

Raspberry Pi 4B Application Development Using the C Programming Language

**DAY 1: Install the Raspberry Pi Cross Compilation Toolset** 

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### Webinar Logistics

- Turn on your system sound to hear the streaming presentation.
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- Submit questions for the lecturer using the Q&A widget. They will follow-up after the lecture portion concludes.







**Fred Eady** 

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### AGENDA

- Raspberry Pi 4B Setup
- Load the Cross Development Toolset
- Install Eclipse IDE for C/C++ Developers
- Using Eclipse

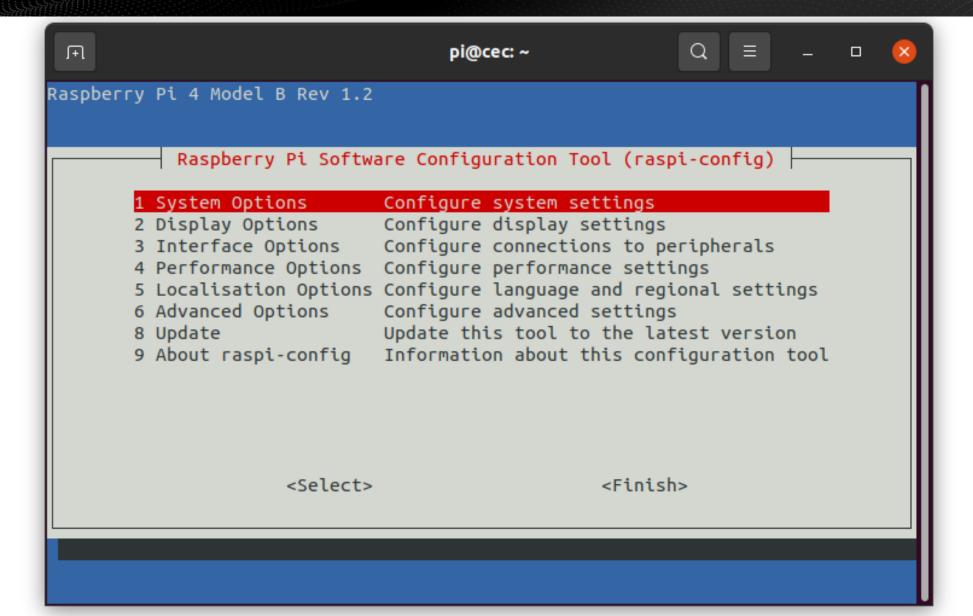






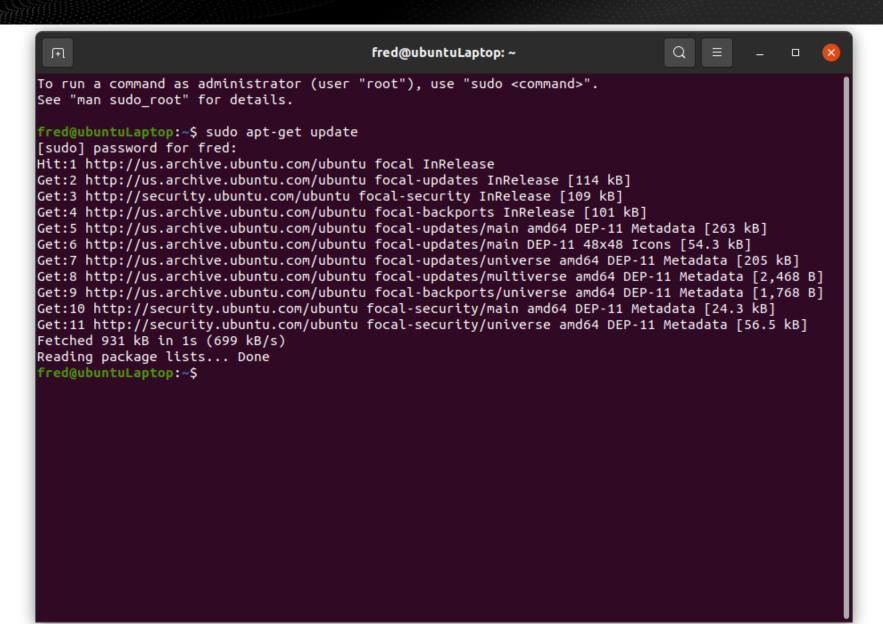


### Raspberry Pi 4B Setup



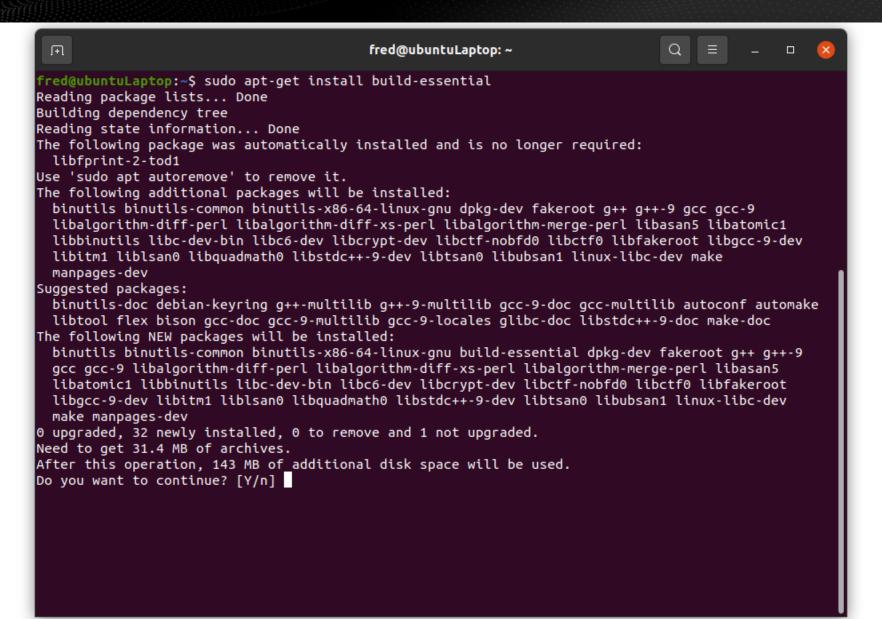






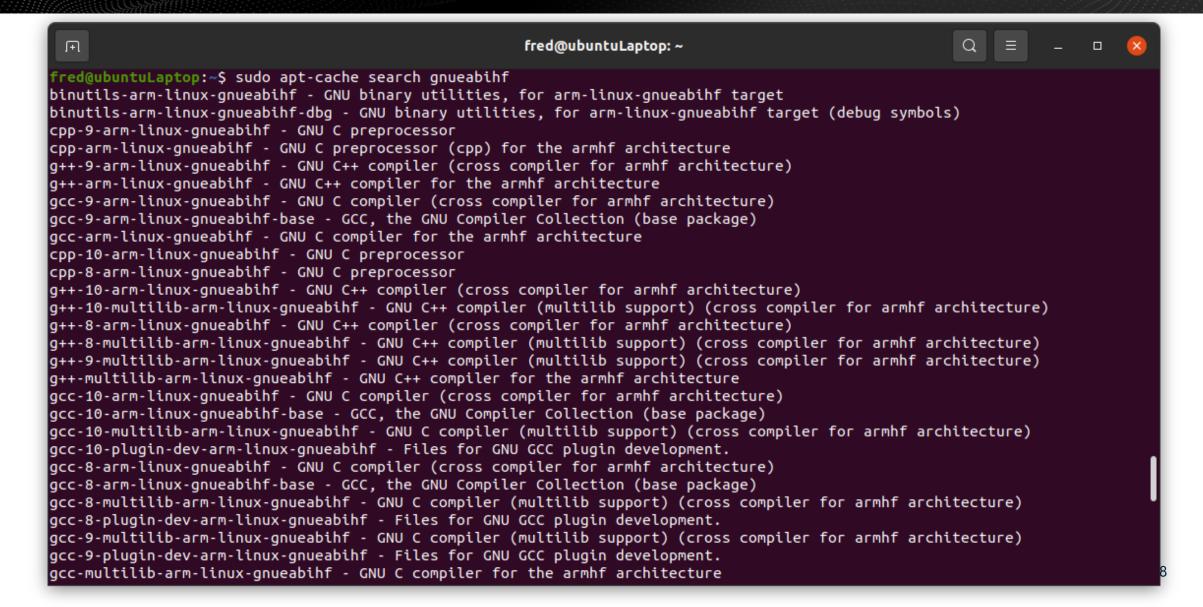






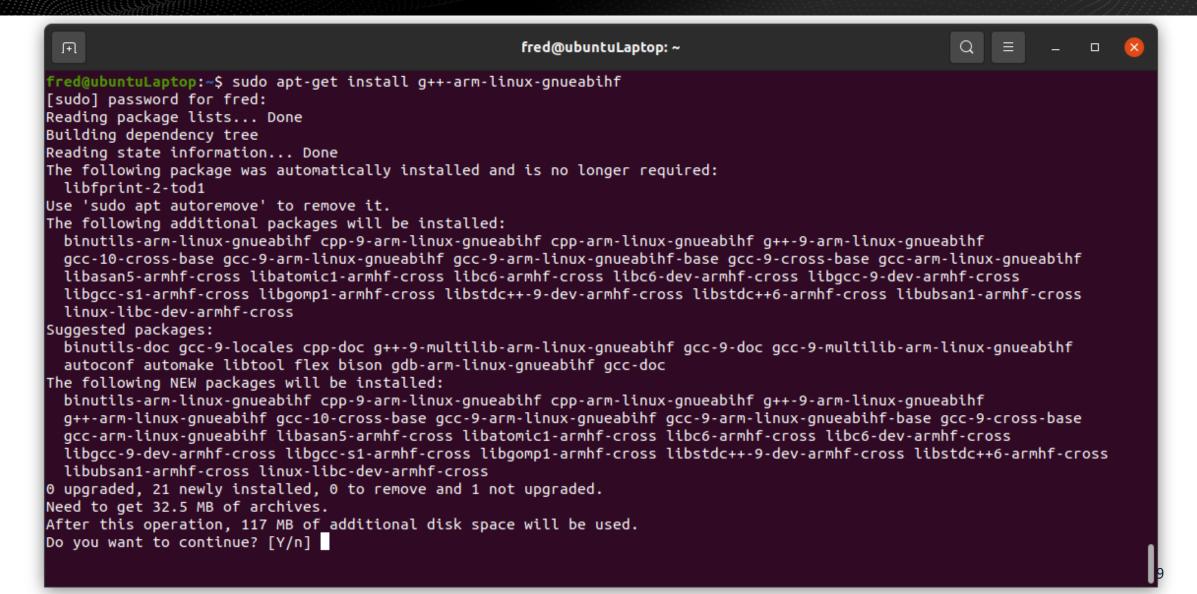










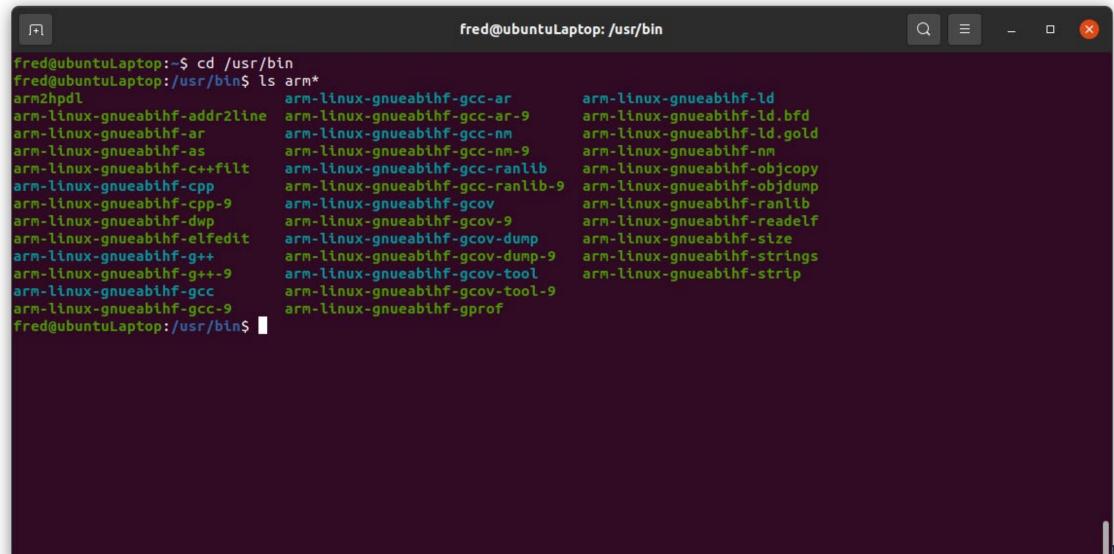




#### **Load the Cross Development Toolset**

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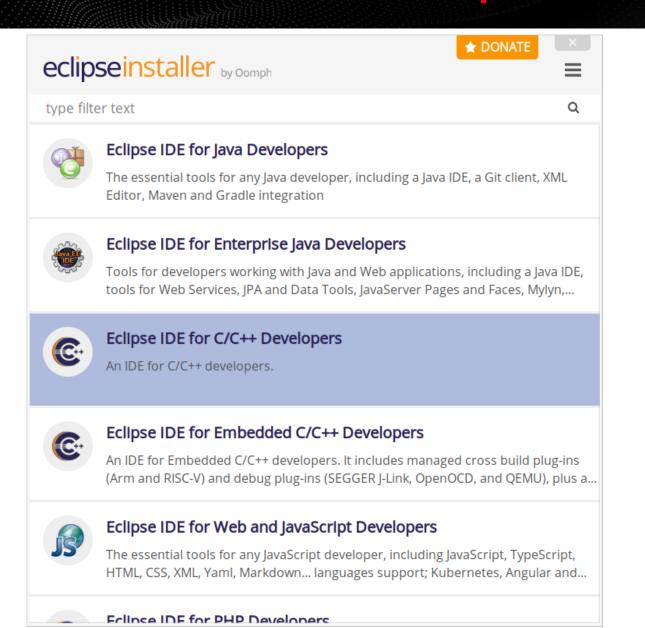


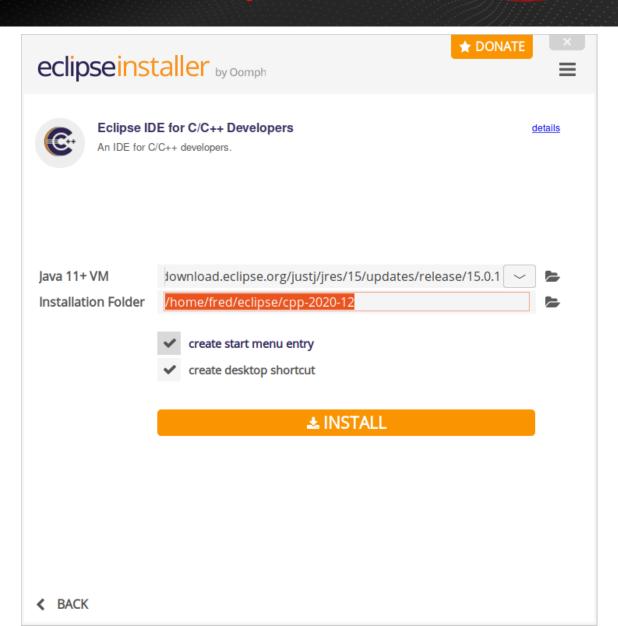


### **Install Eclipse IDE for C/C++ Developers**

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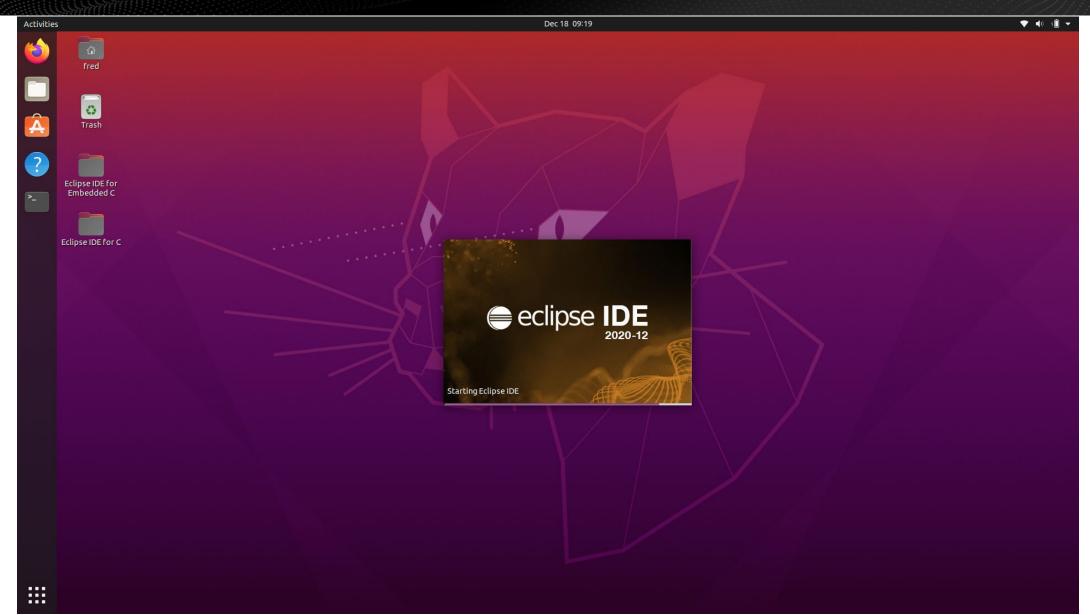








### **Install Eclipse IDE for C/C++ Developers**

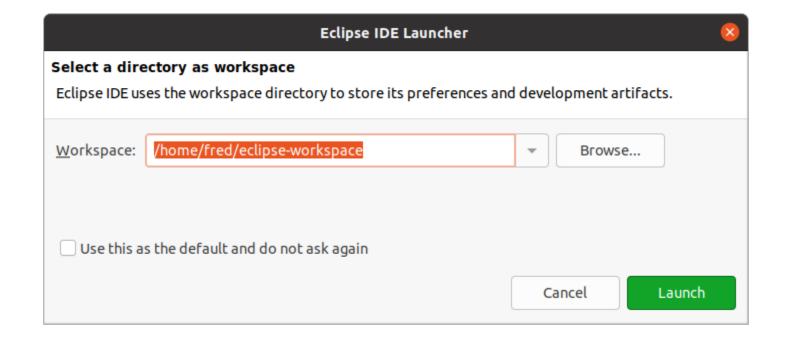








### **Using Eclipse – Launch the Eclipse IDE**

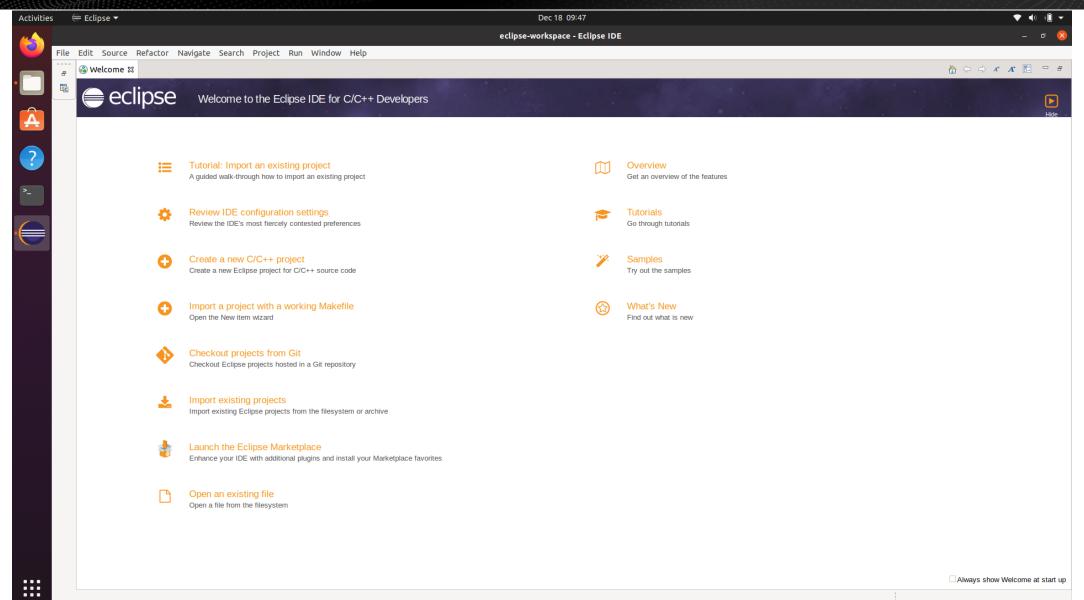




**Using Eclipse – Launch the Eclipse IDE** 

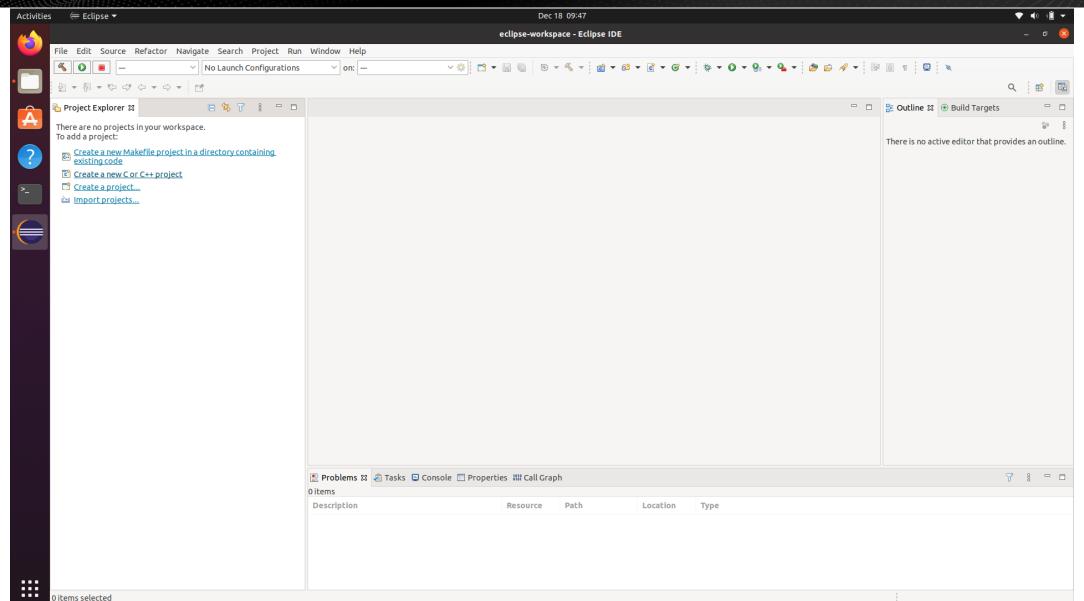






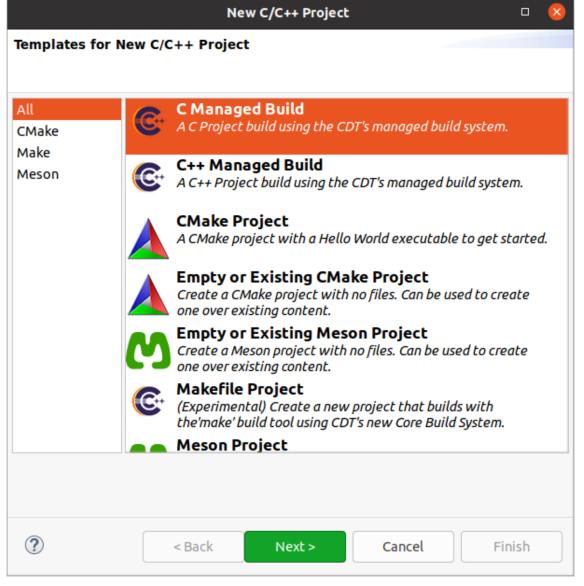


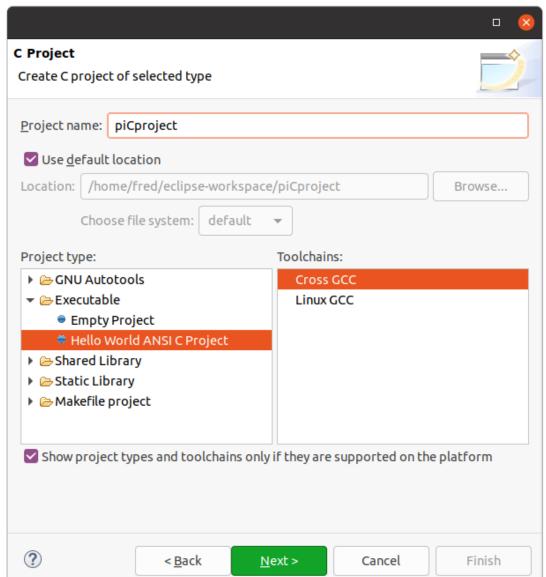






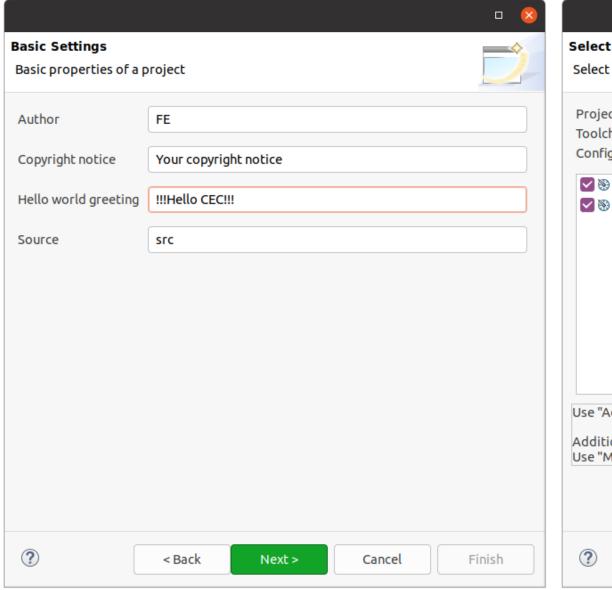








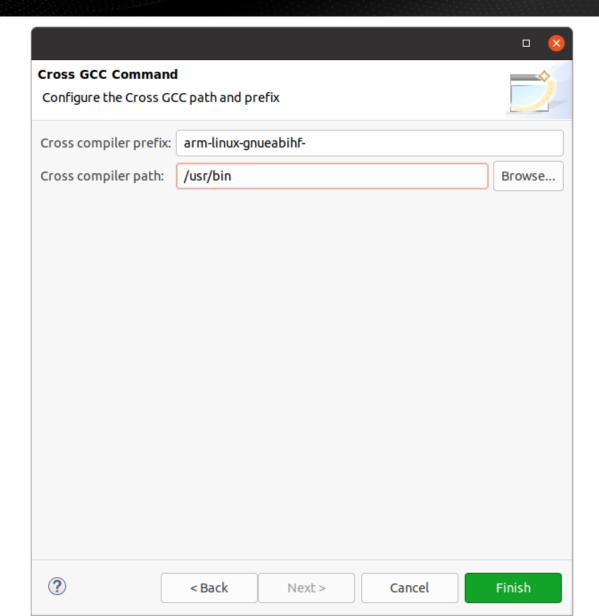




						×
Select Configurati	ons					<b>\$</b>
Select platforms and configurations you wish to deploy on						
Project type: Ex	ecutable					
	oss GCC					
Configurations:						
✓ 🗞 Debug ✓ 🗞 Release					Select all	
				D	eselect all	
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Use "Advanced sett	ings" button to ed	lit project's prop	erties.			
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?	< <u>B</u> ack	<u>N</u> ext >	Cano	el	Finish	

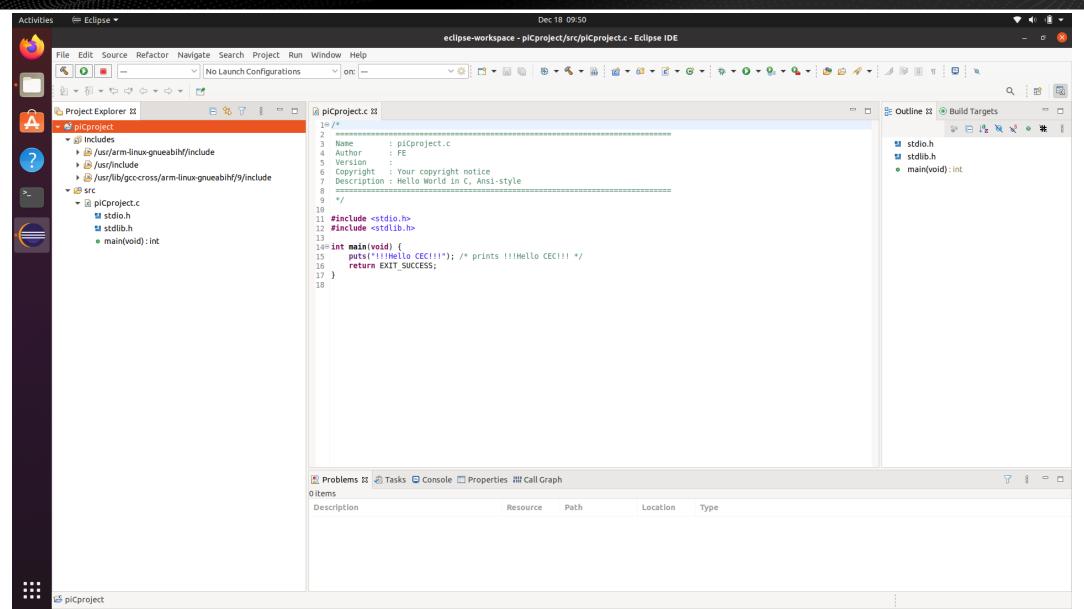










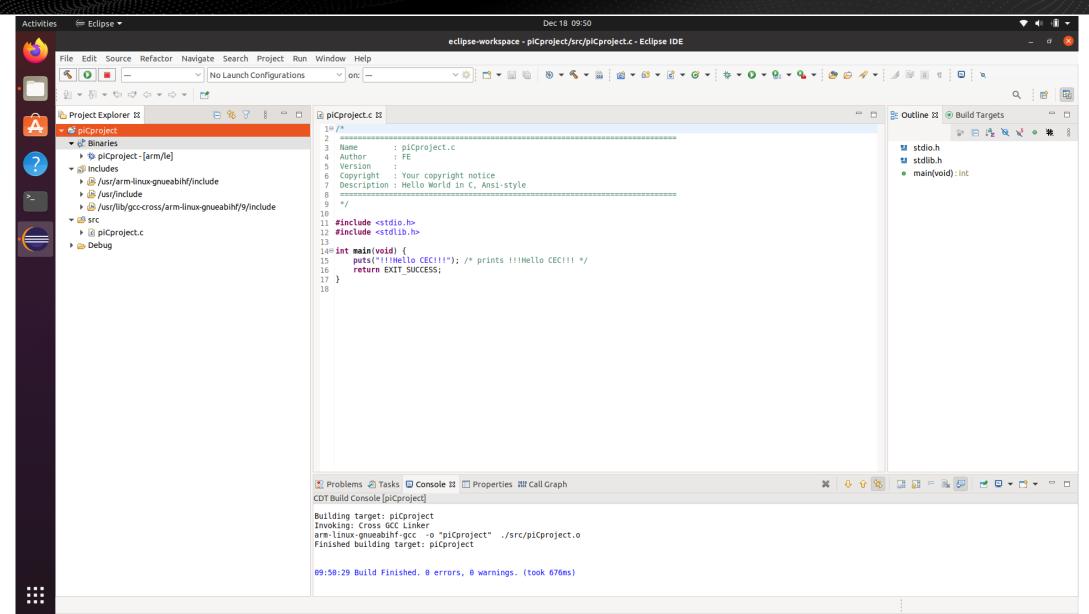




#### **Using Eclipse** – Test Build

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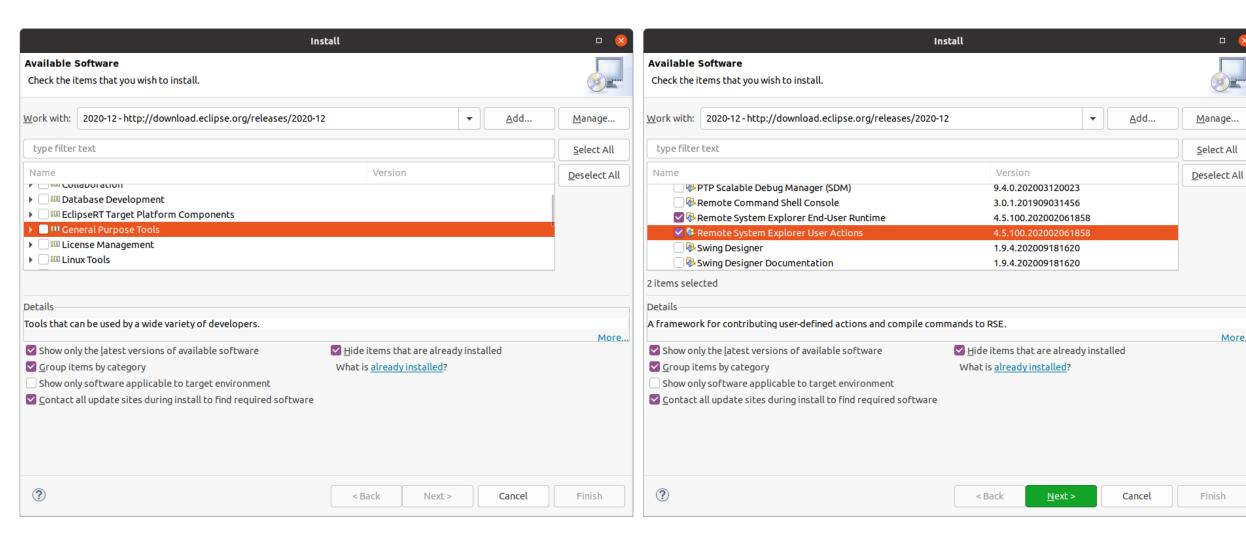








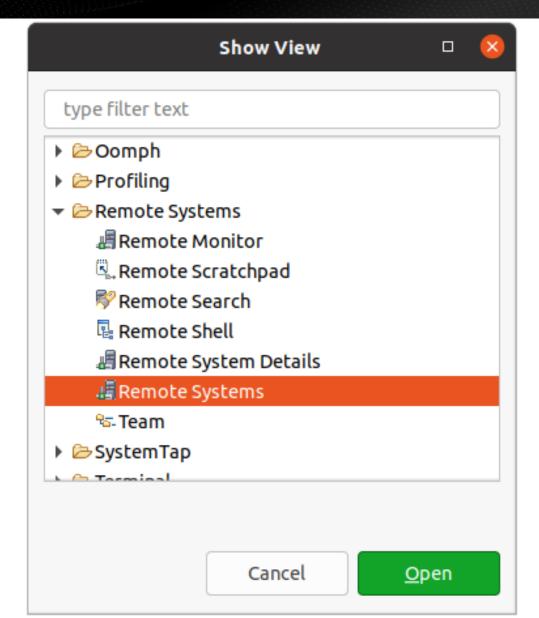
#### **Using Eclipse** – Connect to the Pi



Моге..

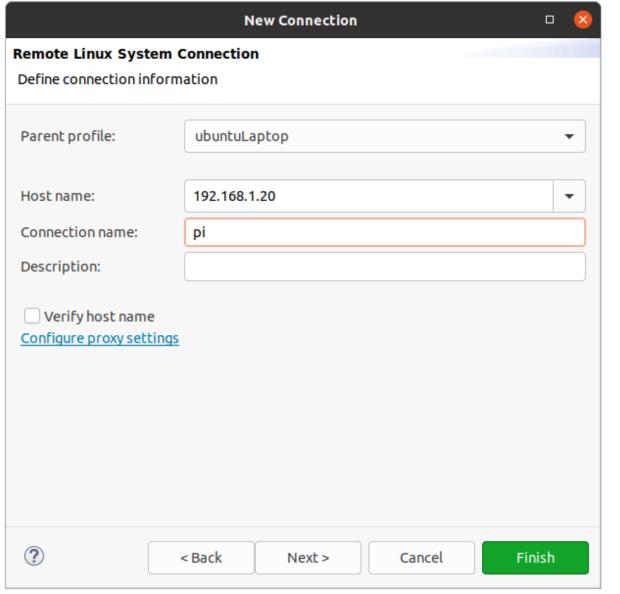












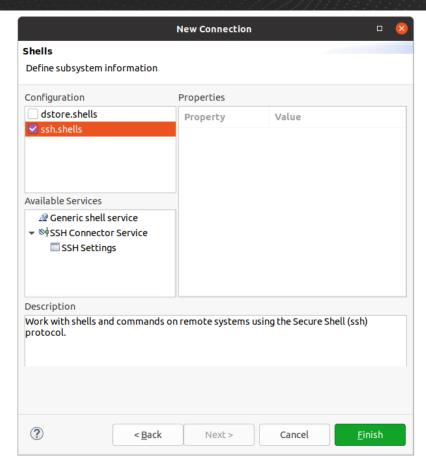
	N	lew Connection		<b>- 8</b>
Select Remote Sy	stem Type			П
Any distribution of	Linux			=0=
System type:				
type filter text				
<b>▼</b>				
<sup>t</sup> ₃ FTP Only				
<b>å</b> Linux ■ Local				
SSH Only				
	(Experimental)			
unix Unix	, ,			
₩ Windows				
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	1	New Connection		<b>- 8</b>
Files				
Define subsystem inf	ormation			
Configuration		Properties		
dstore.files  ftp.files  ✓ ssh.files		Property	Value	
Available Services				
Description				
Work with files on rer	mote systems	using the Secure Sh	nell (ssh) protocol.	
?	< Back	Next >	Cancel	Finish

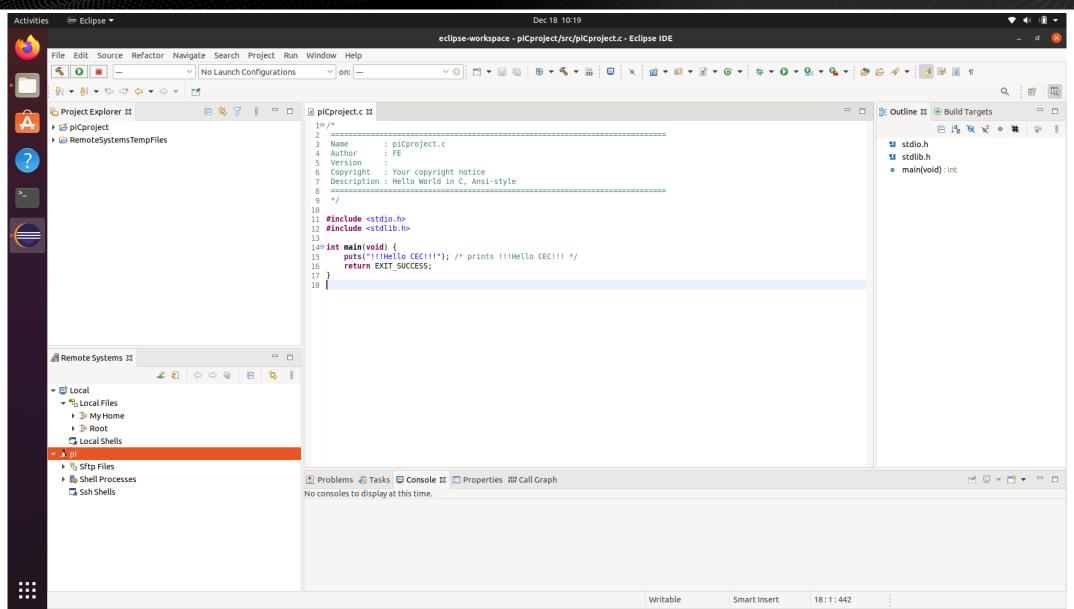
		lew Connection		_	×
Processes					
Define subsystem in	formation				
Configuration	F	Properties			
☐ dstore.processes  ✓ processes.shell.l		Property	Value		
Available Services					
∴ Shell Process S	ervice				
Description					
This configuration al contributed Shell sul	lows you to wor bsystem.	k with processes o	n remote linux sy	stems using	any
?	< <u>B</u> ack	<u>N</u> ext >	Cancel	<u>F</u> inish	















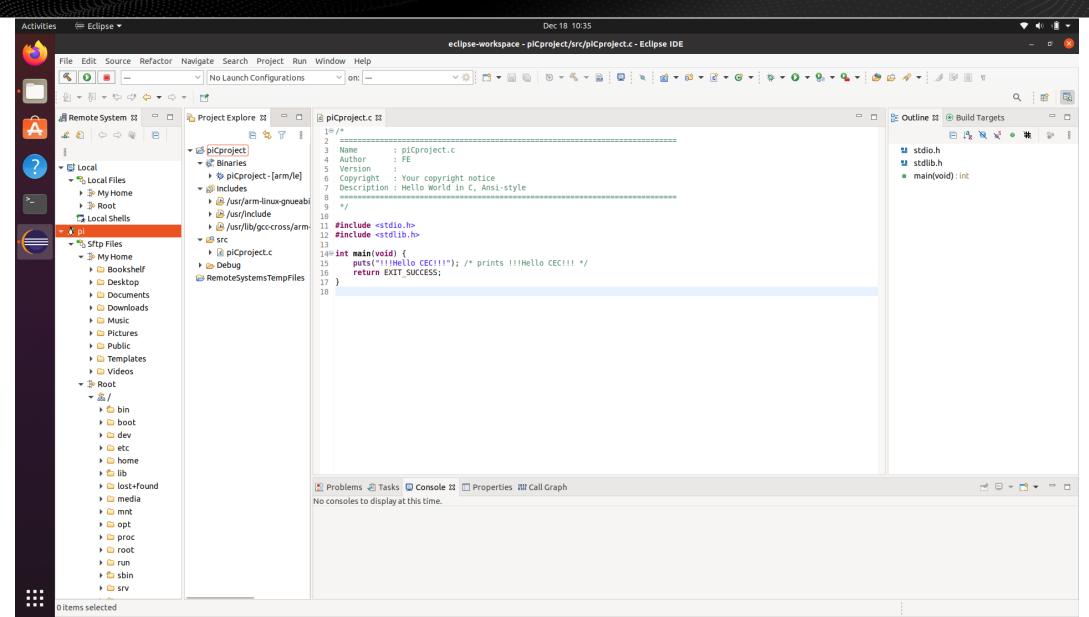
Enter Password 😢				
System type:	Linux			
Host name:	192.168.1.20			
Connection name: pi				
User ID:	pi			
Password (optional):	*****			
	Save user ID			
	Save password			
Ca	ncel OK			



#### **Using Eclipse** – Connect to the Pi

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### Thank you for attending

Please consider the resources below:

- https://www.raspberrypi.org
- https://ubuntu.com
- https://www.eclipse.org



# DesignNews

## Thank You

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