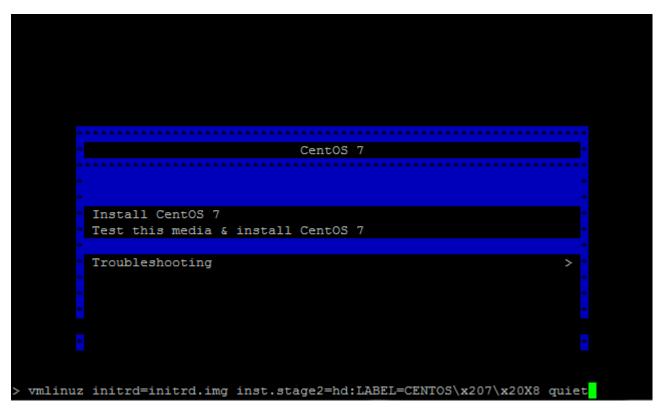
1. Kindly press del key into BIOS, and set "Post & Boot"-> CSM support-> Video as Do not launch The step is disable VGA ROM

Aptio Setup Utili	ty - Copyright (C) 2016 A Post &	
CSM Support Boot option filter Network Storage Uideo Other PCI devices	[Enabled] [UEFI and Legacy] [Do not launch] [Legacy] [Do not launch] [UEFI]	Controls the execution of UEFI and Legacy Video OpROM
		<pre>X: Select Screen t4: Select Item Enter: Select +/-: Change Opt. F1: General Help F2: Previous Values F3: Optimized Defaults F4: Save & Exit ESC: Exit</pre>
Version 2.17.125	5. Copyright (C) 2016 Ame	rican Megatrends, Inc.

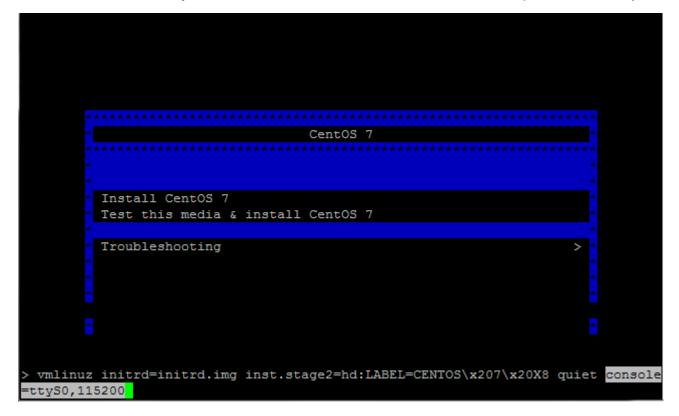
2. Please set CentOS 7 installation media device as first boot device, and console-redirection will show following message.

* CentOS 7	
* Install CentOS 7	
* Test this media & install CentOS 7	
* Troubleshooting	> *
Press Tab for full configuration options on menu items.	

3. Please press "UP" key, and then press "TAB" key, it will show "Install CentOS 7" installation command.



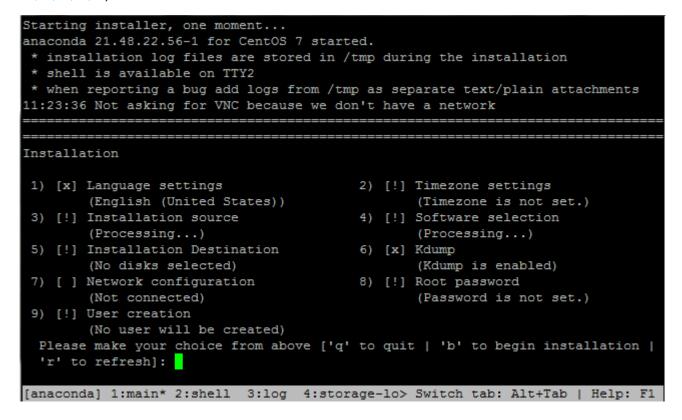
4. Please add "console=ttyS0,115200" in installation command , and then press "Enter key"



5. When console redirection function sets is OK. The console utility will show boot message

ſ	OK]	Stopped target Swap.
[OK]	Stopped target Local File Systems.
ſ	OK]	Stopped target Slices.
[OK]	Stopped target Paths.
[OK]	Stopped udev Kernel Device Manager.
[OK]	Started Plymouth switch root service.
I	OK]	Stopped Open-iSCSI.
			Stopping Device-Mapper Multipath Device Controller
[OK]	Stopped dracut pre-udev hook.
			Stopping dracut pre-udev hook
[OK]	Stopped dracut cmdline hook.
			Stopping dracut cmdline hook
[OK]	Stopped Create Static Device Nodes in /dev.
			Stopping Create Static Device Nodes in /dev
1	OK]	Stopped Create list of required stace nodes for the current kernel.
			Stopping Create list of required st nodes for the current kernel
[OK]	Closed udev Kernel Socket.
[OK]	Closed udev Control Socket.
			Starting Cleanup udevd DB
1	OK]	Stopped Device-Mapper Multipath Device Controller.
[OK]	Started Cleanup udevd DB.
[OK]	Reached target Switch Root.
			Starting Switch Root

Following message is "CentOS-1511" console installation, it needs sting all [!] items (item 1, 2, 3, 4, 5, 8, 9)



7. Please choose item2 to set Timezone,

Plea	ase make your choi	ce from ab	ove ['q' to quit	l'b' to b	egin installation
	to refresh]: 2				
Time	ezone settings				
Avai	lable regions				
1)	Africa	6)	Atlantic	10)	Pacific
2)	America	7)	Australia	11)	US
3)	Antarctica	8)	Europe	12)	Etc
4)	Arctic	9)	Indian		
5)	Asia				
Plea	ase select the tim	lezone.			
	numbers or type n		tly [b to region	list, q to	quit]:
we	may choose 5 (Asia	a)			
Use	numbers or type n	ames direc	tly [b to region	list, q to	quit]: <mark>5</mark>
Time	ezone settings				
Avai	lable timezones i	n region A	sia		
1)	Aden	28)	Irkutsk	54)	Pyongyang
2)	Almaty	29)	Jakarta	55)	Qatar
3)	Amman	30)	Jayapura	56)	Qyzylorda
4)	Anadyr	31)	Jerusalem	57)	Rangoon
5)	Aqtau	32)	Kabul	58)	Riyadh
6)	Aqtobe	33)	Kamchatka	59)	Sakhalin
7)	Ashgabat	34)	Karachi	60)	Samarkand
8)	Baghdad	35)	Kathmandu	61)	Seoul
9)	Bahrain	36)	Khandyga	62)	Shanghai
10)	Baku	37)	Kolkata	63)	Singapore
11)	Bangkok	38)	Krasnoyarsk	64)	Srednekolymsk
12)	Beirut	39)	Kuala_Lumpur	65)	Taipei
13)	Bishkek	40)	Kuching	66)	Tashkent
14)	Brunei	41)	Kuwa i t	67)	Tbilisi
15)	Chita	42)	Macau	68)	Tehran
16)	Choibalsan	43)	Magadan	69)	Thimphu
17)	Colombo	44)	Makassar	70)	Tokyo
18)	Damascus	45)	Manila	71)	Ulaanbaatar
19)	Dhaka	46)	Muscat	72)	Urumqi

20)	Dili	47)	Nicosia	73)	Ust-Nera
20)	Dubai	48)	Novokuznetsk	74)	Vientiane
22)	Dushanbe	49)	Novosibirsk		Vladivostok
	s ENTER to continue	ч <i>)</i>)	NOVOSIOIISK	13)	Viadivostok
1100	S ENTER to continue				
lt r	needs pressing "Enter ke	v" to c	continue message		
23)	Gaza	50)	Omsk	76)	Yakutsk
24)	Hebron	51)	Oral	77)	Yekaterinburg
25)	Ho_Chi_Minh	52)	Phnom_Penh	78)	Yerevan
26)	Hong_Kong	53)	Pontianak		
27)	Hovd				
Plea	se select the timezone				
Use	numbers or type names	direc	ctly [b to region list	,qto	oquit]:
We	may choose 61 (Seoul)	to fini	sh Timezone setting		
Plea	se select the timezone	2.			
II.	mumbers on trues nomes	1 .			
020	numbers or type names	direc	tly [b to region list	,qto	quitj: 61
	numbers of type names	d1rec 	ctly [b to region list	, q to =====) quitj: 61
		d1rec 	ctly [b to region list	, q to 	o quitj: 61
	allation	d1rec 	etly [b to region list	, q to 	o quitj: 61
==== ==== Inst	allation	d1rec 			
==== ==== Inst	allation [x] Language settings	<u></u>	 2) [x] Tim	ezone	settings
===== Inst 1)	allation [x] Language settings (English (United S	States	2) [x] Tim 5)) (As	ezone i a/Sec	settings oul timezone)
===== Inst 1)	allation [x] Language settings (English (United S [x] Installation sourc	States	2) [x] Tim 5)) (As 4) [!] Sof	ezone i a/Sec tware	settings oul timezone) selection
===== Inst 1) 3)	allation [x] Language settings (English (United S [x] Installation sourc (Local media)	States ce	2) [x] Tim 5)) (As 4) [!] Sof (Mi	ezone ia/Sec tware nimal	settings oul timezone)
===== Inst 1) 3)	allation [x] Language settings (English (United S [x] Installation source (Local media) [!] Installation Desti	States	2) [x] Tim (As 4) [!] Sof (Mi on 6) [x] Kdu	ezone ia/Sec tware nimal mp	settings oul timezone) selection Install)
Inst 1) 3) 5)	allation [x] Language settings (English (United S [x] Installation source (Local media) [!] Installation Destii (No disks selected	States ce inatic	2) [x] Tim (As 4) [!] Sof (Mi on 6) [x] Kdu (Kd	ezone ia/Sec tware nimal mp ump is	settings oul timezone) selection Install) s enabled)
Inst 1) 3) 5)	allation [x] Language settings (English (United S [x] Installation source (Local media) [!] Installation Destii (No disks selected [] Network configurat	States ce inatic	2) [x] Tim (As 4) [!] Sof (Mi on 6) [x] Kdu (Kd 8) [!] Roo	ezone ia/Sec tware nimal mp ump is t pass	settings oul timezone) selection Install) senabled) sword
==== Inst 1) 3) 5) 7)	<pre>allation [x] Language settings (English (United S [x] Installation source (Local media) [!] Installation Destii (No disks selected [] Network configurate (Not connected)</pre>	States ce inatic	2) [x] Tim (As 4) [!] Sof (Mi on 6) [x] Kdu (Kd 8) [!] Roo	ezone ia/Sec tware nimal mp ump is t pass	settings oul timezone) selection Install) s enabled)
==== Inst 1) 3) 5) 7)	<pre>allation [x] Language settings (English (United S [x] Installation source (Local media) [!] Installation Destii (No disks selected [] Network configurate (Not connected) [!] User creation</pre>	States ce inatic 1) tion	2) [x] Tim (As 4) [!] Sof (Mi on 6) [x] Kdu (Kd 8) [!] Roo (Pa	ezone ia/Sec tware nimal mp ump is t pass	settings oul timezone) selection Install) senabled) sword
Inst 1) 3) 5) 7) 9)	<pre>allation [x] Language settings (English (United S [x] Installation source (Local media) [!] Installation Destin (No disks selected [] Network configurate (Not connected) [!] User creation (No user will be completed)</pre>	States ce ination tion	2) [x] Tim (As 4) [!] Sof (Mi on 6) [x] Kdu (Kd 8) [!] Roo (Pa ed)	ezone ia/Sec tware nimal mp ump is t pass ssword	settings oul timezone) selection Install) e enabled) sword l is not set.)
<pre>Inst I) 3) 5) 7) 9) P1</pre>	<pre>allation [x] Language settings (English (United S [x] Installation source (Local media) [!] Installation Destii (No disks selected [] Network configurate (Not connected) [!] User creation</pre>	States ce ination tion	2) [x] Tim (As 4) [!] Sof (Mi on 6) [x] Kdu (Kd 8) [!] Roo (Pa ed)	ezone ia/Sec tware nimal mp ump is t pass ssword	settings oul timezone) selection Install) e enabled) sword l is not set.)

 Please choose item3 to set Installation source , if your installation source is CD/DVD, please press 1

	make your choice from above ['q' to quit 'b' to begin installation to refresh]: 3
Insta	lation source
Choos	an installation source type.
1)	D/DVD
2)	ocal ISO file
3)	etwork
Ple	se make your choice from above ['q' to quit 'c' to continue
'r'	to refresh]: 1

Installation

10. Please choose item4 to set Software selection

```
Please make your choice from above ['q' to quit | 'b' to begin installation |
  'r' to refresh]: 4
Base environment
Software selection
Base environment
                                      7) [] Server with GUI
1) [x] Minimal Install
 2) [] Compute Node
                                      8) [] GNOME Desktop
3) [] Infrastructure Server
                                      9) [] KDE Plasma Workspaces
 4) [] File and Print Server
                                      10) [] Development and Creative Work
5) [] Basic Web Server
                                               station
 6) [] Virtualization Host
 Please make your choice from above ['q' to quit | 'c' to continue |
 'r' to refresh]:
```

Please make your choice from above ['q' to quit | 'c' to continue | 'r' to refresh]: 10 Base environment Software selection Base environment 1) [] Minimal Install 7) [] Server with GUI 2) [] Compute Node 8) [] GNOME Desktop 3) [] Infrastructure Server 9) [] KDE Plasma Workspaces 4) [] File and Print Server 10) [x] Development and Creative Work 5) [] Basic Web Server station 6) [] Virtualization Host Please make your choi

Recommending choose "10" to install Development and Creative Work station

Please press "c" to continue installation, item 4 needs some time to finish setting,

Please make your choice from above ['q' to quit | 'c' to continue | 'r' to refresh]: c

Installation

- 1) [x] Language settings (English (United States))
- 3) [!] Installation source (Processing...)
- 5) [!] Installation Destination (No disks selected)
- 7) [] Network configuration (Not connected)

9) [!] User creation

(No user will be created)

- 2) [x] Timezone settings (Asia/Seoul timezone)
- 4) [!] Software selection (Processing...)
- 6) [x] Kdump (Kdump is enabled)
- 8) [!] Root password (Password is not set.)

Please make your choice from above ['q' to quit | 'b' to begin installation | 'r' to refresh]:

11. Please choose item5 to set Installation Destination, my system is installing a WDC 750G HDD,

```
Please make your choice from above ['q' to quit | 'b' to begin installation |
'r' to refresh]: 5
```

Probing storage... Installation Destination

[] 1) WDC WD7500BPKX-0: 698.64 GiB (sda)

[] 2) SanDisk Ultra: 14.44 GiB (sdb)

[] 3) Select all

No disks selected; please select at least one disk to install to.

Please make your choice from above ['q' to quit | 'c' to continue |

I choose WDC 750G as Installation Destination

```
Please make your choice from above ['q' to quit | 'c' to continue |
'r' to refresh]: 1
```

```
Probing storage...
Installation Destination
[x] 1) WDC WD7500BPKX-0: 698.64 GiB (sda)
[ ] 2) SanDisk Ultra: 14.44 GiB (sdb)
[ ] 3) Select all
1 disk selected; 698.64 GiB capacity; 1880.5 KiB free ...
Please make your choice from above ['q' to quit | 'c' to continue |
    'r' to refresh]:
```

Please press c to continue to install, and then installation will show following message, Recommending user choose item 2 (Use All Space)

```
Please make your choice from above ['q' to quit | 'c' to continue |
    'r' to refresh]:c
Autopartitioning Options
[ ] 1) Replace Existing Linux system(s)
[x] 2) Use All Space
[ ] 3) Use Free Space
Installation requires partitioning of your hard drive. Select what space to use
for the install target.
Please make your choice from above ['q' to quit | 'c' to continue |
    'r' to refresh]:
```

Autopartitioning Options chooses finish, please press "c" to continue to install OS.

Autopartitioning Options

[] 1) Replace Existing Linux system(s)

[x] 2) Use All Space

[] 3) Use Free Space

Installation requires partitioning of your hard drive. Select what space to use for the install target.

Please make your choice from above ['q' to quit | 'c' to continue | 'r' to refresh]:c

= Partition Scheme Options
[] 1) Standard Partition
[] 2) Btrfs
[x] 3) LVM
[] 4) LVM Thin Provisioning
Select a partition scheme configuration.
Please make your choice from above ['q' to quit 'c' to continue 'r' to refresh]:

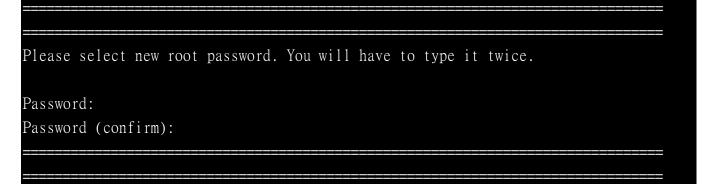
For test, I recommend your choosing item 1 "Standard Partition". and press " c" to continue OS installation,

```
Partition Scheme Options
[x] 1) Standard Partition
[ ] 2) Btrfs
[ ] 3) LVM
[ ] 4) LVM Thin Provisioning
Select a partition scheme configuration.
Please make your choice from above ['q' to quit | 'c' to continue |
    'r' to refresh]:c
Generating updated storage configuration
```

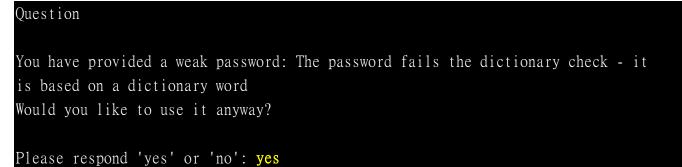
12. Please choose item8 to set Root password.

Installation	
1) [x] Language settings	2) [x] Timezone settings
(English (United States))	(Asia/Seoul timezone)
3) [!] Installation source	4) [!] Software selection
(Processing)	(Processing)
5) [x] Installation Destination	6) [x] Kdump
(Automatic partitioning selecte	(Kdump is enabled)
d)	8) [!] Root password
7) [] Network configuration	(Password is not set.)
(Not connected)	
9) [!] User creation	
(No user will be created)	
Please make your choice from above ['q'	' to quit I 'b' to begin installation I
'r' to refresh]: <mark>8</mark>	

Please keyin password & confirm again.



When password is weak, it will ask customer to double confirm, if you agree weak password, please key-in "yes".



13. Please choose item9 to set user account.

1) [x] Language settings	2) [x] Timezone settings
(English (United States))	(Asia/Seoul timezone)
3) [!] Installation source	4) [!] Software selection
(Processing)	(Processing)
5) [x] Installation Destination	6) [x] Kdump
(Automatic partitioning selecte	(Kdump is enabled)
d)	8) [x] Root password
7) [] Network configuration	(Password is set.)
(Not connected)	
9) [] User creation	
(No user will be created)	
Please make your choice from above ['d	q' to quit 'b' to begin installation
'r' to refresh]: <mark>9</mark>	
User creation	

1) [] Create user
Please make your choice from above ['q' to quit | 'c' to continue |
 'r' to refresh]:

Please press "1" to set user account.

User creation 1) [] Create user Please make your choice from above ['q' to quit | 'c' to continue | 'r' to refresh]: 1

User creation

- 1) [x] Create user
- 2) Fullname
- 3) Username
- 4) [] Use password
- 5) [] Administrator
- 6) Groups

Please press "2" and key in user name.

```
Please make your choice from above ['q' to quit | 'c' to continue |

'r' to refresh]: 2

Enter new value for 'Fullname' and press enter

ae

User creation

1) [x] Create user

2) Fullname

ae

3) Username

ae

4) [] Use password
```

- 5) [] Administrator
- 6) Groups

Please press 4 to set user password

```
Please make your choice from above ['q' to quit | 'c' to continue |

'r' to refresh]: 4

User creation

1) [x] Create user

2) Fullname

ae

3) Username

ae

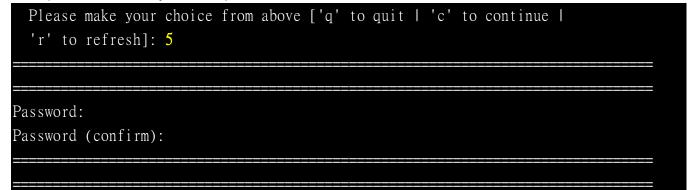
4) [x] Use password

5) Password

6) [ ] Administrator

7) Groups
```

Please press "5" and key-in user password.



When user password is weak, it will ask customer the same question, if you agree weak password, please key-in "yes".

Question
You have provided a weak password: The password fails the dictionary check - it
is based on a dictionary word
Would you like to use it anyway?
Please respond 'yes' or 'no': yes
User creation
1) [x] Create user
2) Fullname
ae
3) Username
ae
4) [x] Use password
5) Password
Password set.
6) [] Administrator
7) Groups

14 When user finishes user account setting, please press "c" to continue. When item 1,2,3,4,5,6,8,9, are setting finish, please press "b" to begin installation

Please make your choice from above ['q' 'r' to refresh]: c	to quit 'c' to continue
Installation	
 [x] Language settings (English (United States)) [x] Installation source (Local media) [x] Installation Destination (Automatic partitioning selecte d) 	 2) [x] Timezone settings (Asia/Seoul timezone) 4) [x] Software selection (Development and Creative Works tation) 6) [x] Kdump (Kdump is enabled)
 7) [] Network configuration (Not connected) 9) [x] User creation (User ae will be created) Please make your choice from above ['q' 'r' to refresh]: b 	<pre>8) [x] Root password (Password is set.) to quit 'b' to begin installation </pre>

The installation will format HDD & install OS's package in HDD,

```
Progress
Setting up the installation environment
.
Creating disklabel on /dev/sda
.
Creating swap on /dev/sda2
.
Creating xfs on /dev/sda5
.
Creating xfs on /dev/sda3
.
Creating xfs on /dev/sda1
.
Starting package installation process
```

15. When OS's package installs finish, it will show following message, please press Enter key to complete installation

```
Performing post-installation setup tasks

Installing boot loader

.

Performing post-installation setup tasks

.

Configuring installed system

.

Writing network configuration

.

Creating users

.

Configuring addons

.

Generating initramfs

.

Running post-installation scripts

.

Use of this product is subject to the license agreement found at
/usr/share/centos-release/EULA

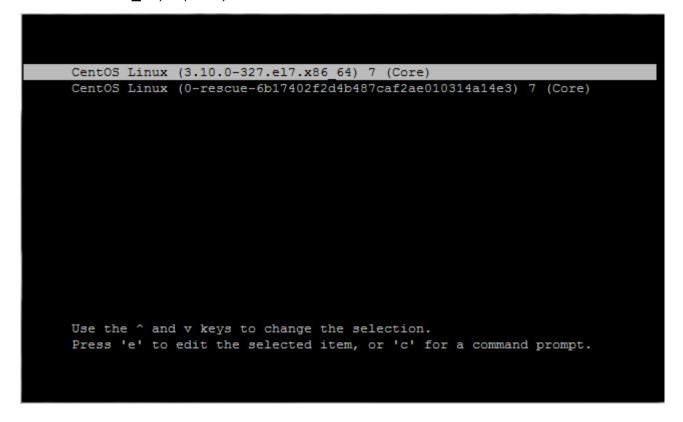
Installation complete. Press return to quit
```

And system will auto reboot.

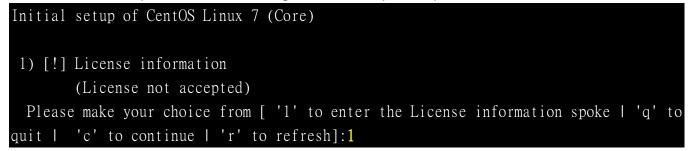
[OK] Stopped Remount Root and Kernel File Systems.
Stopping Remount Root and Kernel File Systems
[OK] Started Restore /run/initramfs.
[OK] Reached target Shutdown.
dracut Warning: Killing all remaining processes
Rebooting.

16. When system reboot, please remove installation media source, or into BIOS sets HDD as boot device,

17. Console utility will show following message at next boot. Please choose "CentOS Linux (3.10.0-327.el7.x86 64) 7 (Core)" to boot in linux



When OS first boot up, it needs user to agree License, please press "1"



And "2" to agree License , and then press "c" to continue

License information 1) Read the License Agreement [] 2) I accept the license agreement. Please make your choice from above ['q' to quit | 'c' to continue | 'r' to refresh]: 2 Please make your choice from above ['q' to quit | 'c' to continue | 'r' to refresh]: c The last step, key-in username & password to login centOS 7-1511

[OK] Reached target Multi-User System. Starting Update UTMP about System Runlevel Changes...
[OK] Started Update UTMP about System Runlevel Changes.
CentOS Linux 7 (Core) Kernel 3.10.0-327.el7.x86_64 on an x86_64
localhost login: root Password: [root@localhost ~]#