UEFI USB Floppy]	F2: Previous Values F3: Optimized Defaults
Boot Option #7	[UEFI USB Lan]	F4: Save & Exit ESC: Exit

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AB

Please tap the "ENTER" right now.

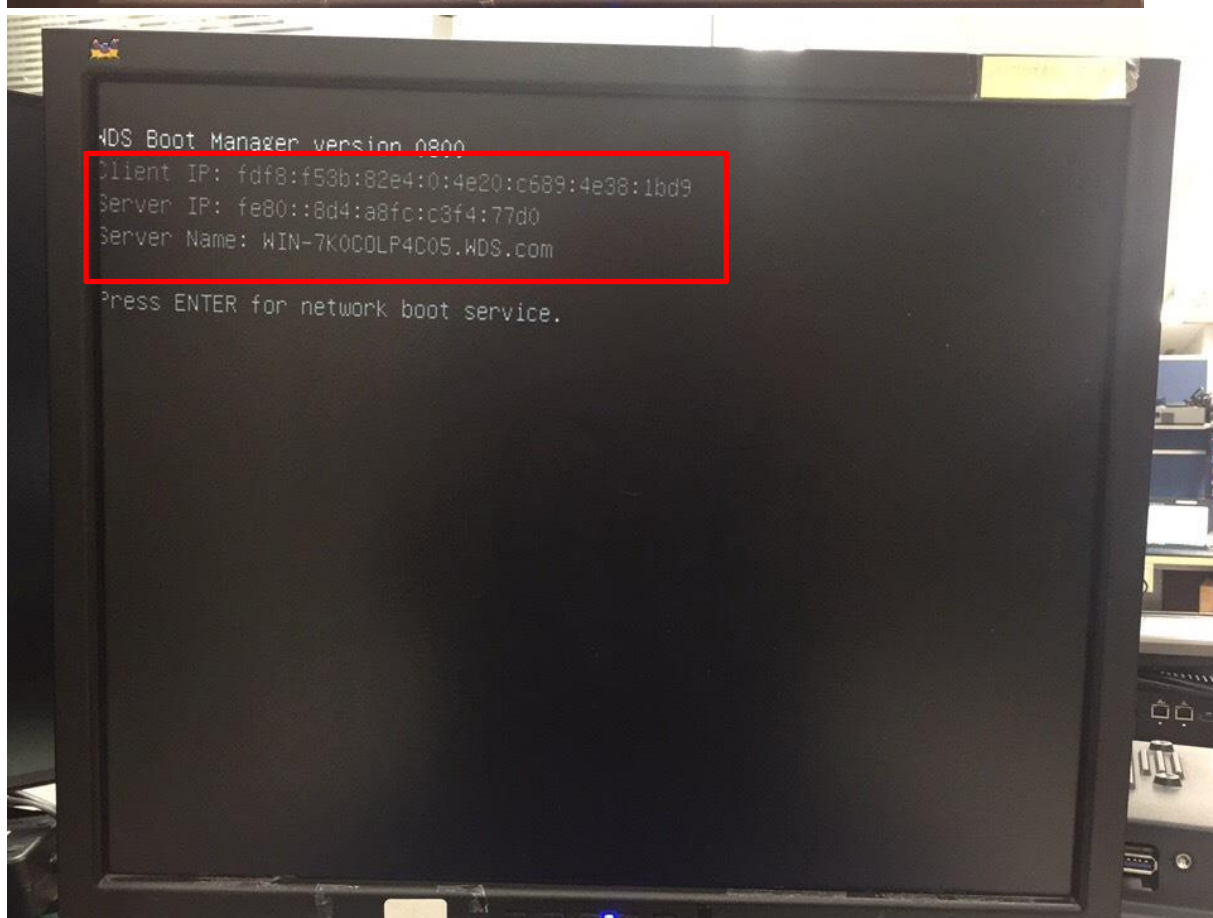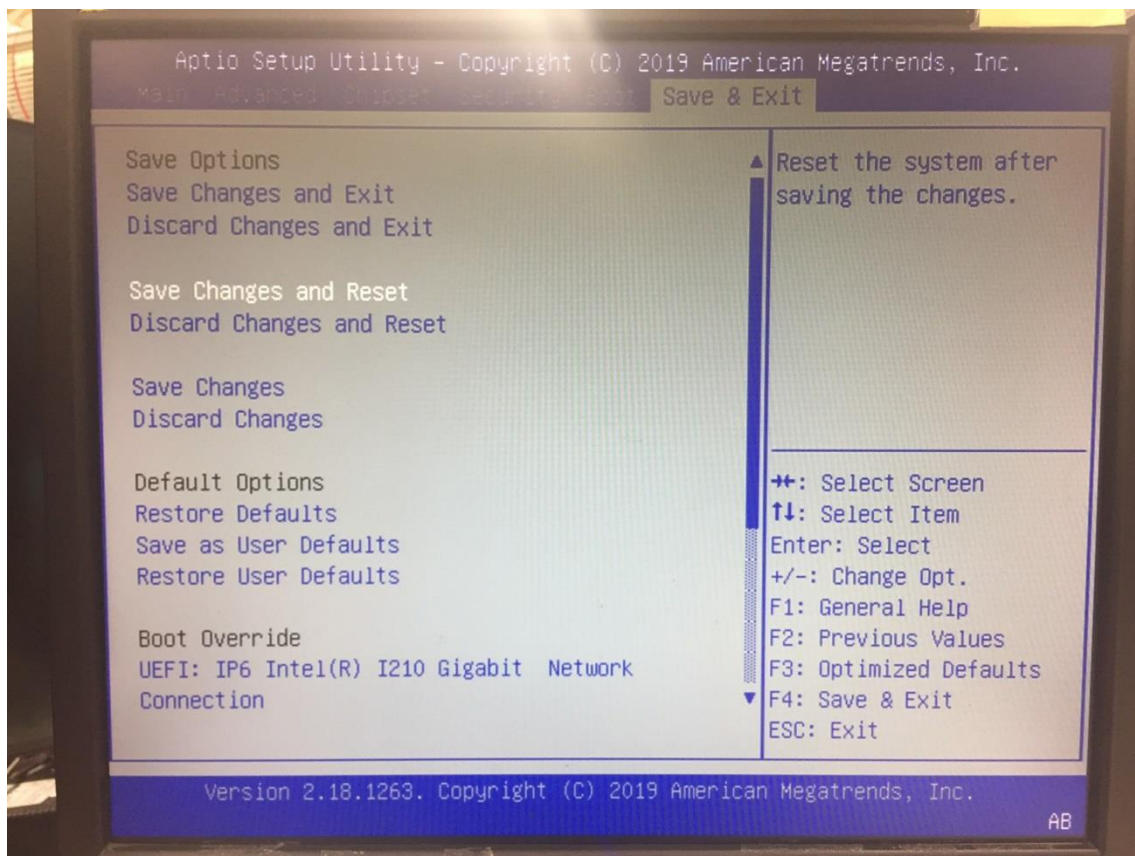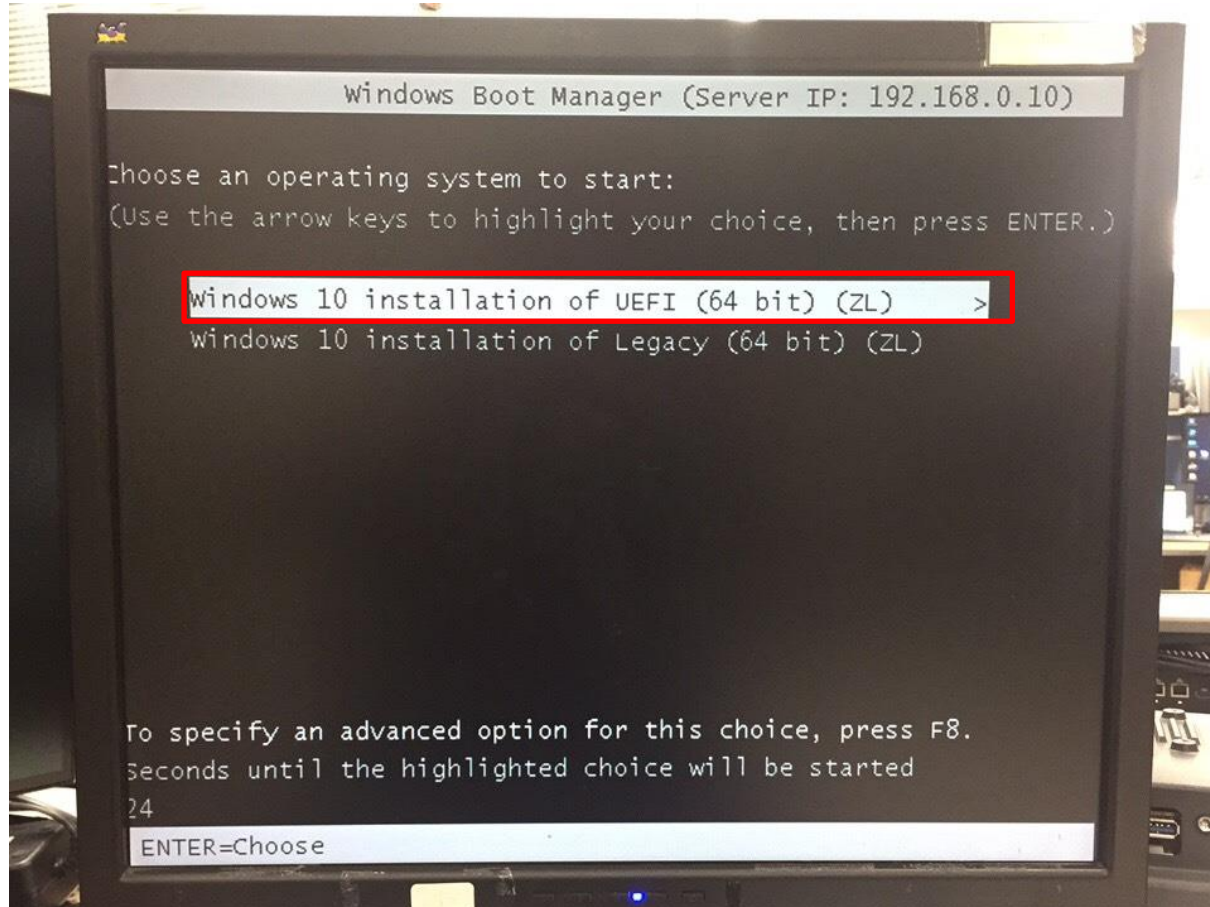Select the "Windows 10 installation of UEFI (64 bit) (ZL)", then "Enter"

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

Getting things ready, please don't turn off your PC