

ANNEX A

Quick Startup Guide DELL Edge Gateway 5000

Index

1. Device setup provided for ISC Alleantia.....	3
2. Main connections.....	4
- Power supply.....	4
- Keyboard, mouse and monitor connection.....	5
- LAN connection.....	5
- Serial port connections	5
3. Initial BIOS Setup.....	6
3.1. Automatic Startup	6
3.2. Windows Services to be disabled	7
3.2.1 Windows Firewall	7
3.2.2 Windows Defender	9
3.2.3. Windows Update	11
4. Applications to install.....	15
4.1. Antivirus.....	15
4.2. TeamViewer.....	15

1. Device setup provided for ISC Alleantia

The gateway is configured with the following settings in order to support the Alleantia IoT Scada ISC.

Description

BASE,GTWY,EDGE,5000,CTO
TPM Enabled
Intel Atom Processor E3827 (1M Cache, 1.75 GHz)
Placemat for Dell Edge Gateway 5000 ENG, ARA, FRE, GER, ITL
Shipping Docs - English, French, German, Italian, Dutch
System Shipment
MOD,SHP MTL,SYSM,IOT,COMMER
MOD,ASSY,BASE,E3827,4G,5500
MOD,SSDR,32,60D3,LTON,J8,STL
No Accessories
MOD,LBL,REG,SYSM,ST.LOUIS,WW
Quick Resource Locator System Label
Wireless LAN 802.11n Radio Label for Embedded Box PC Series
MOD,LBL,SYSM,HOST,WWAN,WLAN
MOD,LBL,SYSM,MDM,STL,IOT,WWAN
Wireless 802.11n LAN Card-Win10,Ubuntu
3G 5580 Mobile Broadband Card for Edge Gateway 5000 Series
MOD,BRKT,DIN,BK,MET,GTWY,STL
Win10 Enterprise 2015 LTSB

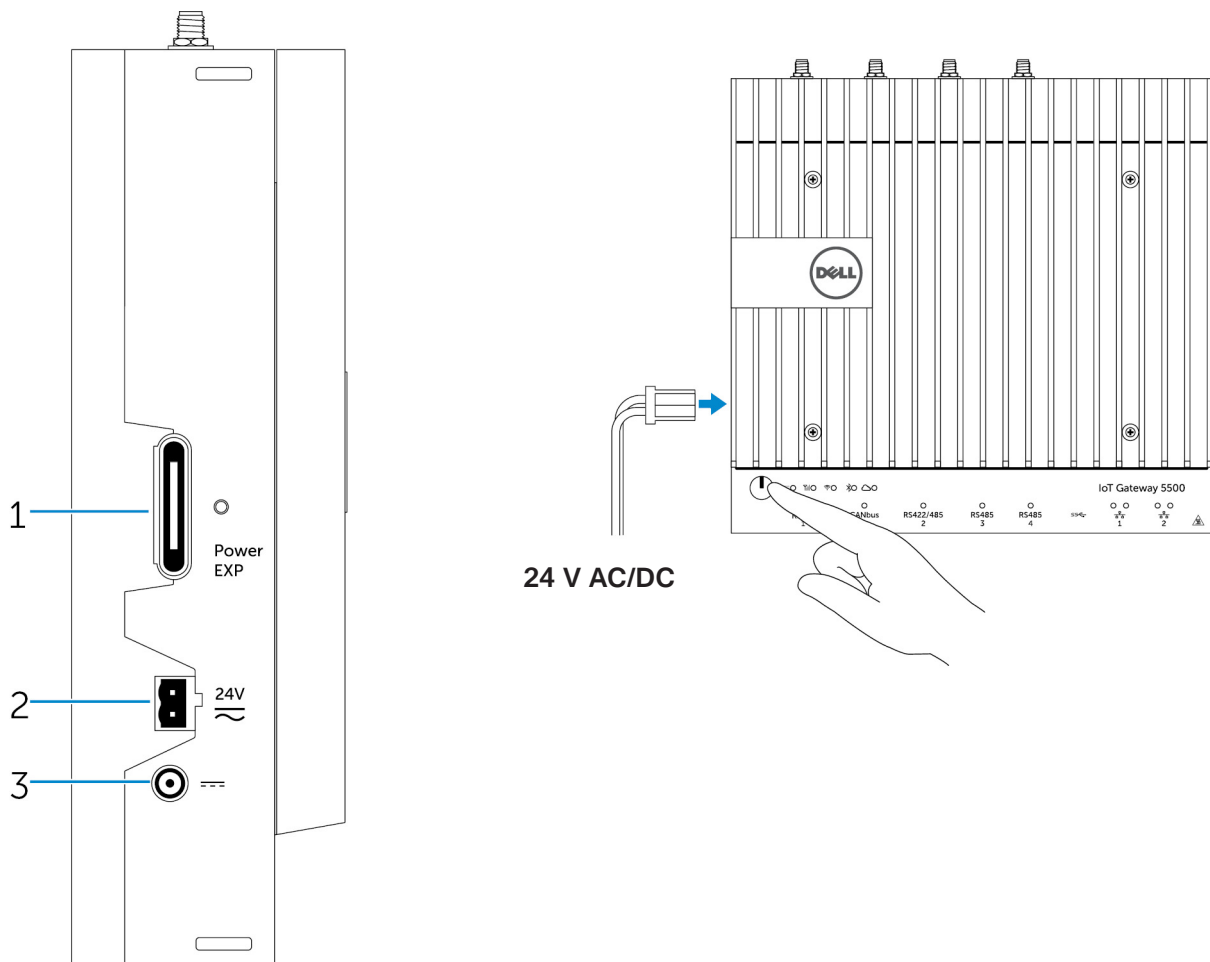
2. Main connections

- Power supply

DELL EDGE GATEWAY 5000 can be powered with 24V AC/DC (range 18v – 26,4v) of 4 Amp voltage via the connector on the left side of the chassis (connector n°2 in the figure below).

Through the connector n°3, power the PC with the original DELL 65W power supply, sold separately (DELL notebook AC adapter 65w, 7,4mm socket).

System-Left

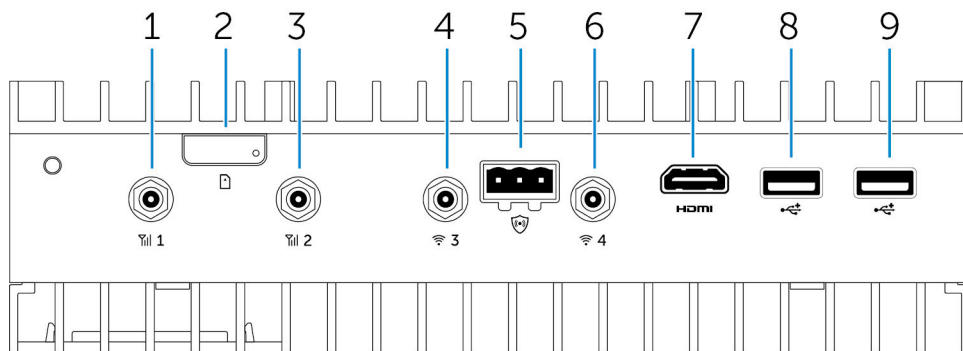


2. Main connections

- Keyboard, mouse and monitor connection

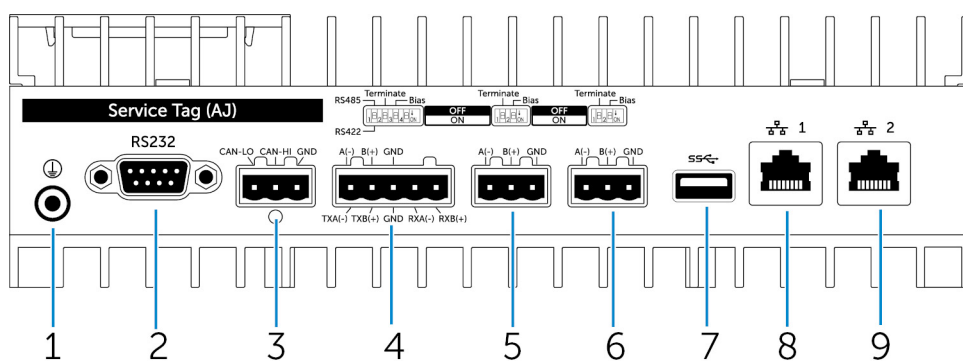
To connect the monitor, connect its HDMI cable to the port n°7 on the back side of the gateway (see the figure).

Connect keyboard and mouse to USB ports on the back side of the gateway (connectors n° 8 and 9, see figure below).



- LAN connection

Connect the PC to PLC, CNC and Ethernet via LAN RJ45 connector on the front side of the chassis (ports 8 and 9).



- Serial port connections

The device comes with 4 serial ports to connect devices as PLC, inverters, energy meters, 1 RS232 (connector n°2), 1 RS422/485 (connector n°4), 2 RS485 (connector n°5 n°6), respectively (see the figure).

Annex: User manual and certificate of conformity.

Download at http://www.alleantia.com/wp-content/uploads/2017/06/AnnexA-DELL_Gateway.zip

3. Initial BIOS Setup

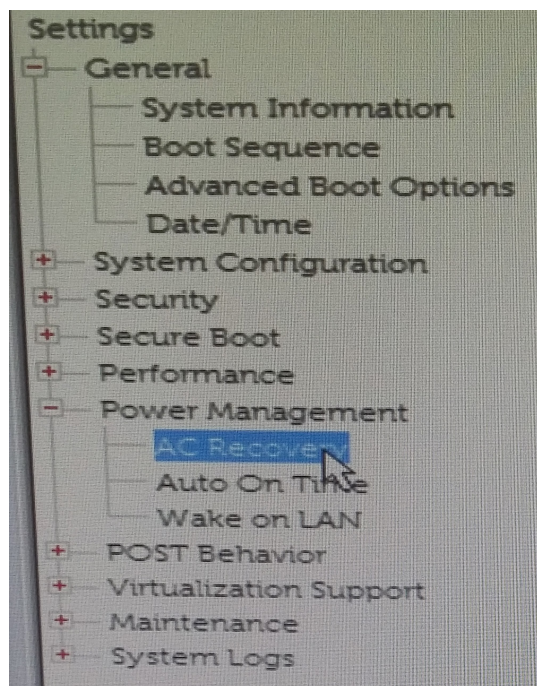
WARNING - THE GATEWAY MUST BE USED FOR THE APPLICATION ISC OF ALLEANTIA ONLY. WE SUGGEST TO USE A FIREWALL TO FILTER WEB CONNECTIVITY (FOLLOW THE INDICATIONS OF ISC MANUAL TCP AND UDP PORTS TO BE OPENED).

3.1. Automatic Startup

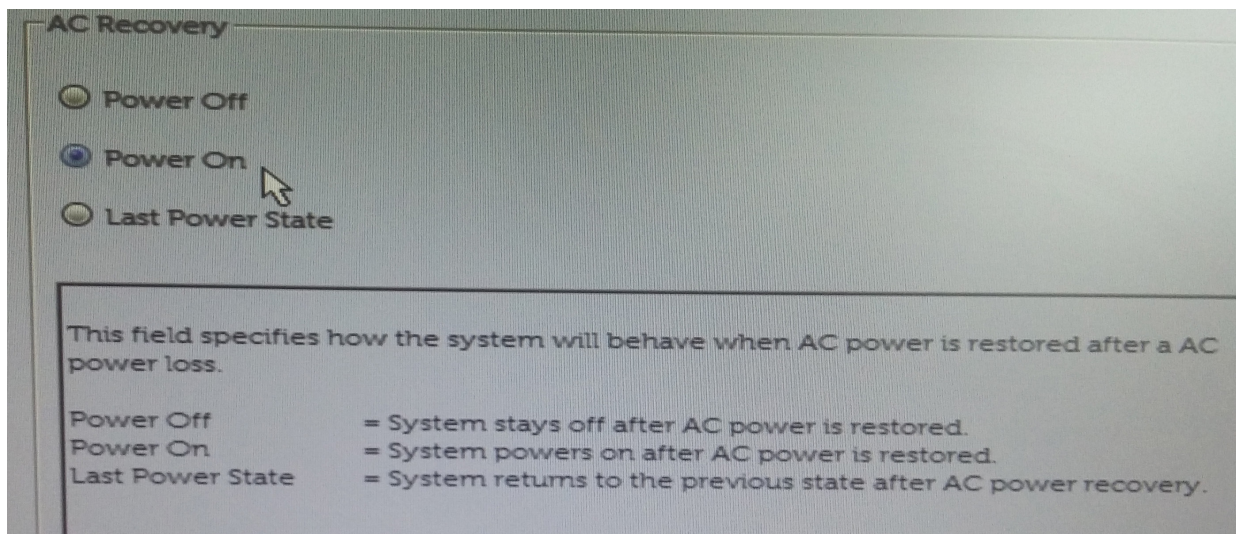
Once the gateway is power on, press **F2** key for enter in the BIOS; then open the **"Power Management"** section and go in **"AC Recovery"** tab for select **"Power on"** option. Thus click on **"Apply"**, tick **"Save as custom user settings"**, click on **"OK"** and at the end, click on **"Exit"** for quit the BIOS.

Sequence Procedure:

1.

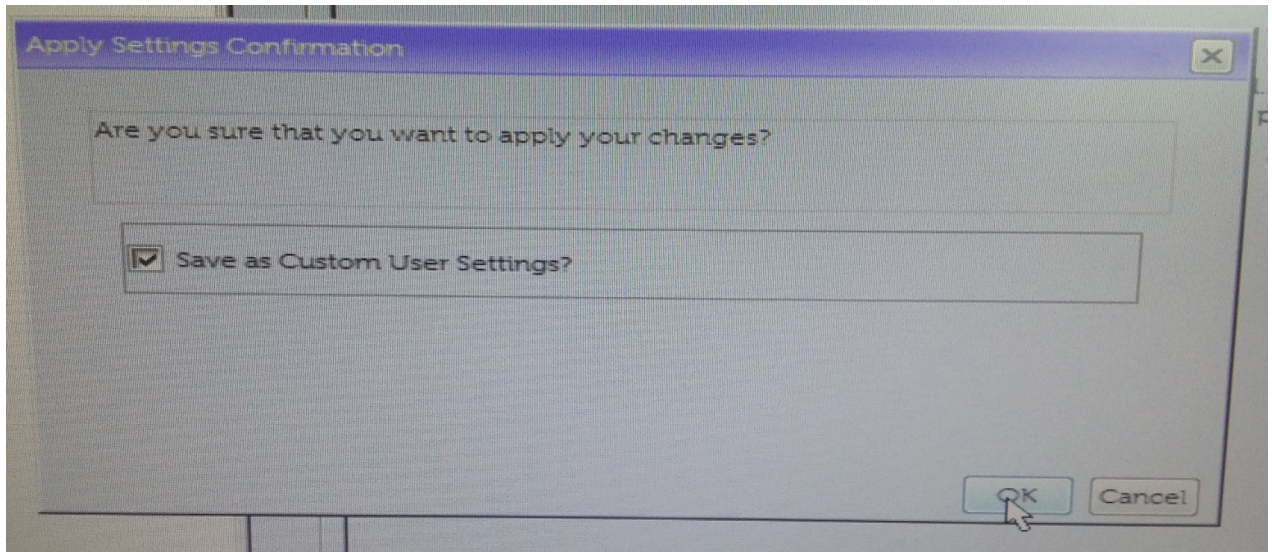


2.



3. Initial BIOS Setup

3.



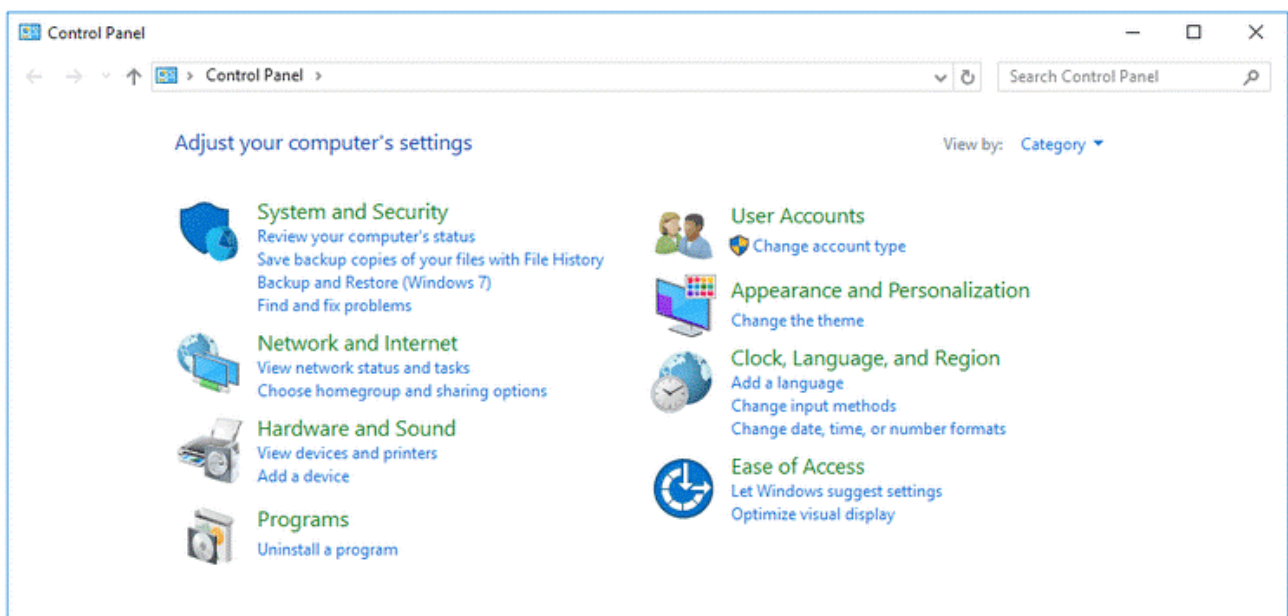
3.2. Windows Services to be disabled

3.2.1 Windows Firewall

Disable Windows Firewall from control panel:

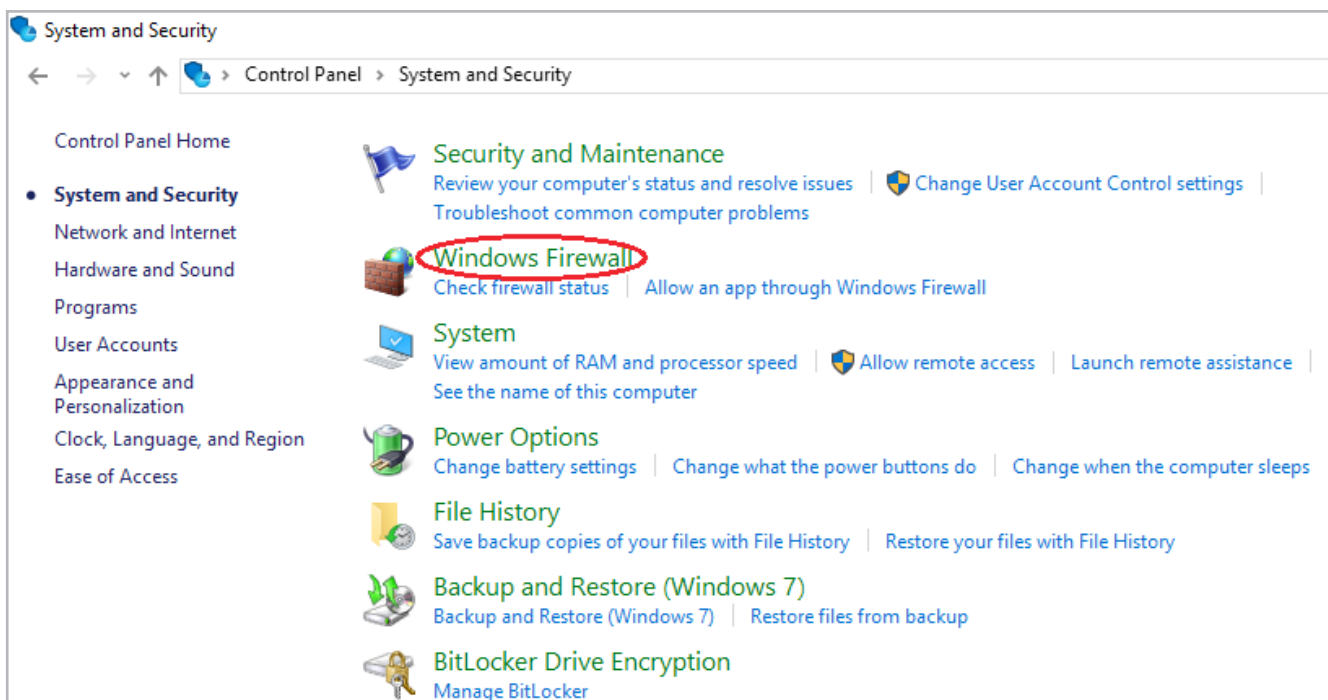
Procedures:

1. Press **"Start"** button, type **"control panel"** and open it.
2. Once is open, click on **"System And Security"**.

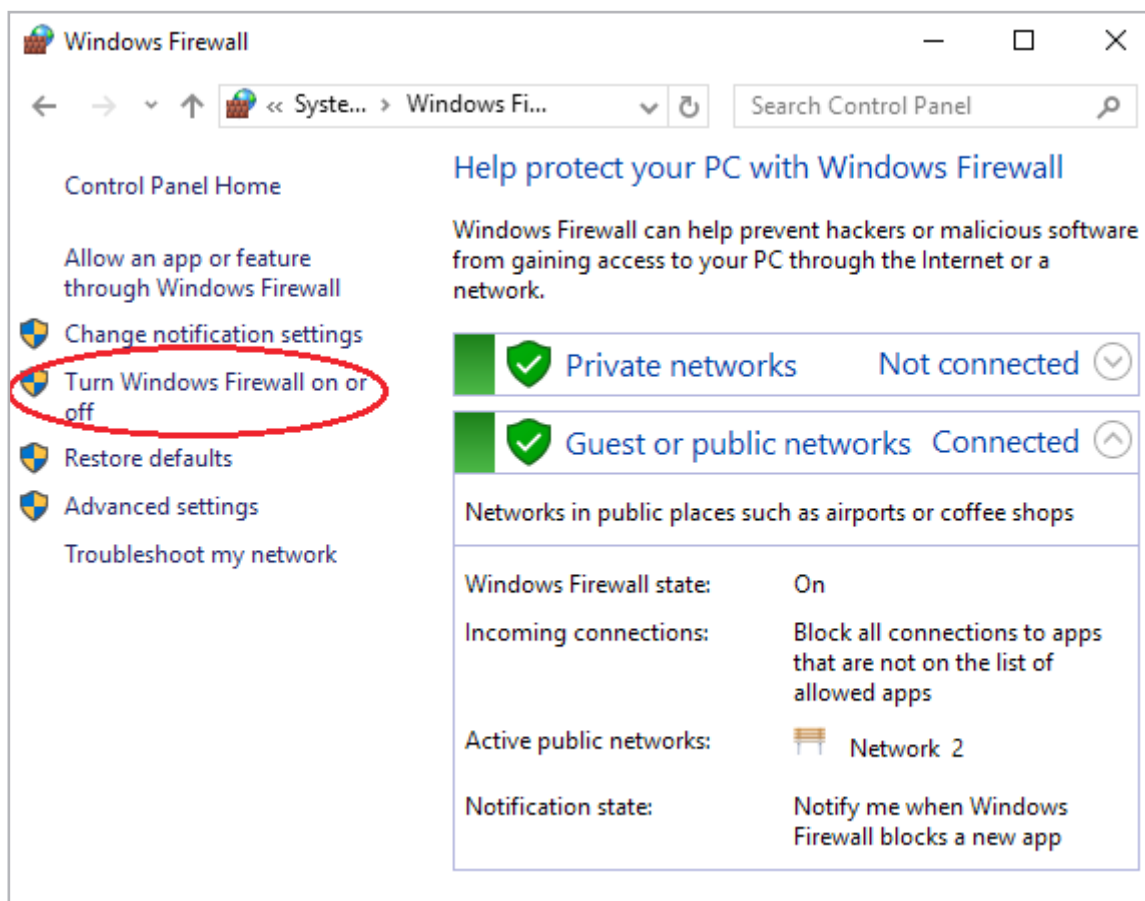


3. Initial BIOS Setup

3. Click “Windows Firewall”.

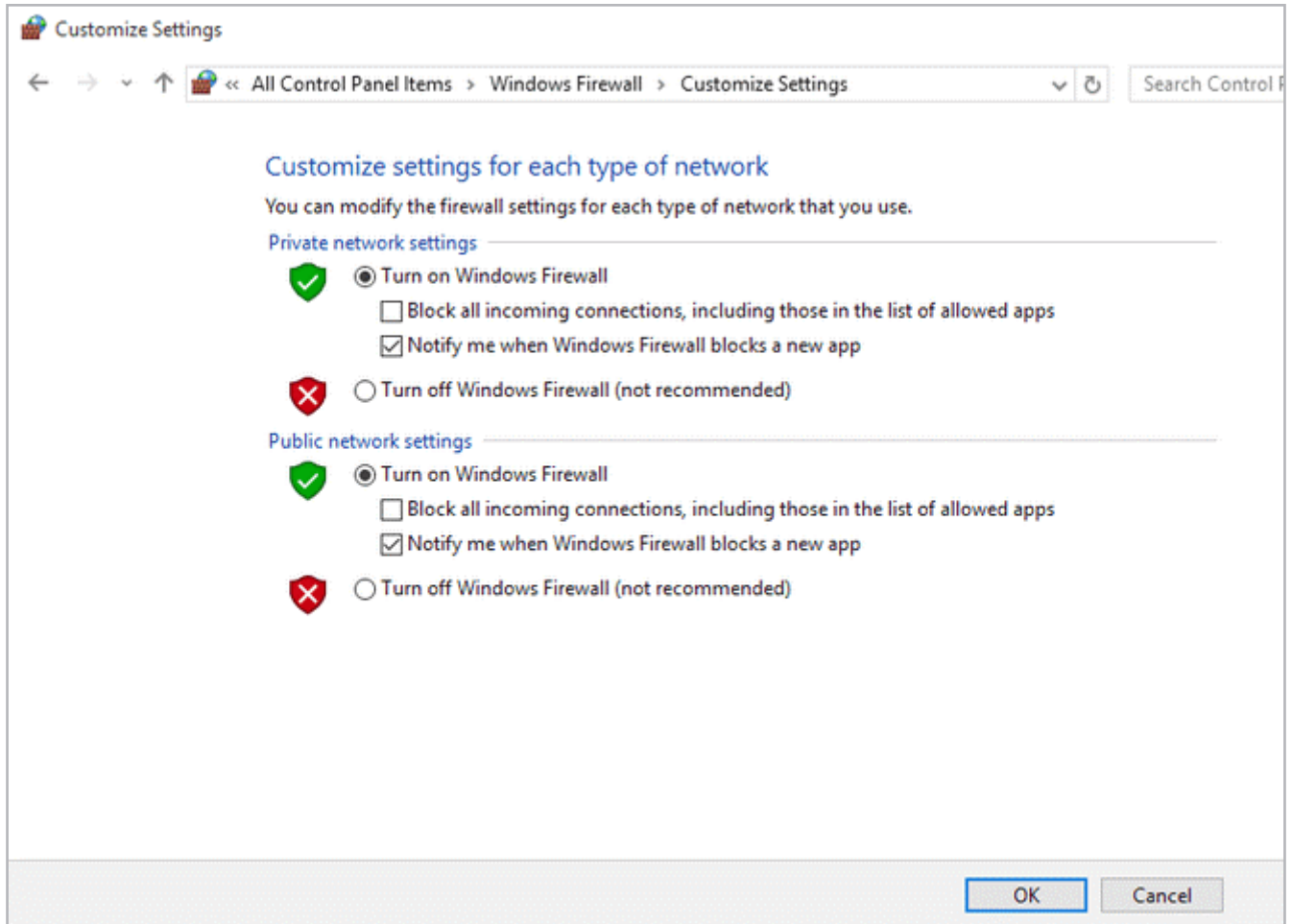


4. Select “Turn Windows Firewall on or off” on the left side.



3. Initial BIOS Setup

5. Tick all the “Turn off” options and at the end click on **OK** to confirm the settings.



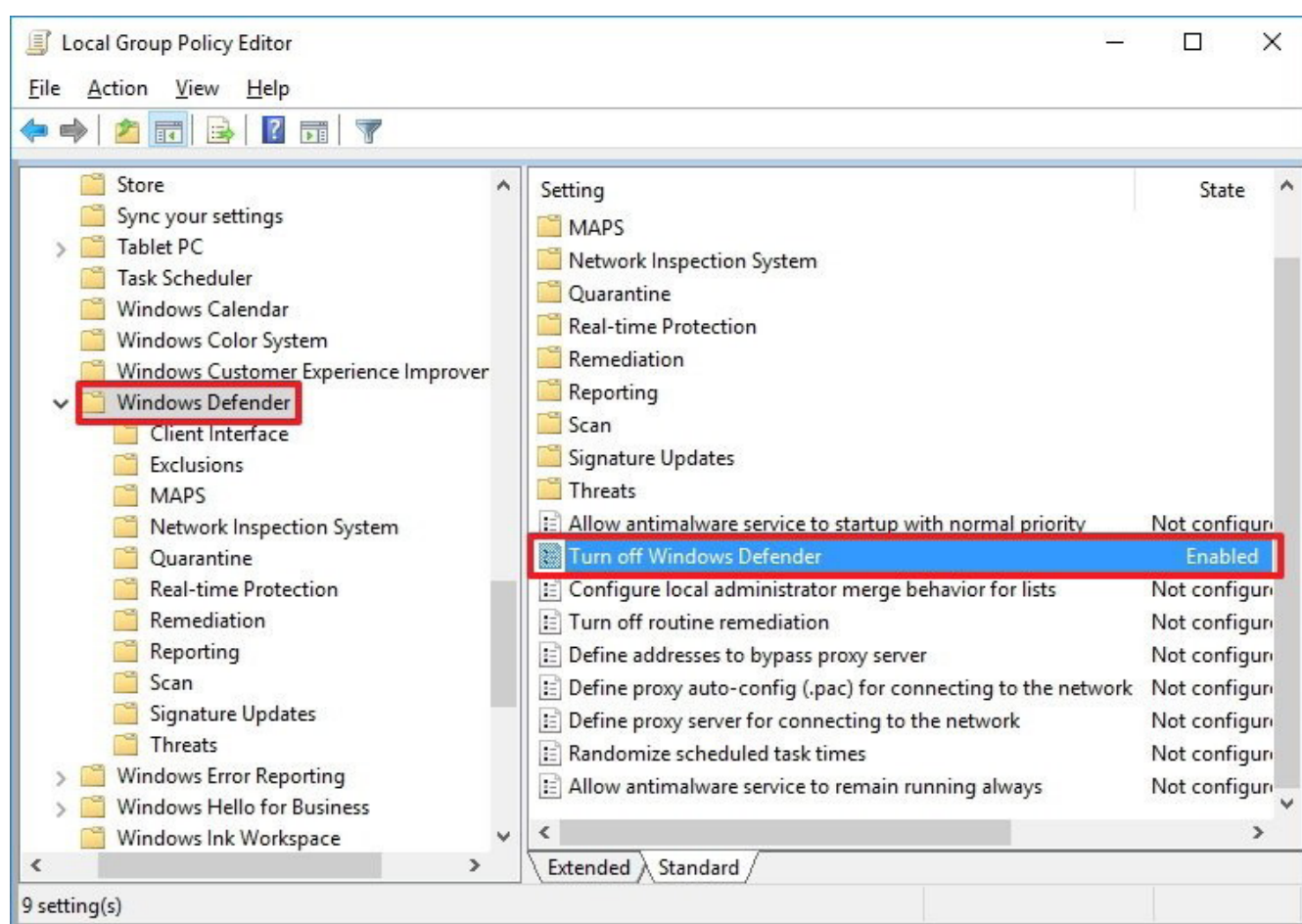
3.2.2 Windows Defender

Disable Windows Defender by using Local Group Policy Editor utility.

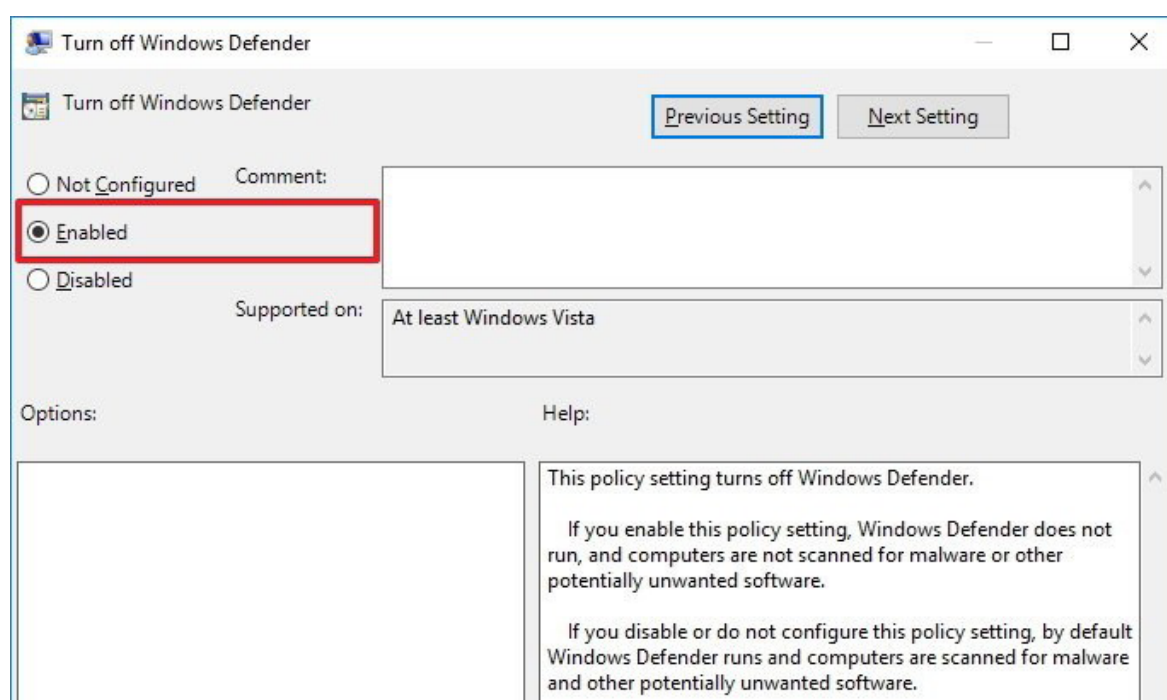
Procedures:

1. Use “Windows logo key + R key” shortcut from keyboard to open “Run” utility
2. Type **gpedit.msc** and click on “OK” to open “Local Group Policy Editor”
3. Browse the following path: **Computer Configuration > Administrative Templates > Windows Components > Windows Defender**
4. Double click on “Turn Off Windows Defender” on the left side as shown in figure.

3. Initial BIOS Setup



5. Click on “ENABLED” to disable “Windows Defender”, then click on “Apply” > “OK” as shown in the next figure.

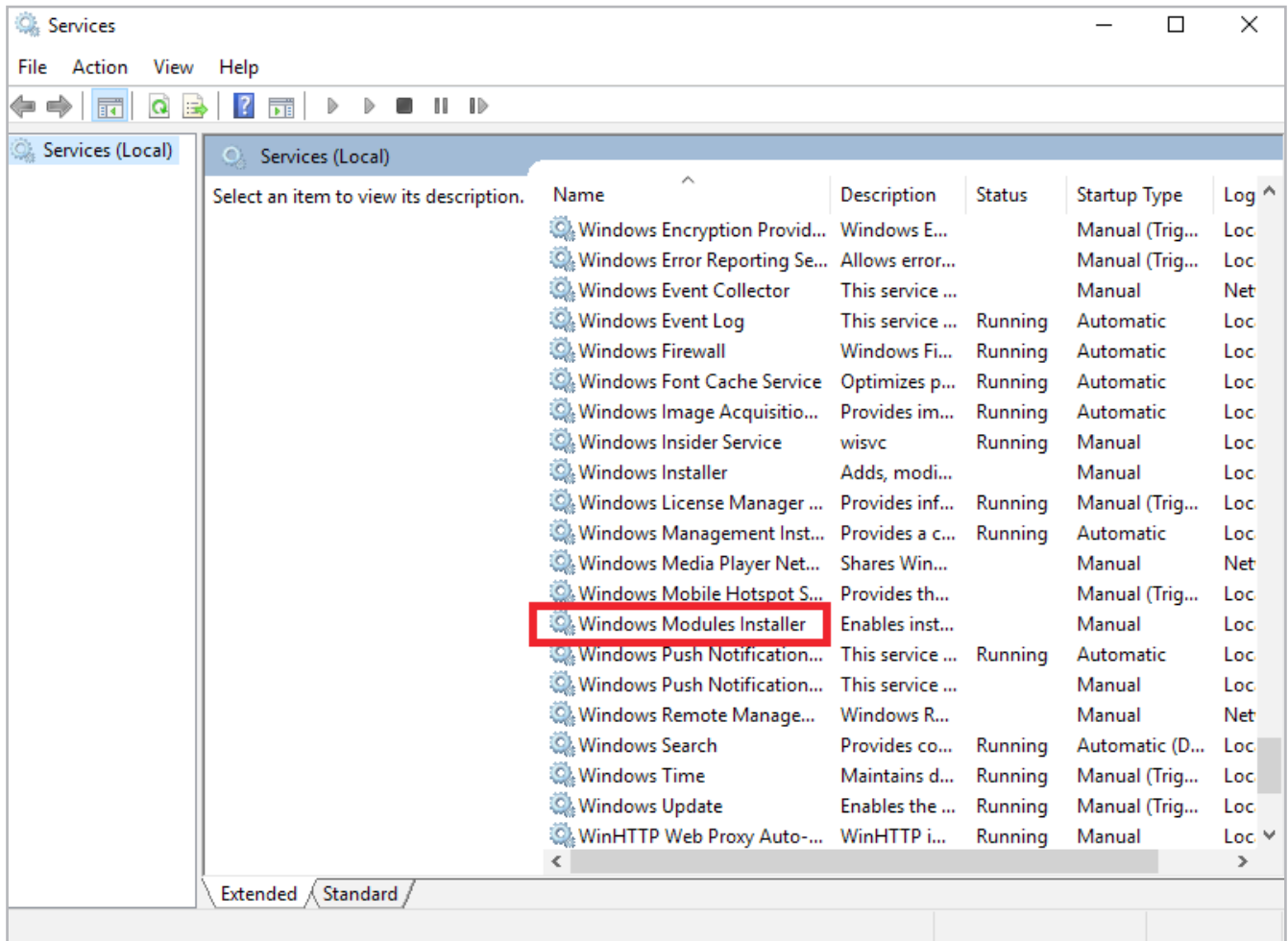


3. Initial BIOS Setup

3.2.3. Windows Update

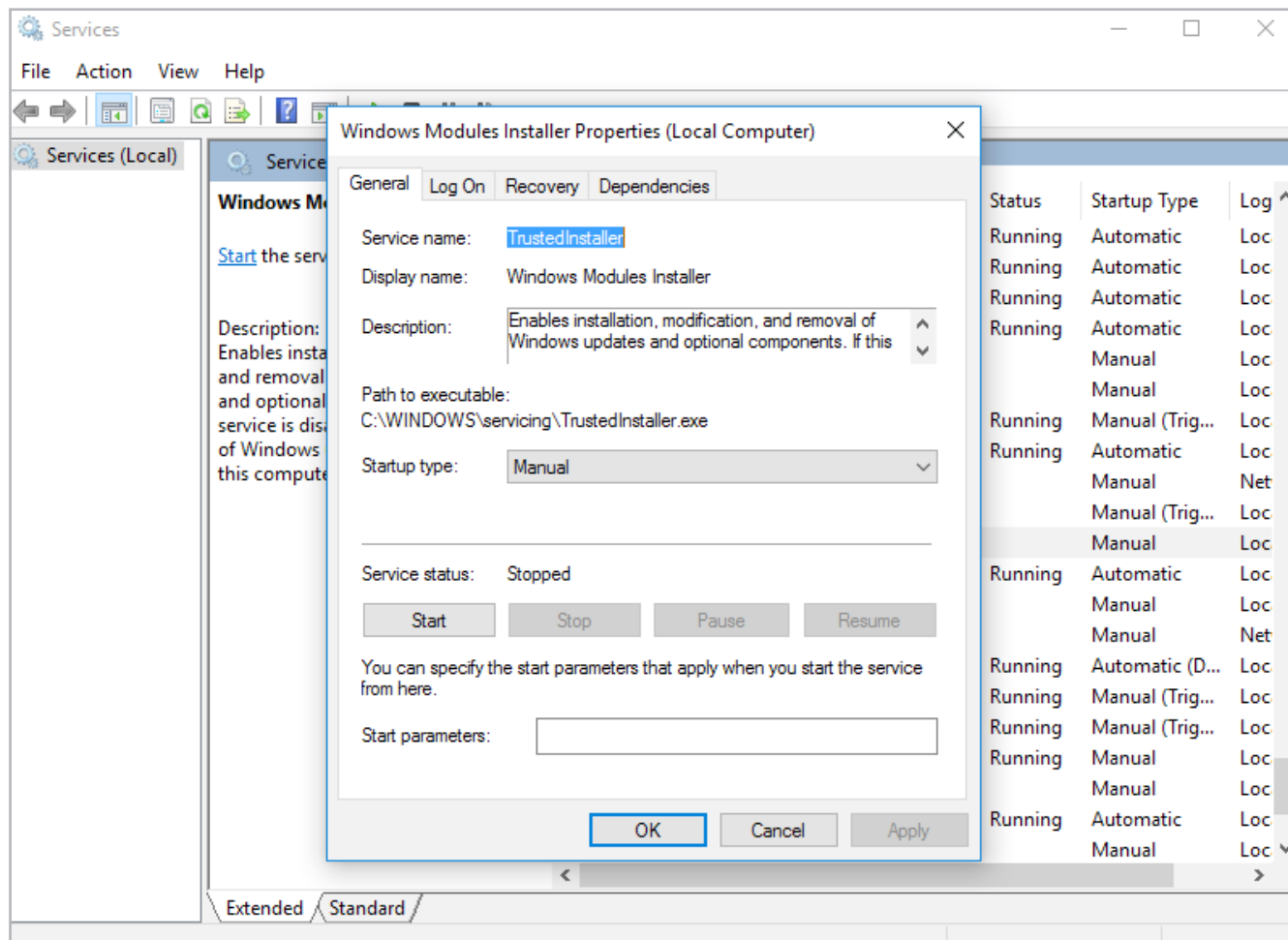
Disable Windows Update from **services.msc** utility

1. Use “**Windows logo key + R key**” shortcut from keyboard to open “**Run**” utility.
2. Type **services.msc** and click on **OK**.
3. Scroll down on services page. Find and double click on **Windows Modules Installer**.



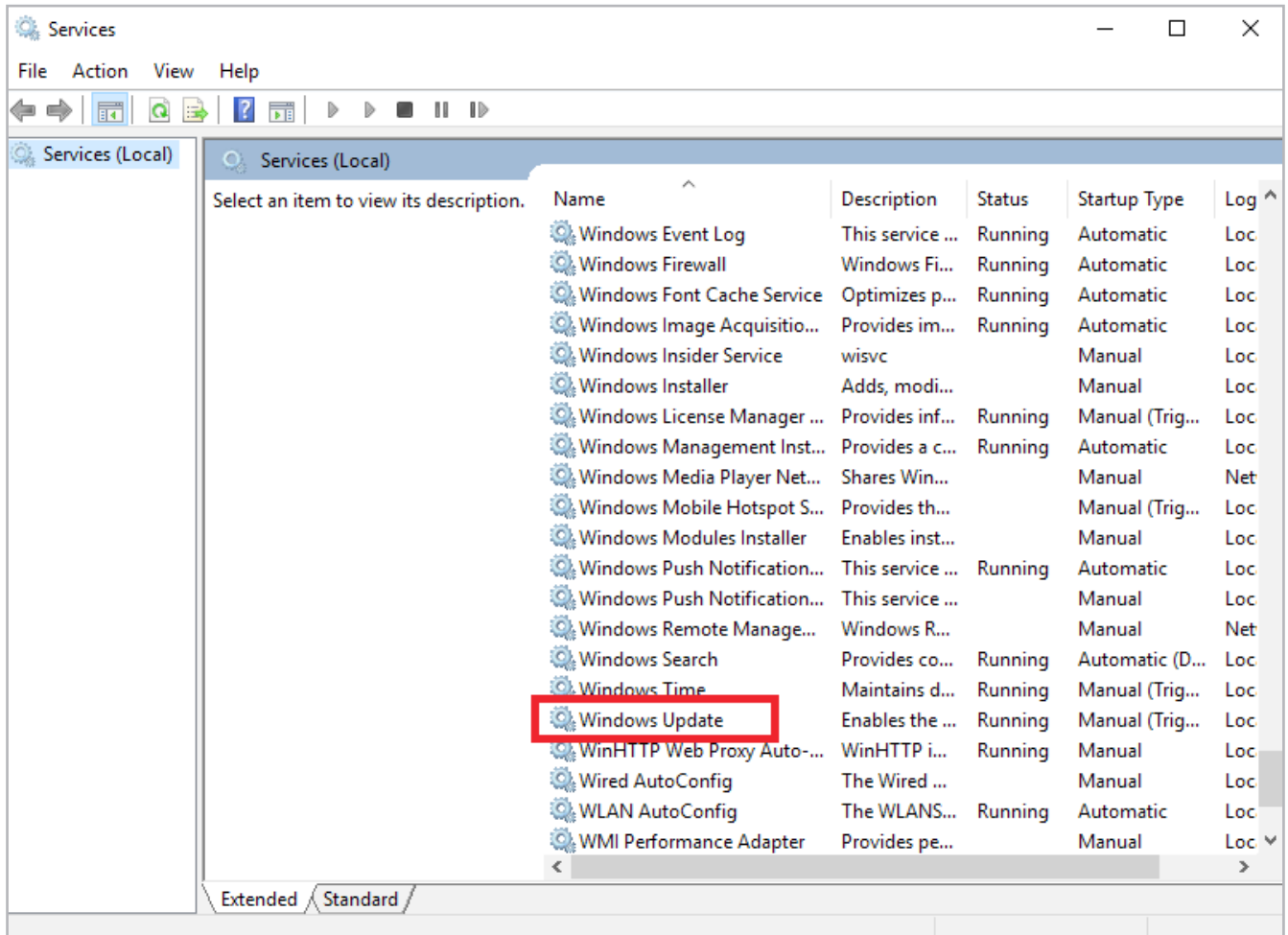
3. Initial BIOS Setup

4. Set its startup type to **Manual**, then click on **Apply** > **OK**.



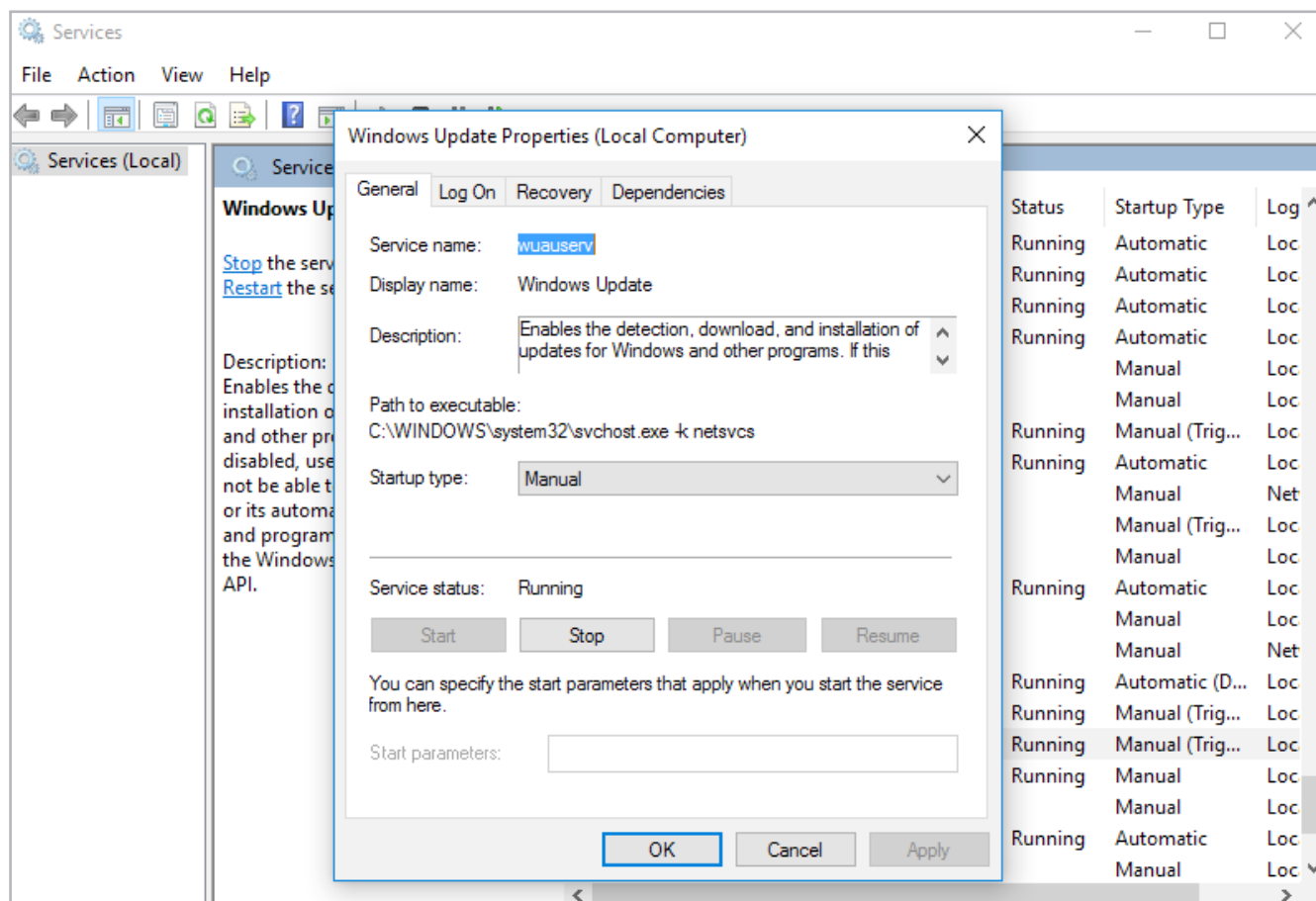
3. Initial BIOS Setup

5. On services setting page, find and double click on **Windows Update**.



3. Initial BIOS Setup

6. Set its startup type to be **Manual**, then click on **Apply > OK**.



WARNING

WE SUGGEST TO ACTIVATE WINDOWS UPDATE MONTHLY TO KEEP THE COMPUTER UPDATED. THEN REPEAT THE INSTRUCTION ABOVE TO DISABLE THE SERVICE.

4. Applications to install

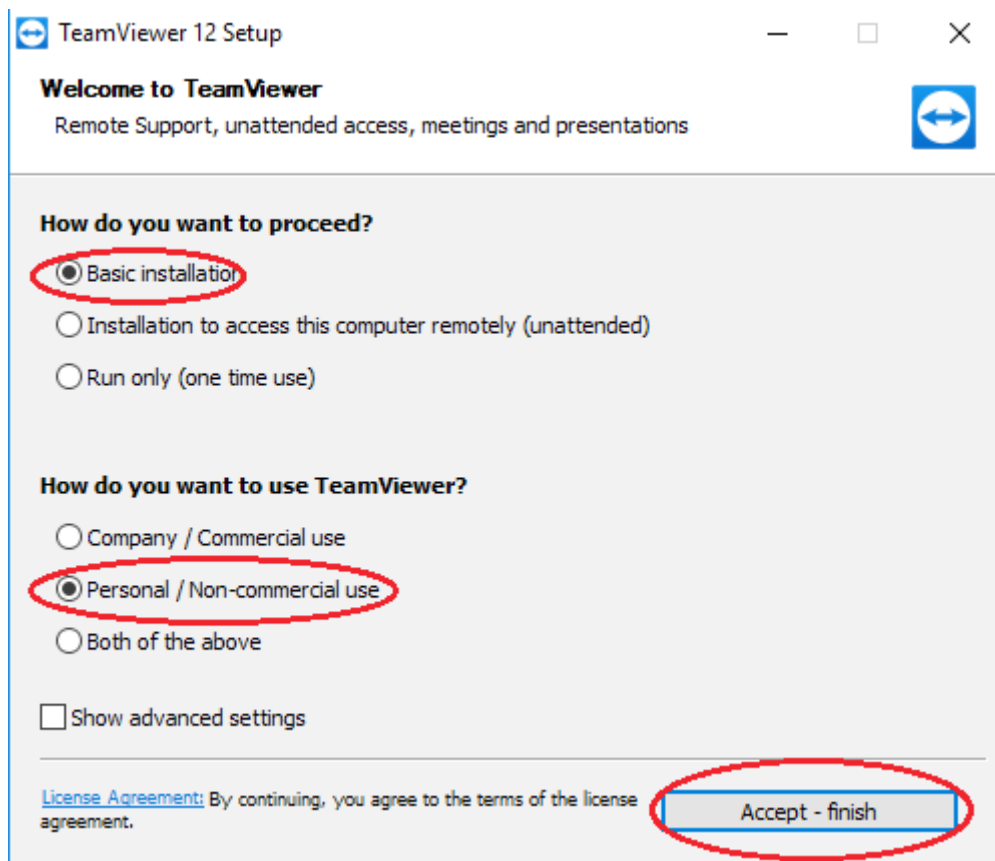
4.1. Antivirus

The system comes with Aavast software (<https://www.avast.com>) installed with a free license (1 year of validity). It will be up to the user to update the license.

The use of other antivirus software is possible but not recommended, as it has been found to be a major machine resource commitment and, in many cases, not compatible with the performance requirements of Industrial IoT solutions, particularly for interfacing CNC- and PLC- controlled machines.

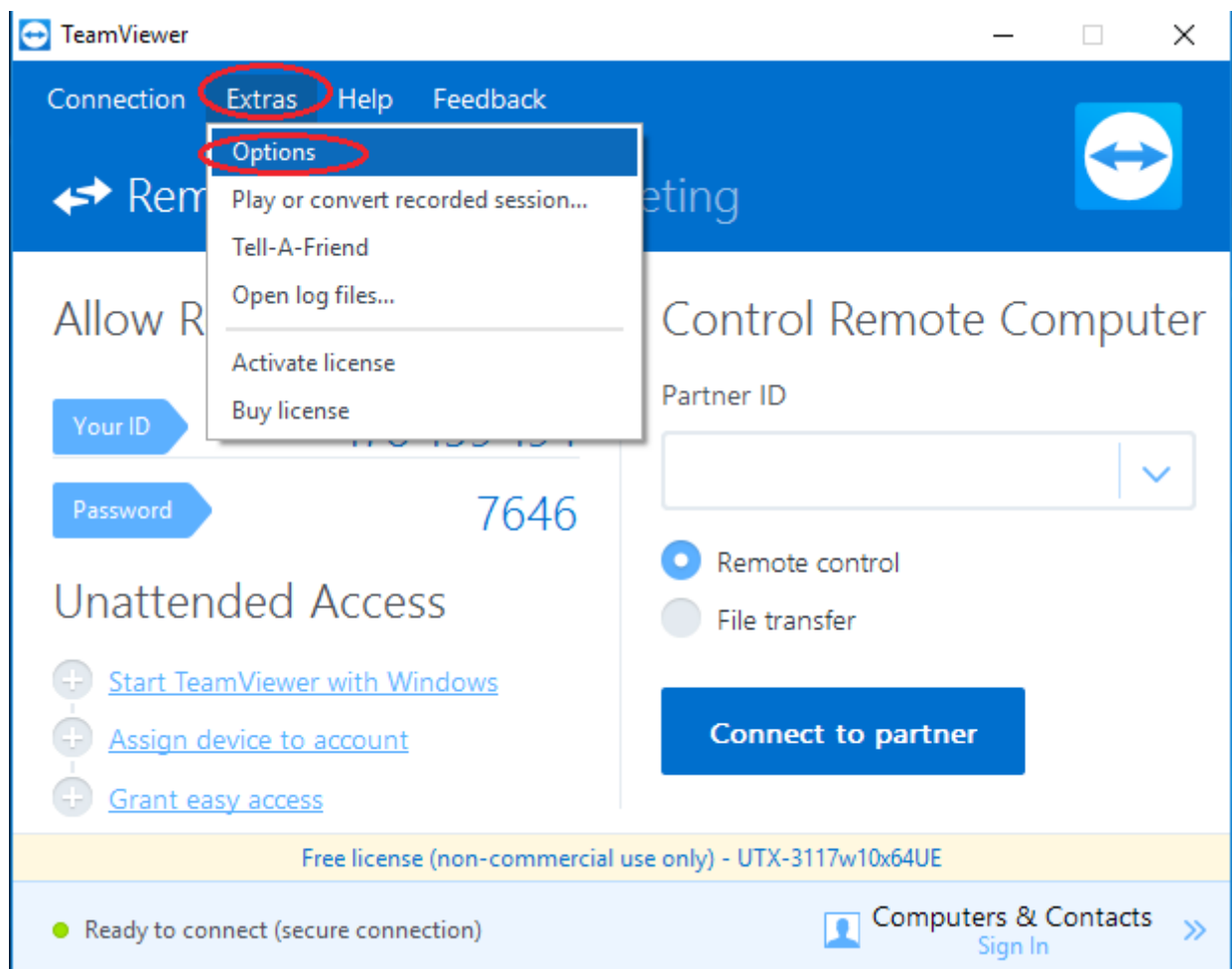
4.2. TeamViewer

1. Once the installation file of TeamViewer is open, tick **Basic Installation** and **Personal/non commercial use** and click on **Accept > Finish**.

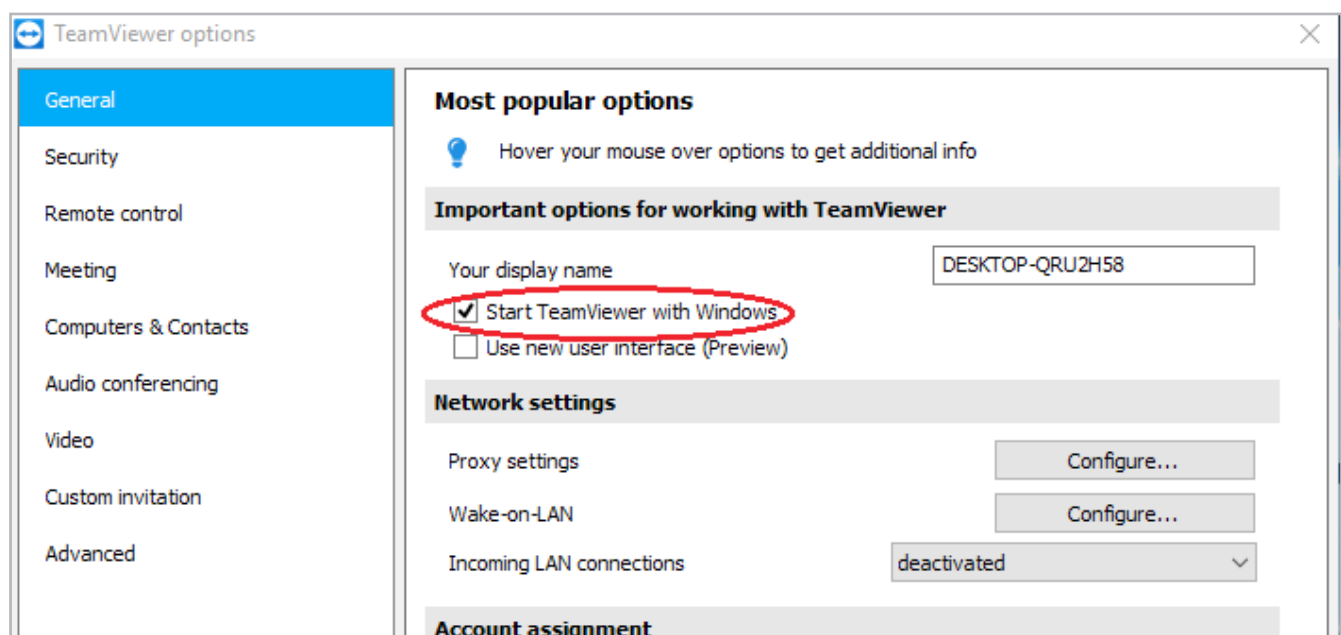


4. Applications to install

2. Click on **Extras**, then click on **Options**.

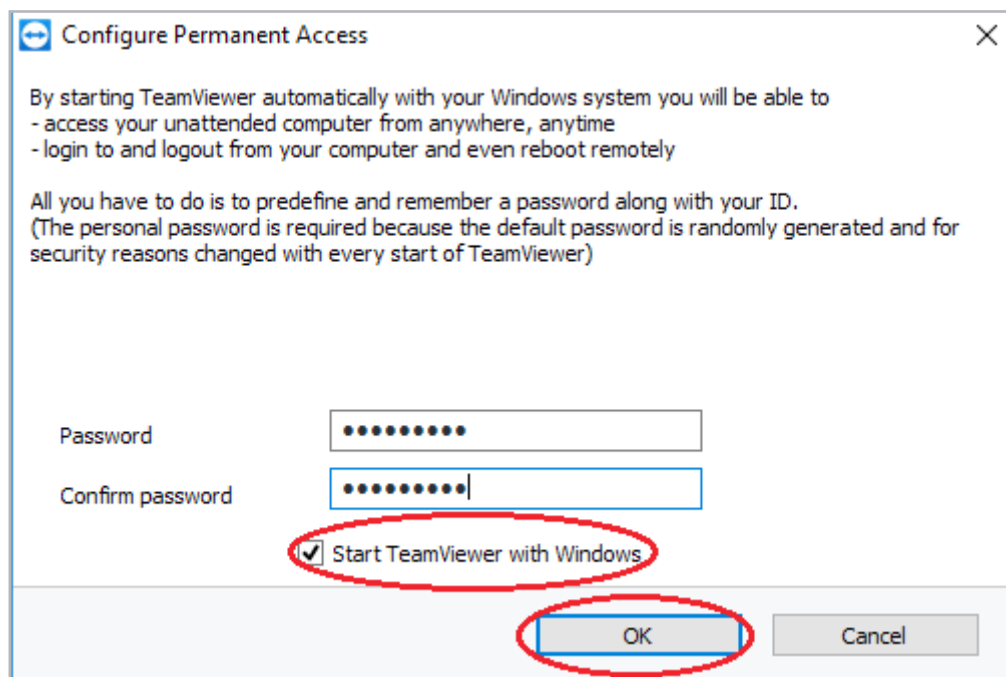


3. Tick **Start TeamViewer With Windows** option.



4. Applications to install

4. Set **alleantia** as password, tick **Start TeamViewer With Windows** and click on **OK**.



5. Click on **Security** tab on the right side. Select **Disabled (no random password)** in **Random password** section. Then set **alleantia** as password on personal password section and click on **OK**.

