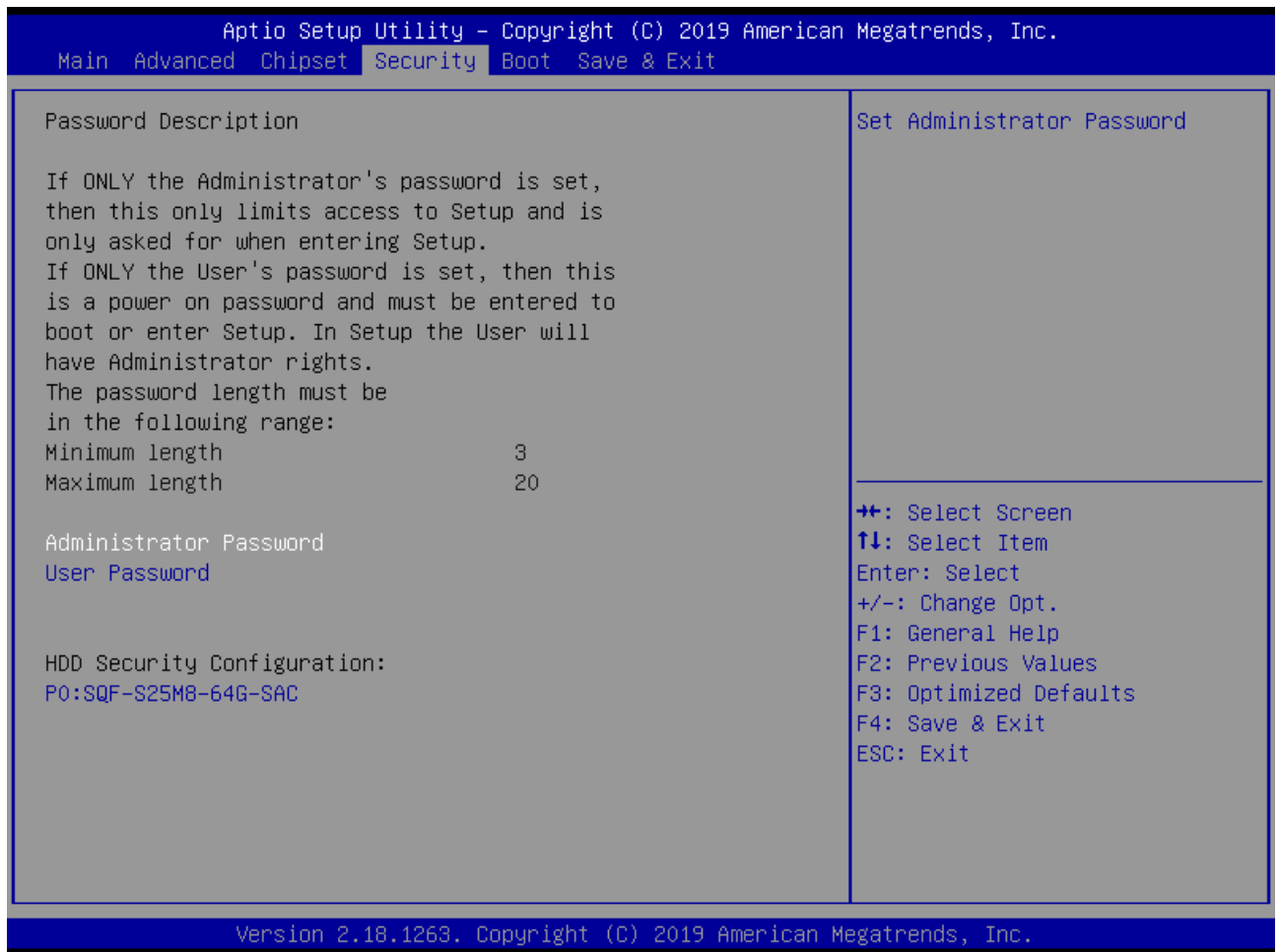


## Advantech AE Technical Share Document

<b>Date</b>	2020 / 1 / 21	<b>Release Note</b>	<input type="checkbox"/> Internal <input checked="" type="checkbox"/> External
<b>Category</b>	<input checked="" type="checkbox"/> FAQ <input type="checkbox"/> SOP	<b>Related OS</b>	
<b>Abstract</b>	Administrator and User password mechanism in AMI BIOS		
<b>Keyword</b>	BIOS, Administrator, User, password		
<b>Related Product</b>	All ASG Products		

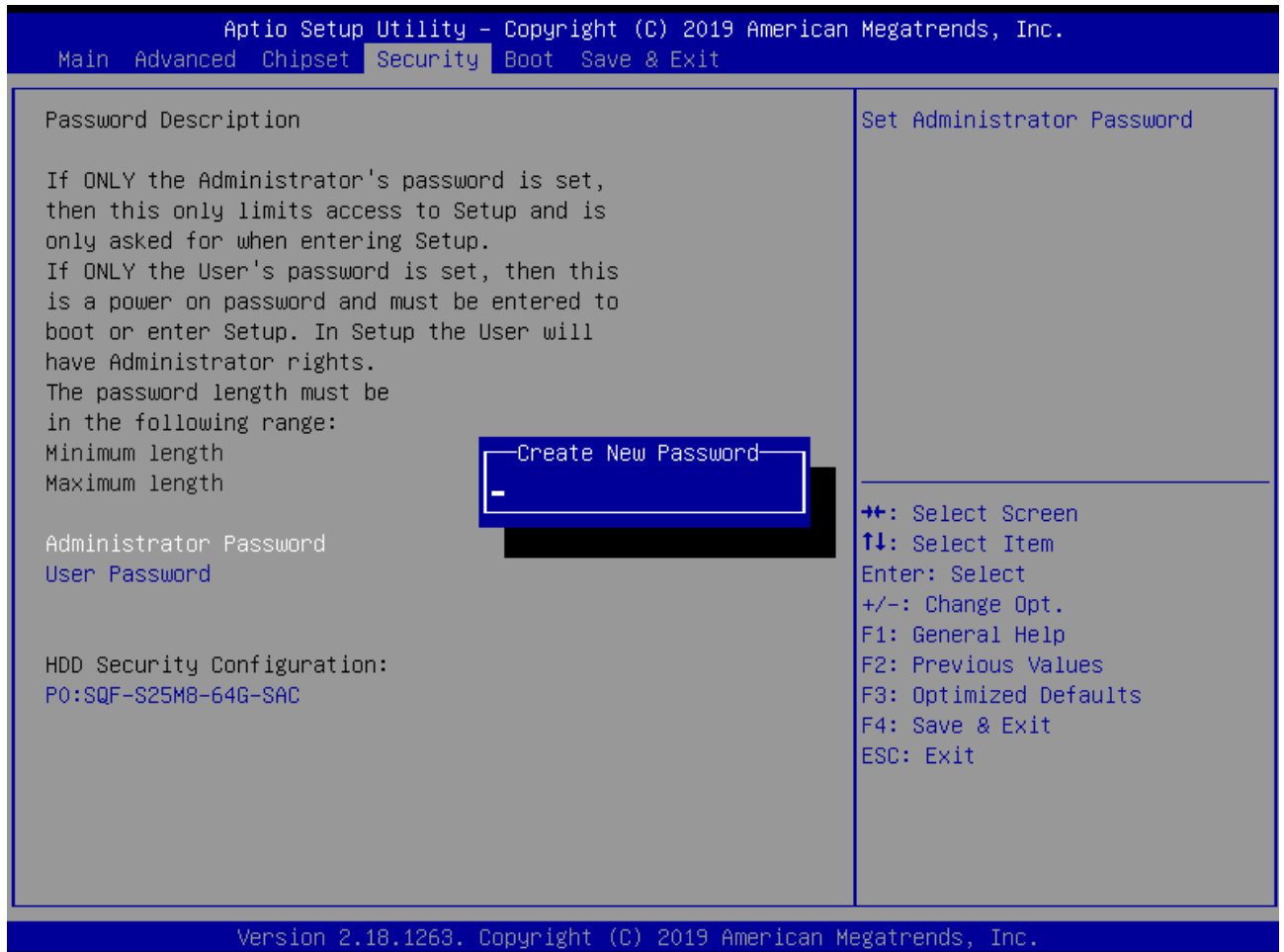
■ **Brief Solution:**

There are two accounts available in AMI BIOS, one is “Administrator” another is “User”. The password setting always can be found in the Security page from BIOS setup. Minimum length for password is 3 words and maximum length is 20 words, passwords can include symbols such as @, #, %, \$.....

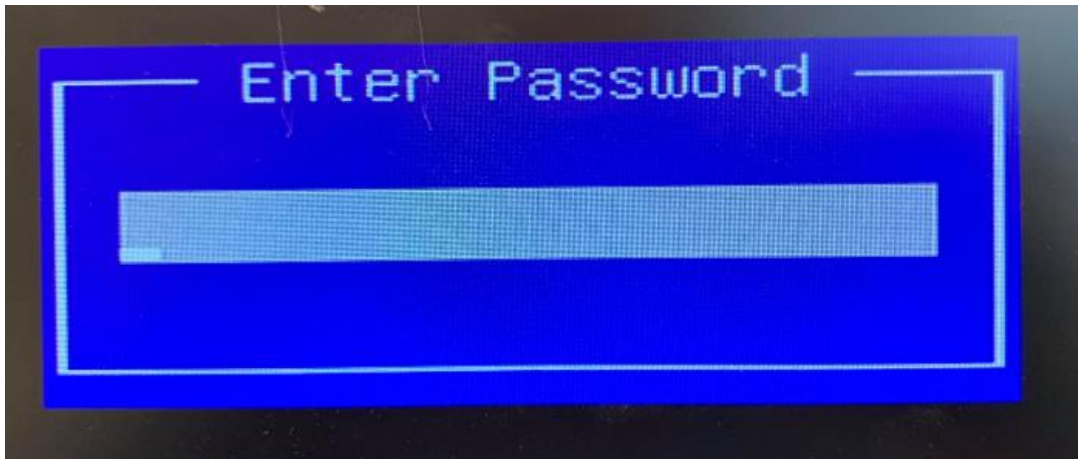


**Setting password for Administrator account:**

If only the administrator's password is set, this only restricts access to the BIOS setup and requires a password only when entering the BIOS setup. If you does not press <del> the unit will boot normal without password prompt.

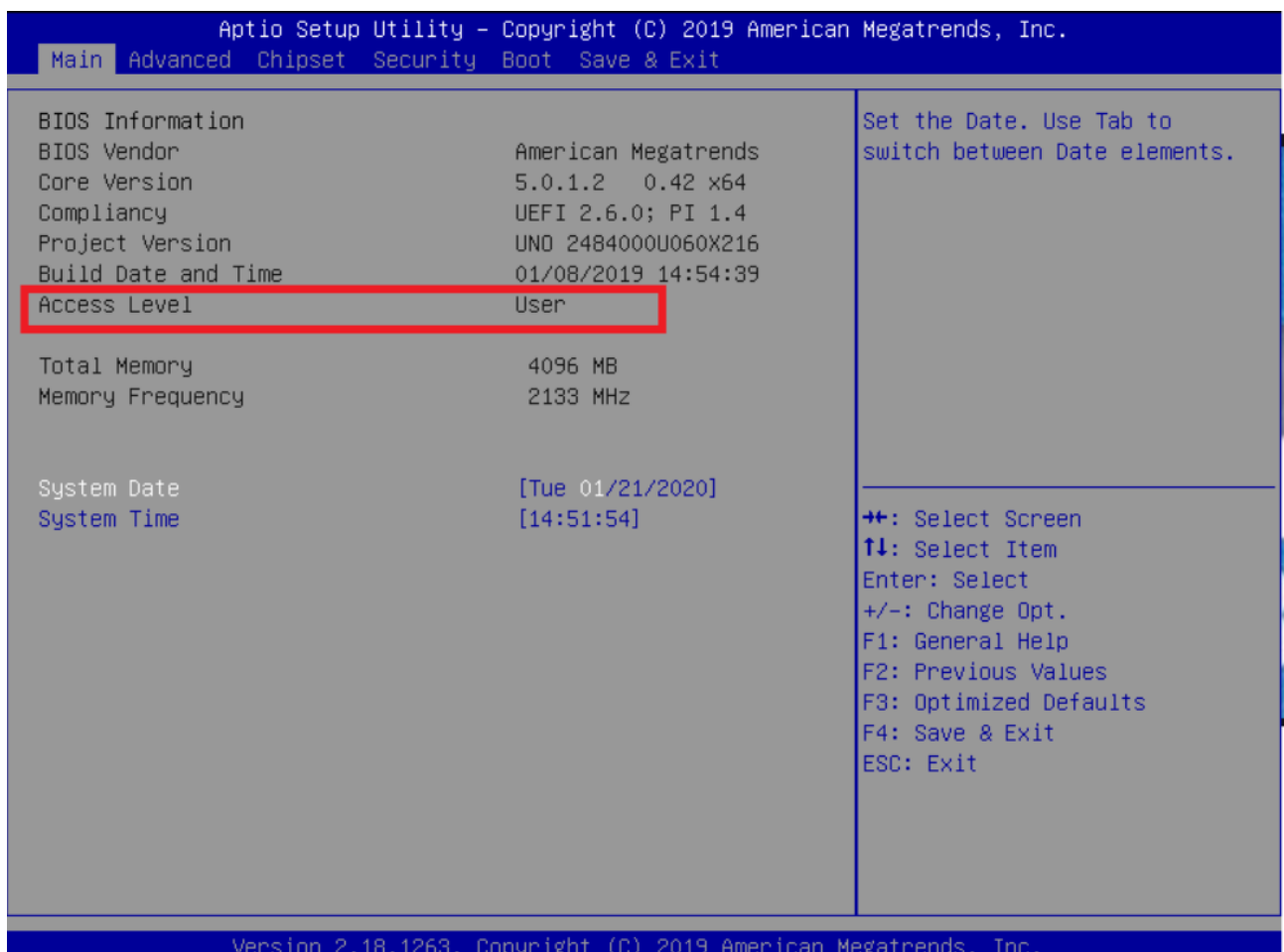


If you press “Enter” without a password input when password prompt, you will enter BIOS setup with “USER mode” not Administrator mode.



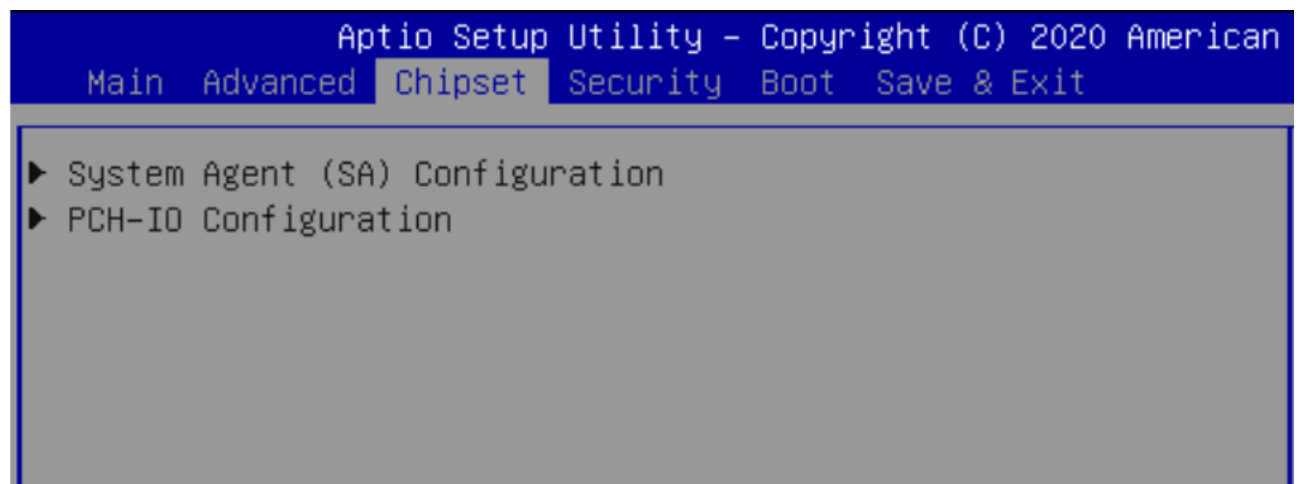
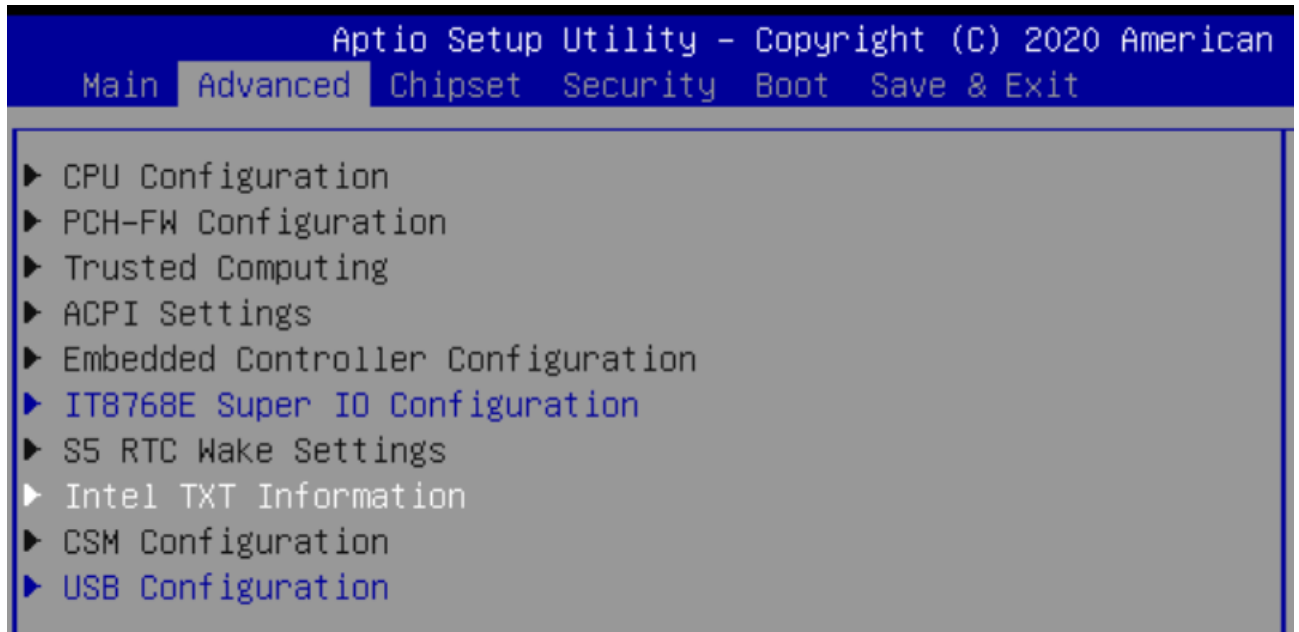
When you are entering USER mode, you will see the Access Level on Main page shows “User”. Also, most functions are not allowed when entering in USER mode (press enter when password prompt). USER mode can only access following functions:

- A. RTC Timer
- B. COM port settings
- C. USB configurations
- D. Boot options.



USER mode can only access following functions, other functions will be grayed out and unavailable.

- A. RTC Timer
- B. COM port settings
- C. USB configurations
- D. Boot options.

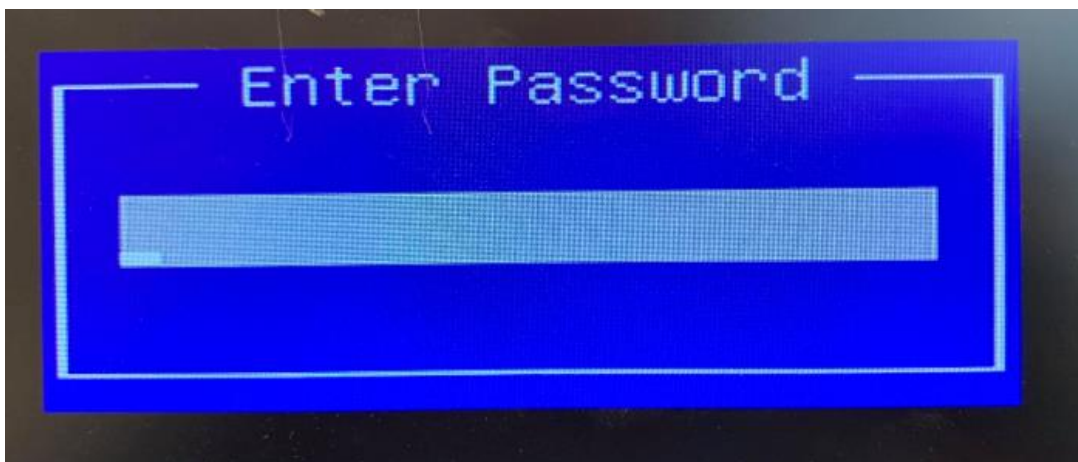


**Setting password for USER account:**

If only the user's password is set, the user will be prompted to enter the password when booting, and the password must be entered to boot or enter the BIOS setup.



The user will be prompted for a password when booting, and the system will continue to boot only after entering the correct password



**Note: if ONLY the USER password is set, and there is no Administrator password, USER will have Administrator authority in the BIOS.**

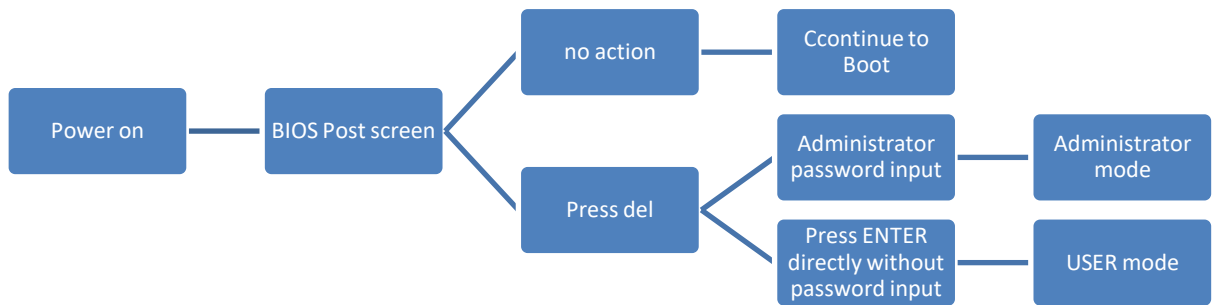
**Setting password for both Administrator & User account:**

The user will be prompted for a password when booting, because the user password has been set. User can use both Administrator and User password to pass password checking when booting. And the BIOS access level will depend on what password user entered.

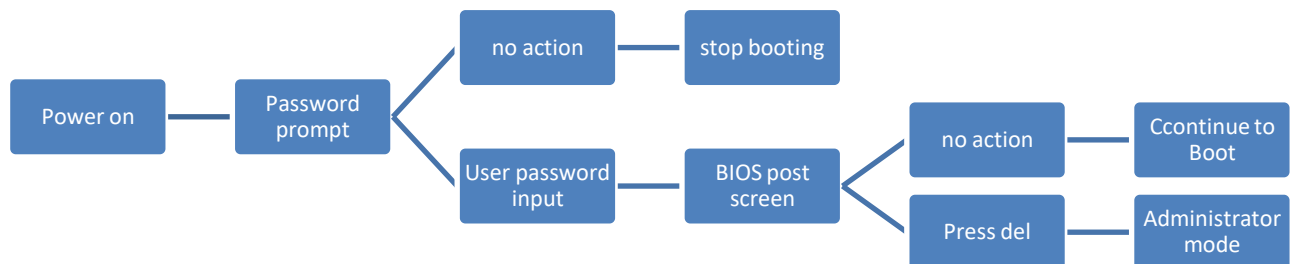
We summarize the behavior of Administrator and User account as below:

Set password for BIOS account	Require password to boot	Require password to access BIOS	BIOS setting change limitation	Press "Enter" without a password input when password prompt
None	NO	NO	NO	N/A
Administrator only	NO	Require Administrator password	NO	Enter BIOS with USER mode only COM / USB / RTC timer/ Boot options are available
User only	Require entering USER password	NO (enter with Administrator mode)	NO (Administrator mode)	Unable to enter BIOS and OS
Administrator + User	Require entering Administrator or USER password	Depends on which password entered Administrator password >> Administrator mode User password >> User mode	Depends on which password entered Administrator password >> Administrator mode User password >> User mode	Unable to enter BIOS and OS

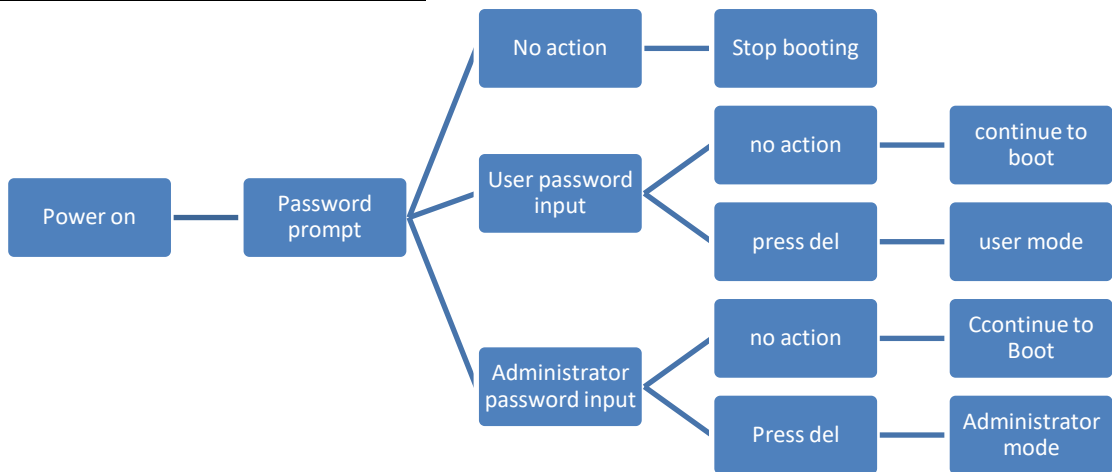
**Administrator password only**



**User password only**



**Both Administrator & User password**



**Summary:**

- **Only Administrator password is set:** Only affects entering the BIOS stage, need to enter password to enter BIOS.
- **Only User password is set:** You need to enter the password when the system is powered on. Setting user password does not affect BIOS access
- **Administrator password and user password are set at the same time:** You need to enter the password as soon as the system is powered on. The password can be Administrator or User. The password entered will affect the access to the BIOS.