Viatris
Work instructions
Cisco FC SAN Boot Installation

Contents

1. Introduction

1.1. Purpose

The purpose of this document is to elucidate the Boot LUN (SAN) configuration on Cisco Rack servers.

1.2. Scope of this Report

The scope of this document is to explain the Boot LUN configuration on Cisco Rack servers. The procedure described in this document applies to the Global Wintel services group when installing/Configuring Physical servers.

1.3. Audience

GIDC Wintel Group

1.4. Definitions

CIMC: The Cisco Integrated Management Controller (CIMC) is the management service for Cisco Rack Server. CIMC runs within the server. You can use a web-based GUI or the SSH-based CLI to access, configure, administer, and monitor the server.

Host name: A hostname is a domain name assigned to a host computer or a network node. This is usually a combination of the host's local name.

IP address: IP address stands for internet protocol address, it is an identifying number that is associated with a specific computer or computer network. When connected to the internet, the IP address allows the computers to send and receive information.

LUN: In computer storage, a logical unit number, or LUN, is a number used to identify a logical unit, which is a device addressed by the SCSI protocol or by Storage Area Network protocols that encapsulate SCSI, such as Fiber Channel or iSCSI.

KVM: KVM stands for “Keyboard, Video, Mouse.”, The KVM console is an interface accessible from the Cisco UCS Manager GUI or the KVM Launch Manager that emulates a direct KVM connection. Unlike the KVM dongle, which requires you to be physically connected to the server, the KVM console allows you to connect to the server from a remote location across the network

2. Detailed Procedure

2.1. Prerequisites

During the boot LUN Configuration, Wintel Administrator or FE should have below details

- FC cable – to connect Server HBA port to SAN Switch.
- SAN Switch port number – can be collected from Storage team.
- LUN and details - can be provisioned by storage team.
- Physical server details – “like Serial Number and Model number”
- Cisco CIMC console and administrator account.
- Disable existing USB or HDD since Bool LUN is getting configured.

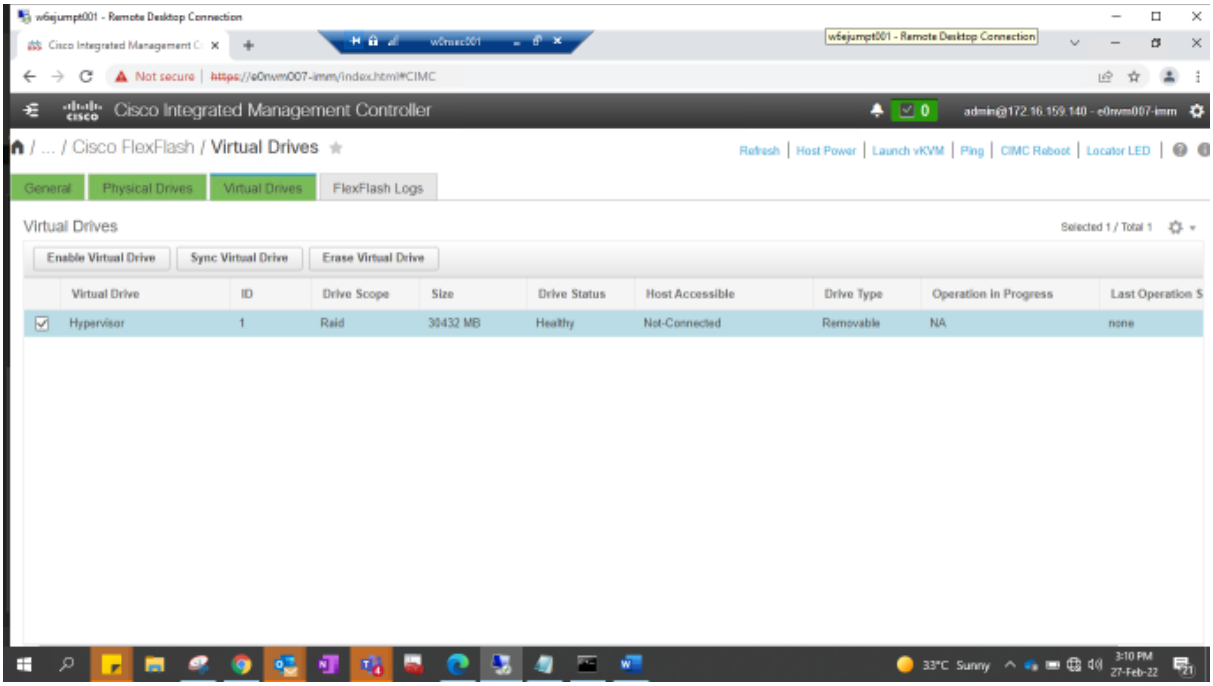
Change control required: Yes

2.2. Working knowledge

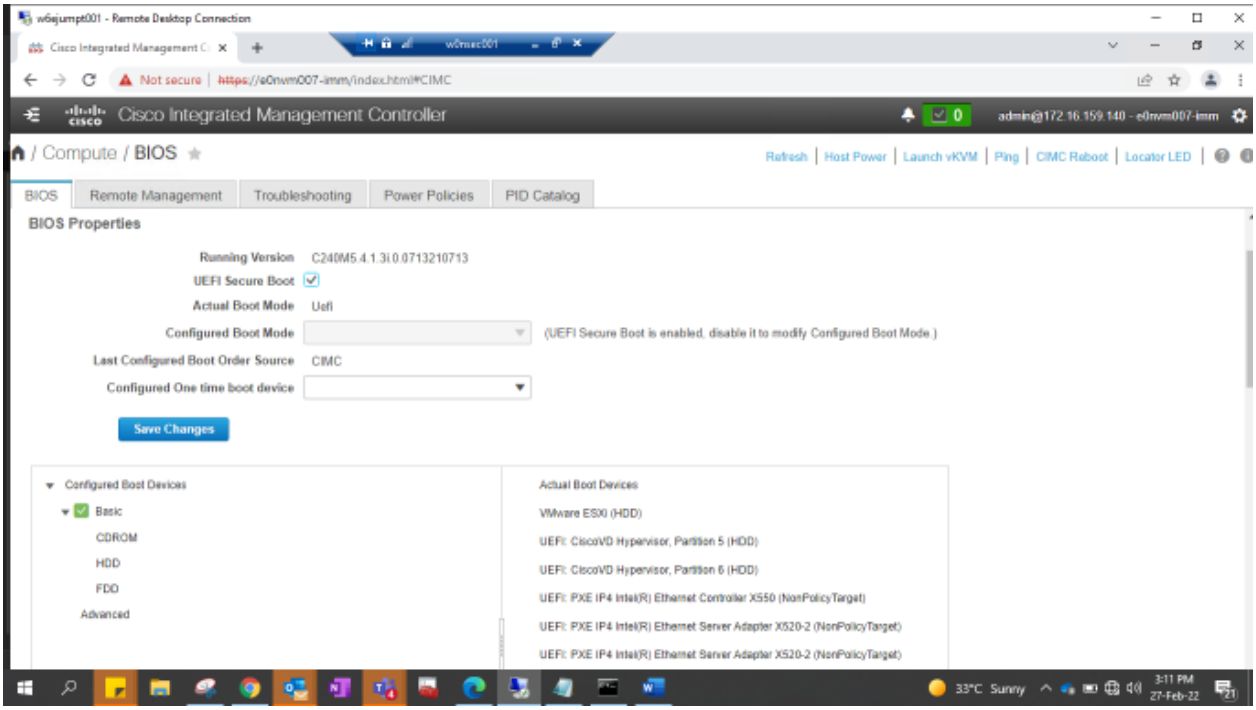
The Users, who are intended to install the physical servers and Troubleshooting hardware devices on Datacenter like administrators, architects, system engineers, who understands the Deployment or management of Cisco Physical servers.

2.3. Detailed steps

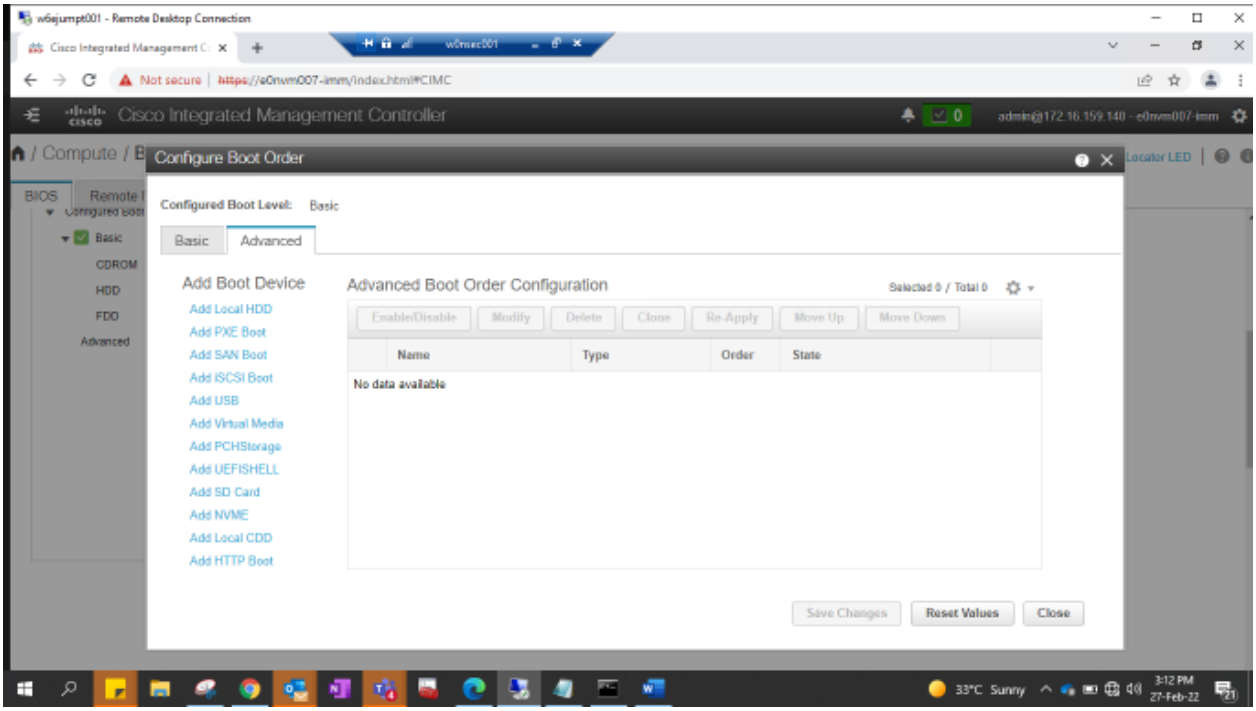
- Login to CIMC with administrate account.
- Go to storage -> Virtual Drives.
- Select VD and disable the same



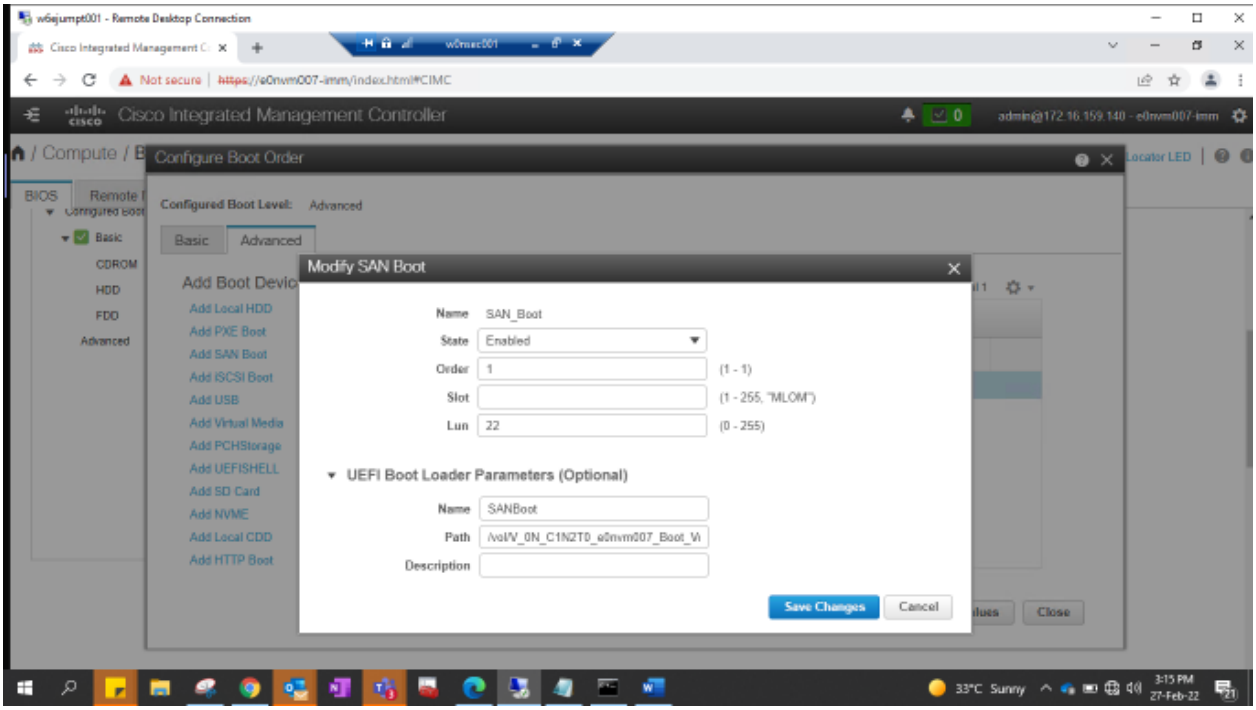
- Go to Bios setting and Enable UEFI and save changes

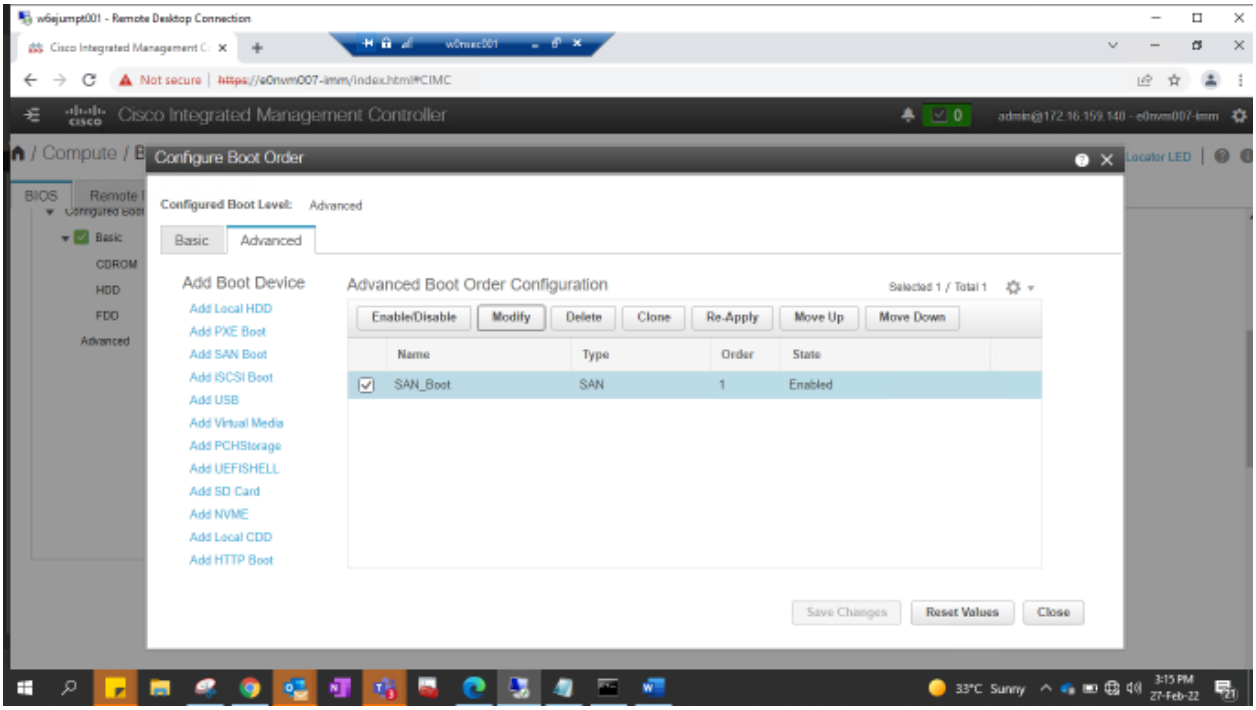


- Got to Advanced settings and Add San Boot

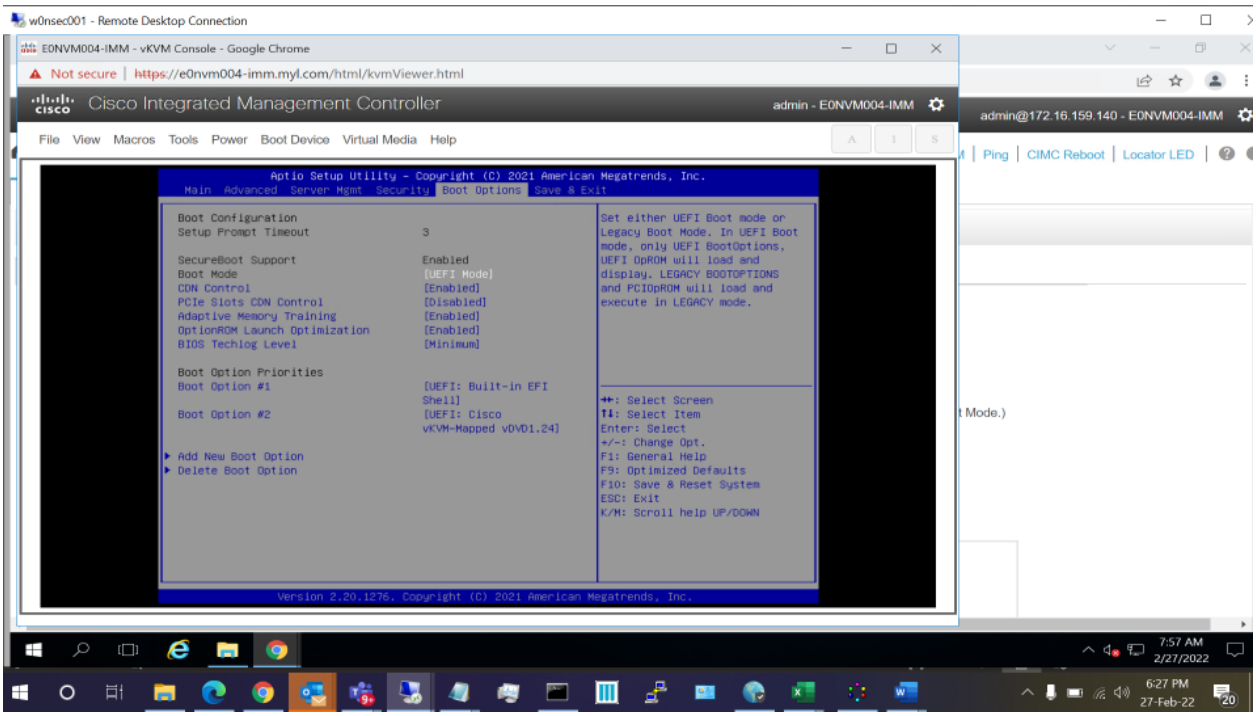


- Fill the path details and save changes.

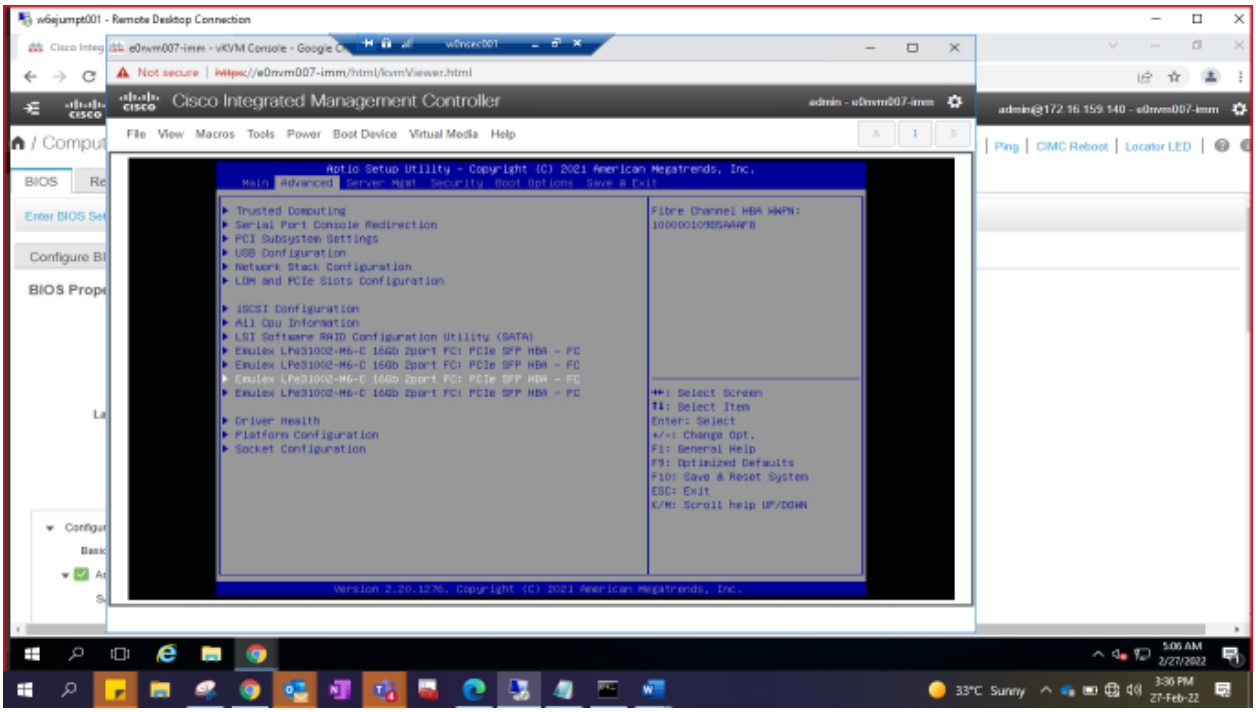




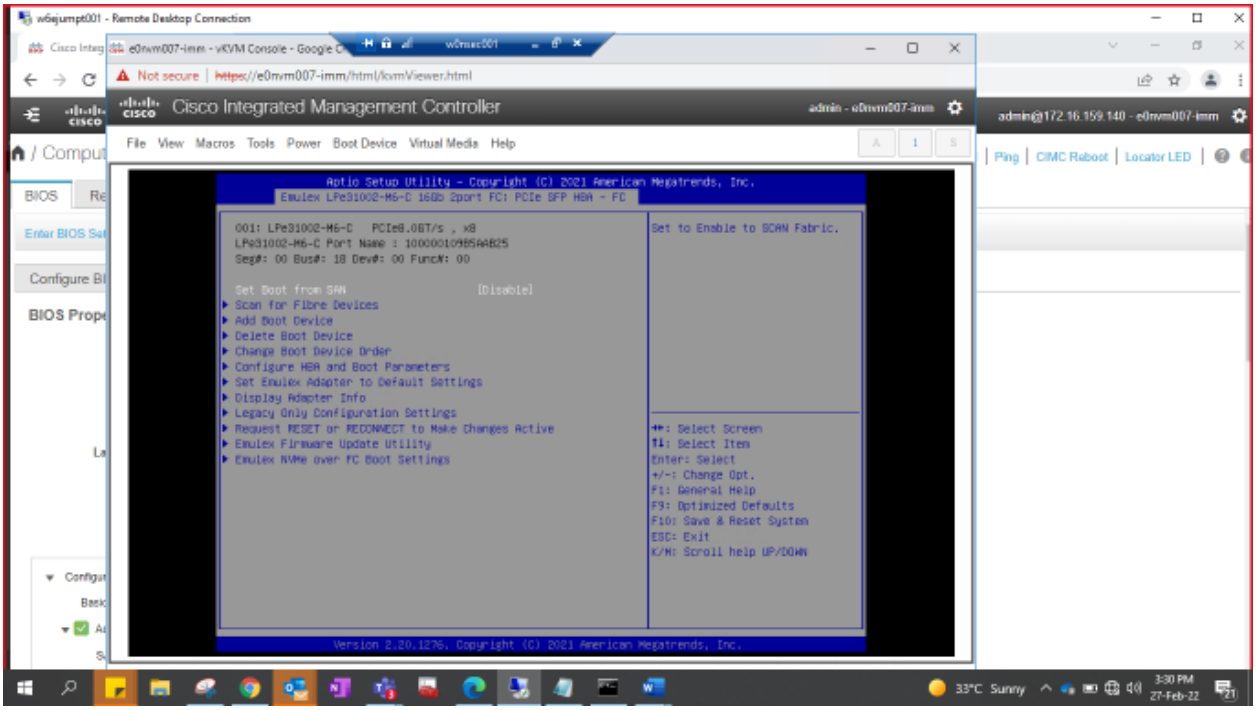
- Connect KVM console and reboot the server.
- press F2 while rebooting the server in KVM console
- Go to Boot Options and change Boot mode to UEFI.

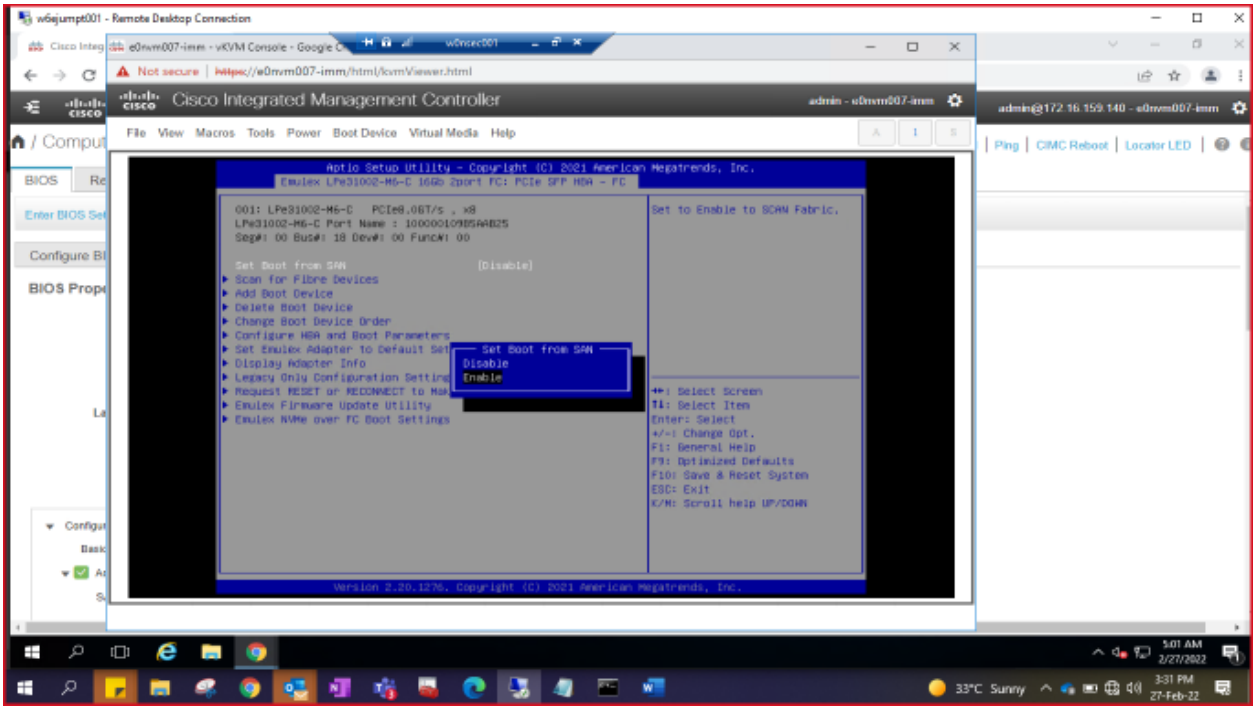


- Verify the existing connected WWPN's from the vCenter.
- Go to Advanced settings and select HBA

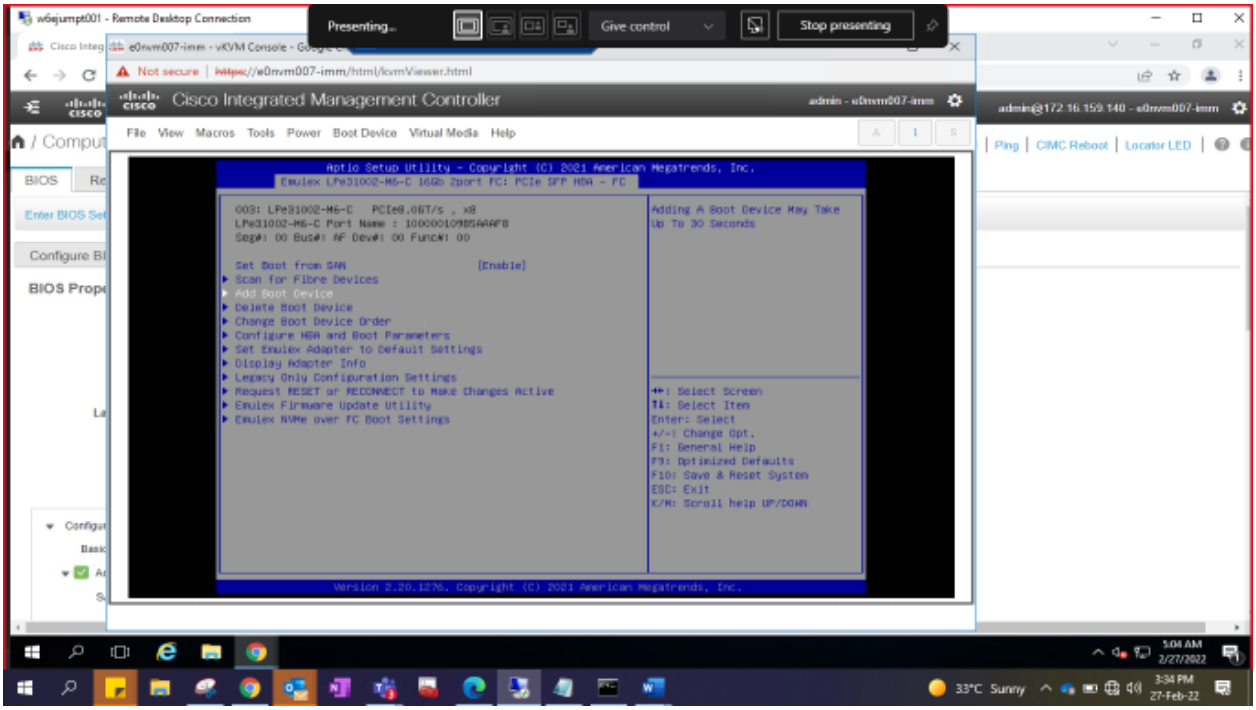


- Enable “Set boot from SAM”

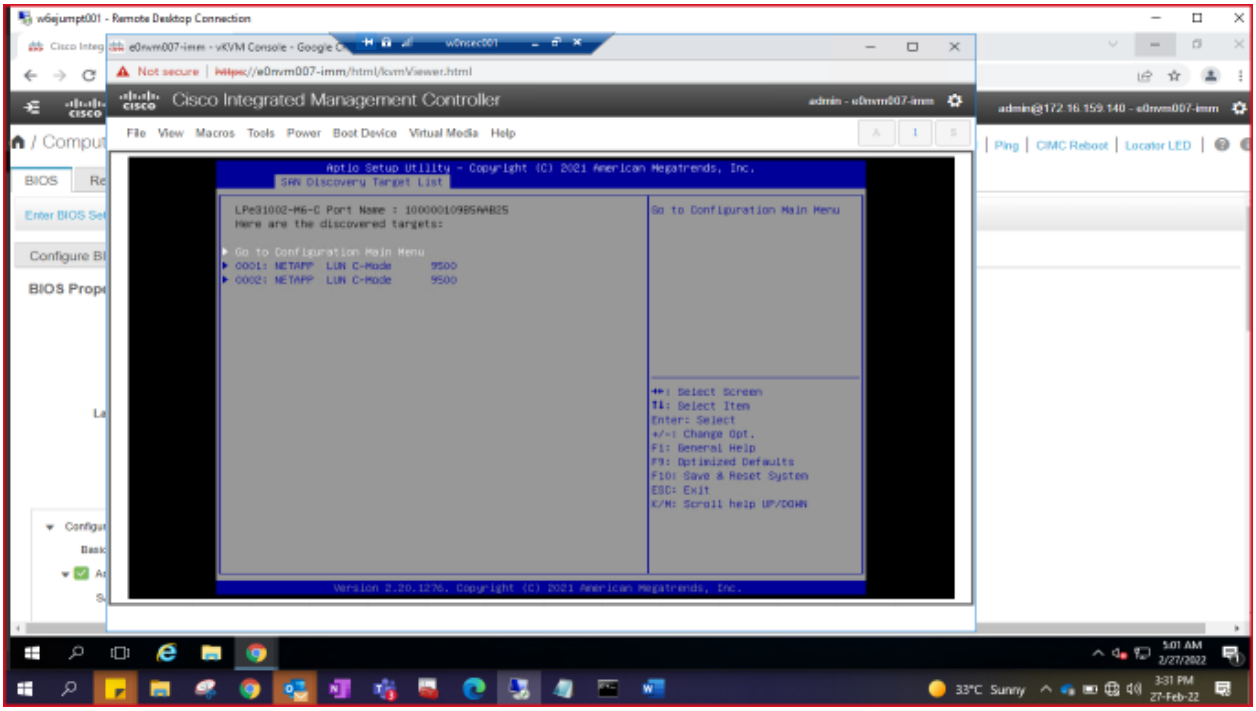




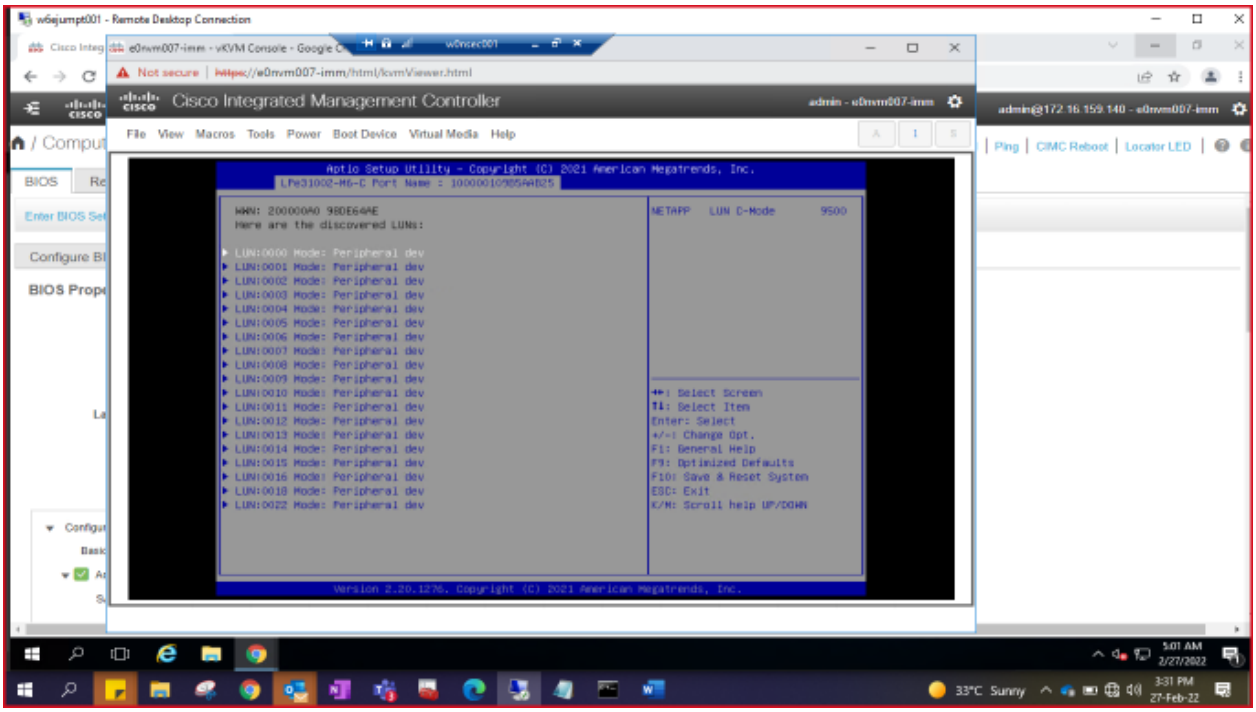
- Select “Add Boot device” to add the LUN

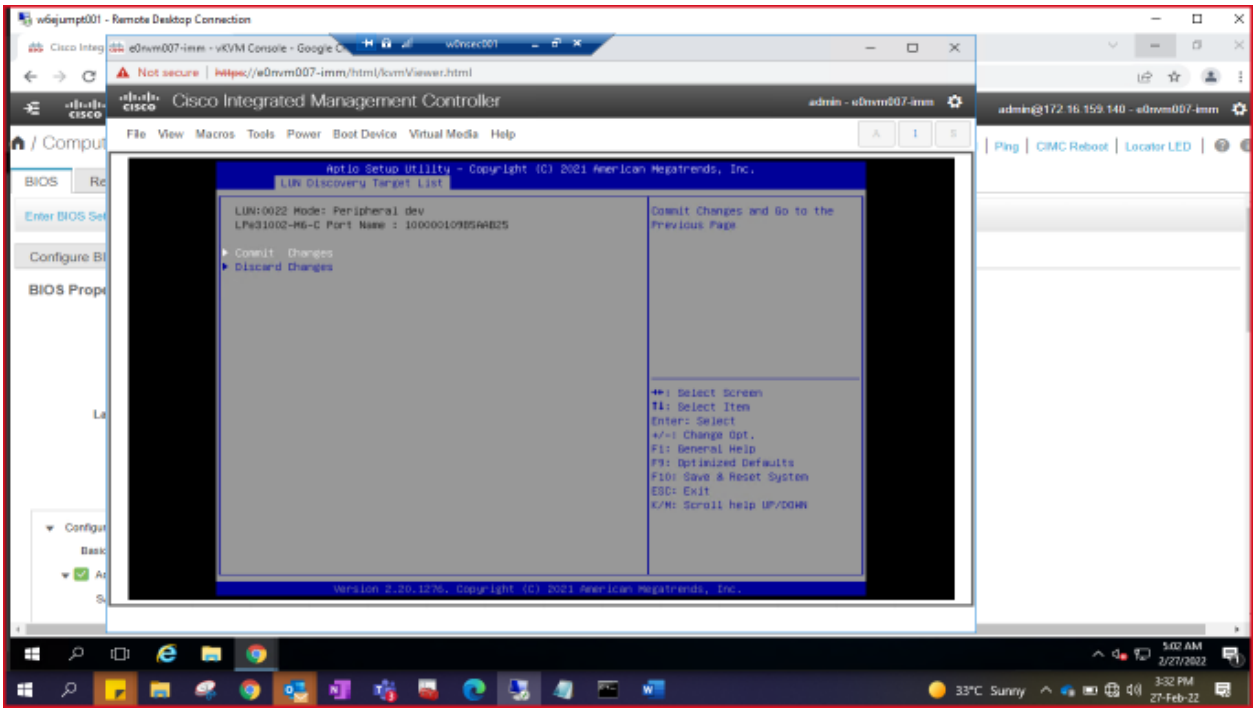


- Select the first path and press Enter

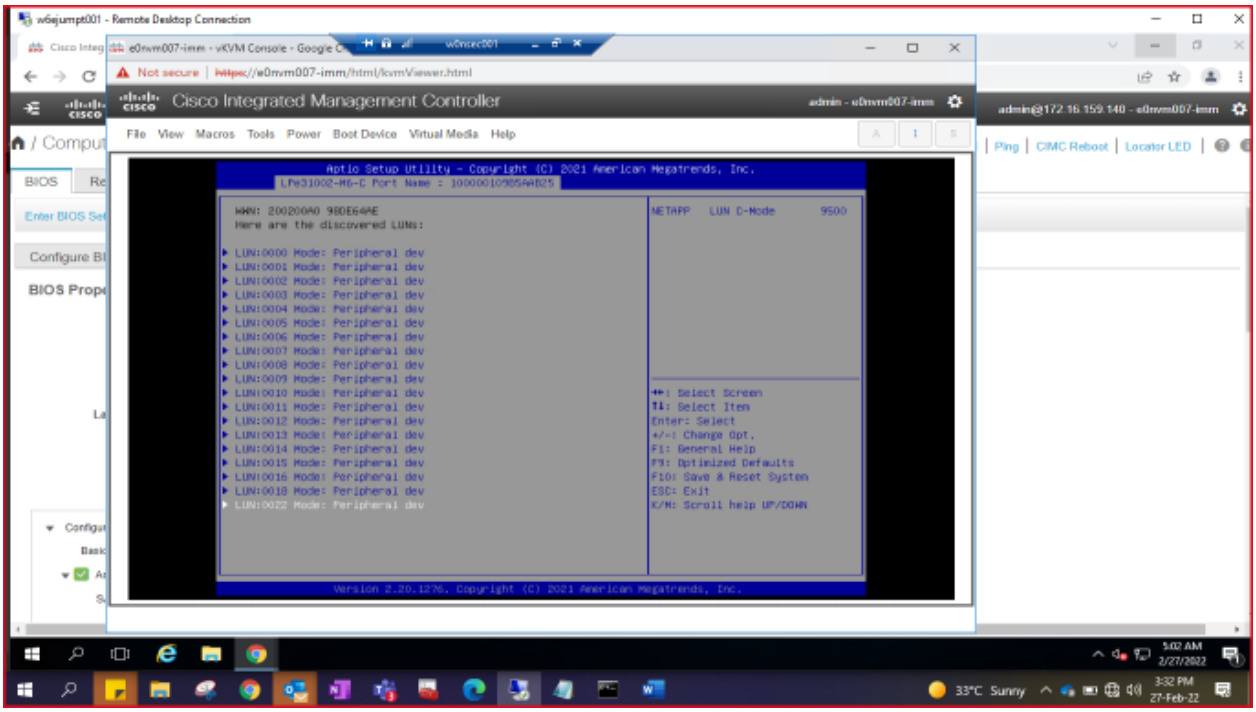


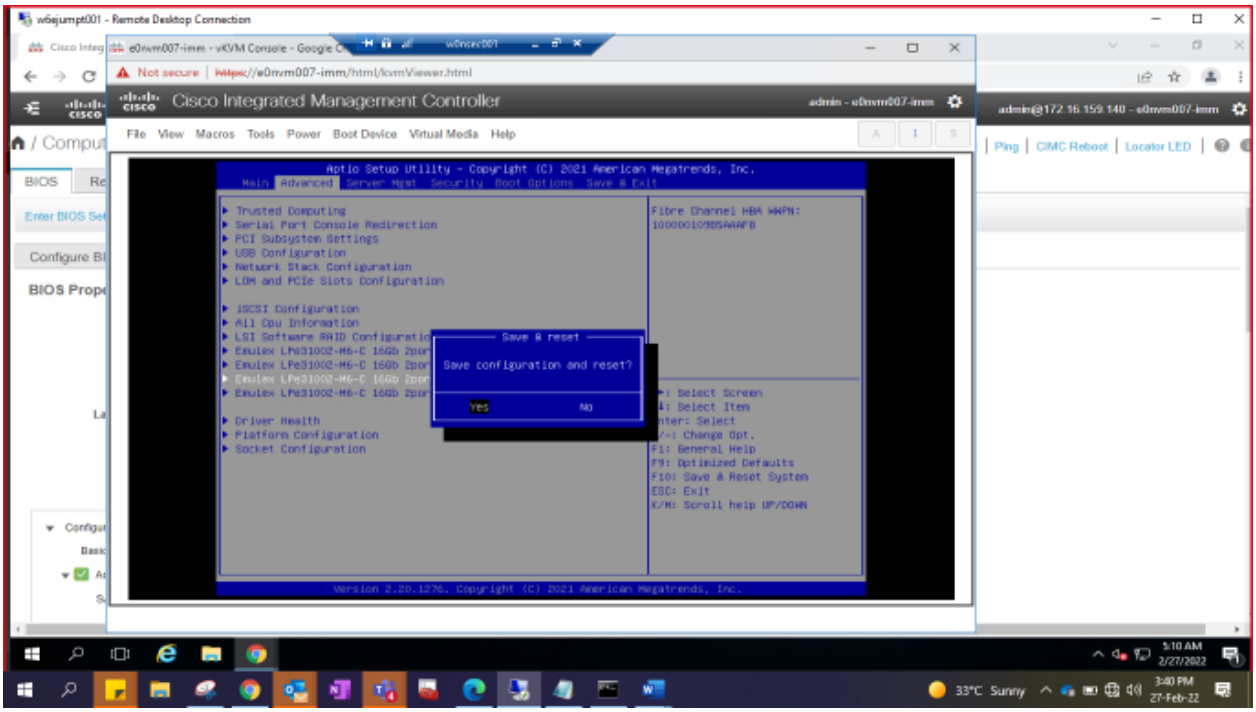
- Now select the LUN ID which is shared by Storage Team and save changes.



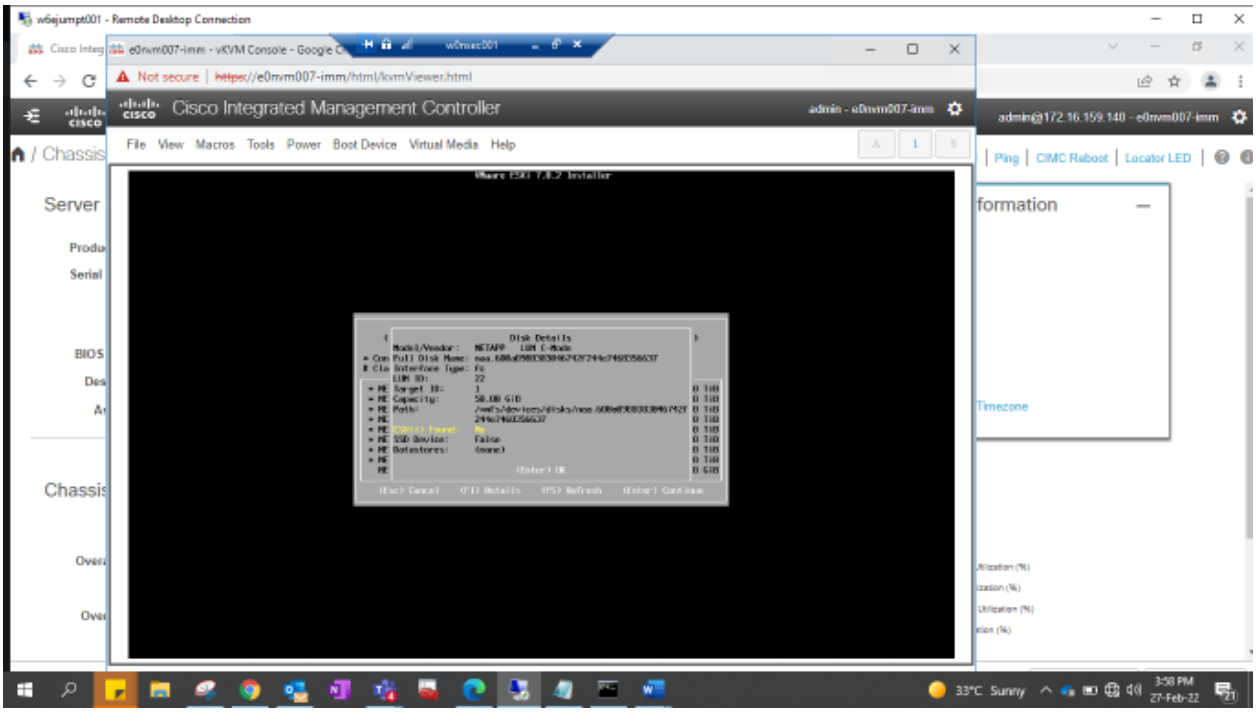


- Now repeat the same step for another path from same HBA port and reboot the server.





- Mount Esxi ISO with KVM virtual media.
- Power ON the server and boot with KVM virtual media ISO



- Now the newly added boot LUN will be visible on and we can complete ESXi installation.

3. Roles, Responsibilities

Roles	Responsibilities	Team Member Name
Maintenance Window	GIDC Wintel Team	GIDC Wintel L1 Support
Pre-requisites check	GIDC Wintel Team	GIDC Wintel L2 and L2+ Support
Change Request	GIDC Wintel Team	GIDC Wintel L2 Support
WI Execution	GIDC Wintel Team	GIDC Wintel L2 and L2+
Validation	GIDC Wintel Team	GIDC Wintel L2 and L2+

4. Escalation Matrix

Escalation Level	Name	Email
1st Level	GIDC Wintel Run	GIDC.wintel_RUN@viatris.com
2nd Level	Sathishkumar S	Sathishkumar.S@viatris.com
3rd Level	Mohandoss Murugesan	mohandoss.murugesan@viatris.com

5. Related Documentation

5.1. Additional Documentation

Additional documentation regarding the technical and procedural activities can be accessed from below mentioned document:

https://www.cisco.com/c/en/us/td/docs/unified_computing/ucs/ts/guide/UCSTroubleshooting/UCSTroubleshooting_chapter_0110.pdf

https://www.cisco.com/c/en/us/td/docs/unified_computing/ucs/ucs-manager/GUI-User-Guides/Server-Mgmt/4-1/b_Cisco_UCS_Manager_Server_Mgmt_Guide_4_1/4-1-trial_chapter_01010.html

https://www.cisco.com/c/en/us/td/docs/unified_computing/ucs/sw/gui/config/guide/3-

0/b_UCSM_GUI_User_Guide_3_0/b_UCSM_GUI_User_Guide_3_0_chapter_0100111.html

6. Version Control

Date	Version	Summary of Changes	Author	Reviewed By	Approved by
Feb 2023	1.0	Prepared	Abdul Basha Shaik	Sathish kumar S	Mohandoss Murugesan