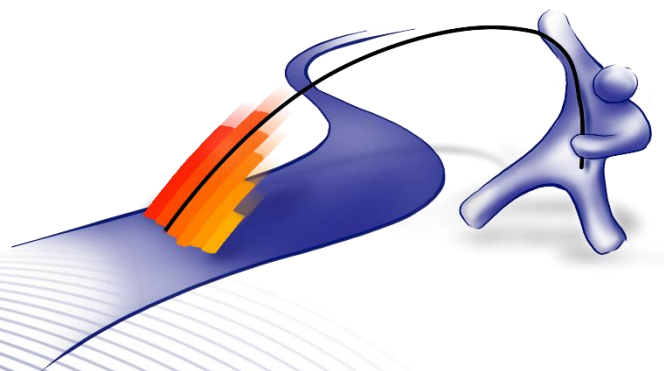


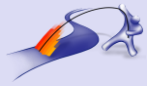


# IsarFlow

## Installation on RedHat OpenShift Virtualization

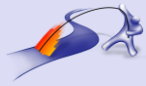
How to prepare IsarFlow Installation on  
RedHat OpenShift Virtualization





## Table of Contents

Abstract	3
Overview	3
IsarFlow installation from ISO	4
Add a new volume	4
Install the IsarFlow VM	6
About IsarFlow and IsarNet	12



# Abstract

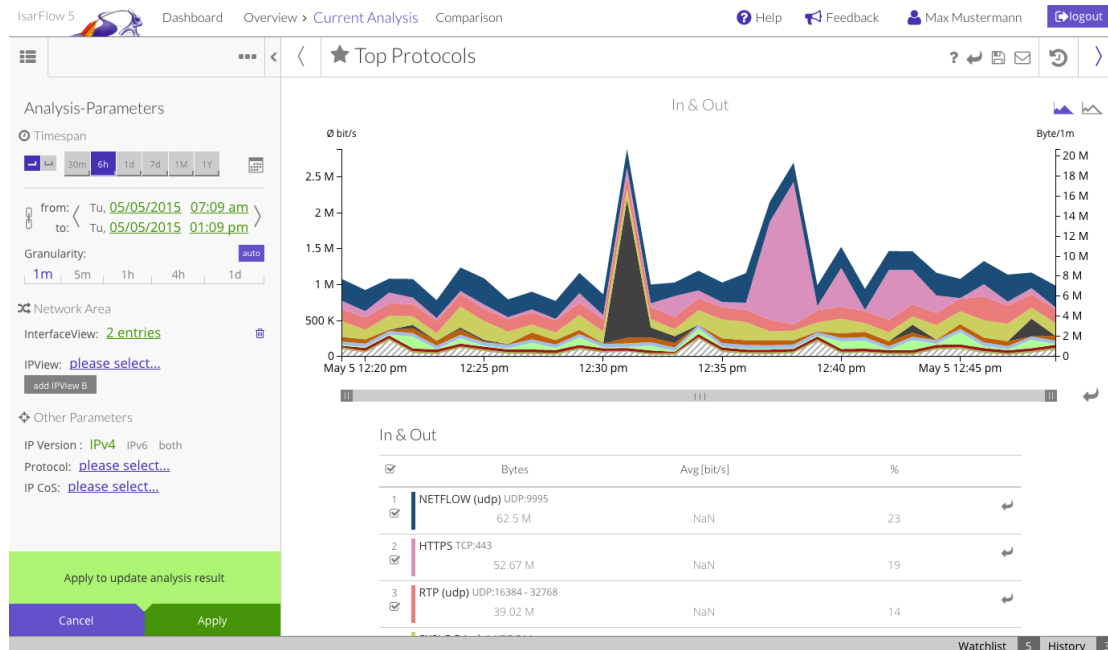
This document explains the required steps to prepare the installation of IsarNet IsarFlow on Red Hat® OpenShift® Virtualization as a VM server. The installation process itself is covered by a separate document.

# Overview

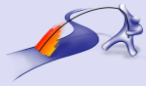
Red Hat® OpenShift® is the hybrid cloud application platform to modernize existing applications and accelerate new cloud-native application development and delivery at scale across any infrastructure.

[Red Hat® OpenShift® Virtualization](#) offers a unified platform for managing both virtual machines (VMs) and containers, reducing operational complexity and paving the way for modernization. Included as a feature of Red Hat OpenShift and based on the Kernel-based Virtual Machine (KVM) and KubeVirt open-source projects, Red Hat OpenShift Virtualization lets you migrate your Linux® and Microsoft Windows virtual machines to a unified application platform, at your own pace.

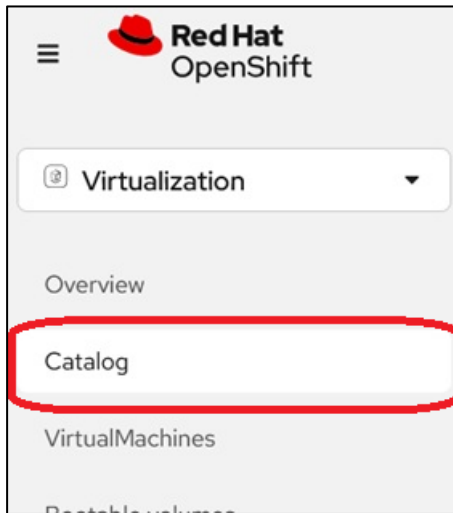
IsarFlow is a network monitoring solution based on [Netflow/sFlow/IPFIX](#) and [SNMP](#) data. With know-how and experience, it provides detailed visibility into your network - independent of the network's size.



**IsarFlow will be installed on OpenShift VM only.**



## IsarFlow installation from ISO

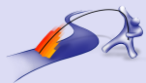


IsarFlow can be installed directly from the IsarFlow ISO, including the operating system.

To install an IsarFlow VM from ISO, the ISO file must be uploaded to the OpenShift catalog:

## Add a new volume





### Add volume ✕

Add a new bootable volume to the cluster.

**Source type**

Volume

**Source details**

**Upload PVC image \***

IsarFlow-RELEASE-5.30.6-6-SLE\_15\_SP7-IA.iso Upload Clear

This is an ISO file

**Destination details**

**Volume name \***

IsarFlow-RELEASE-5.30.6-6-SLE\_15\_SP7-IA

**Destination project**

PR default

**Disk size \***

- 1500 + GiB

**StorageClass**

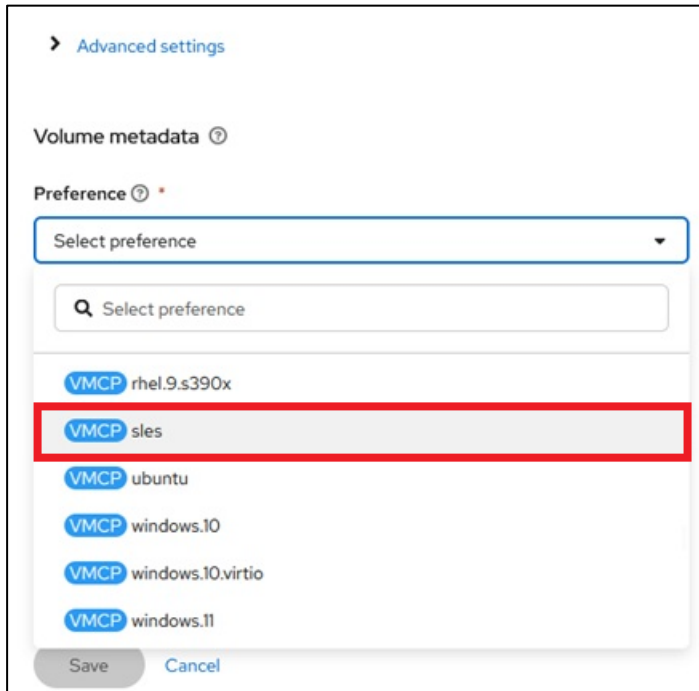
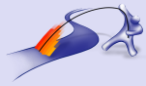
SC gp3-csi

[Advanced settings](#)

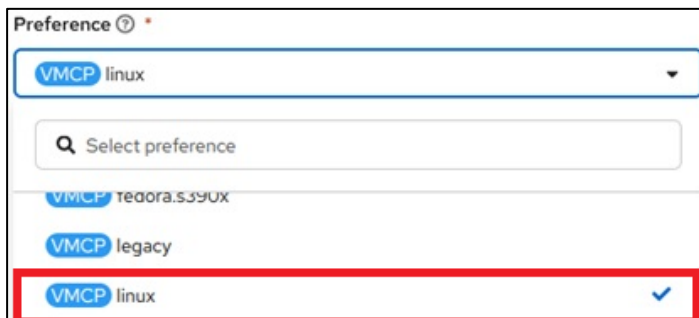
**Volume metadata** ⓘ

Save Cancel

Select the ISO to upload, select "This is an ISO file" and assign the same name as the ISO file name to avoid confusion with future uploaded IsarFlow releases. The disk size for the VM can be set right now or later during the VM installation. Select your destination project.




For the IsarFlow SLES ISO please select "VMCP sles" in "Preference"

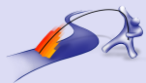


For the Rocky ISO, please select "VMCP Linux"

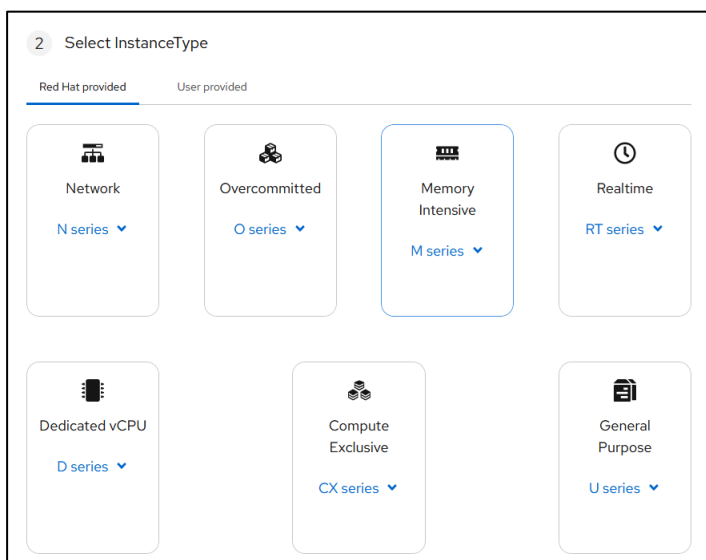
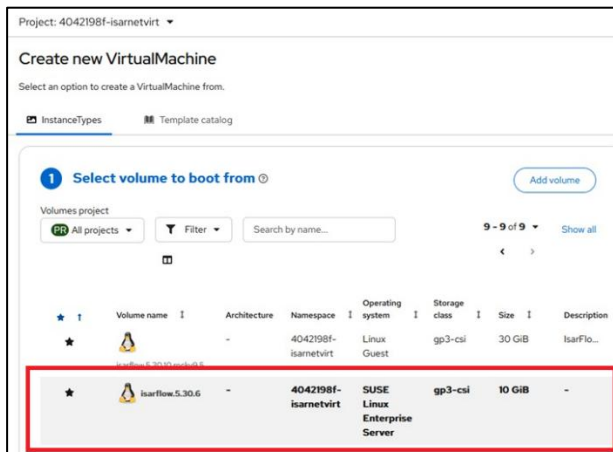
Fill in a description at will and save. The IsarFlow ISO is now added as a volume:

★	 isarflow.5.30.6	-	4042198f- isarnetvirt	SUSE Linux Enterprise Server	gp3-csi	10 GiB	-
---	---	---	--------------------------	---------------------------------	---------	--------	---

## Install the IsarFlow VM

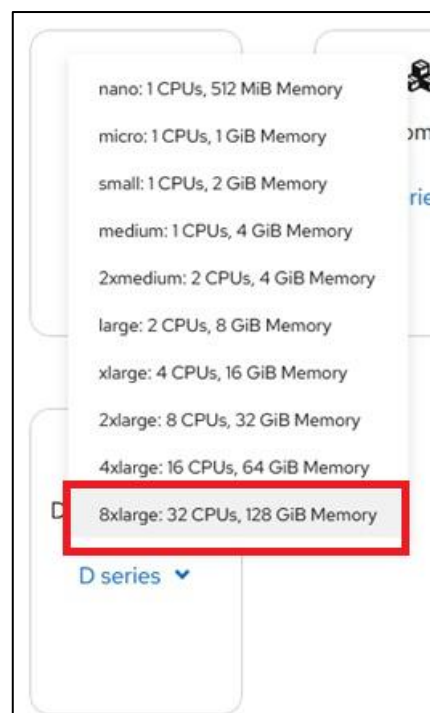


To install an IsarFlow VM now, open catalog again, select the volume you've created before as the first step.

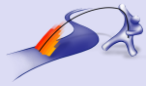


In the second step select the "InstanceType". Please contact the IsarFlow support for the recommended instance type for your installation, like number of CPUs and memory size.

Because IsarFlow use high CPU resources during data processing "Dedicated vCPU" is strictly recommended.



In the third step customize the VM name, set the disk size (please contact IsarFlow support about the correct disk size for your VM) and the public SSH key for your IsarFlow VM.



**3 VirtualMachine details**

Name \*

Project 4042198f-isarnetvirt

Operating system  GIB

InstanceType d1.8xlarge

CPU | Memory 32 CPU | 128 GiB Memory

Storage class gp3-csi

Public SSH key isarflow-2023

Dynamic SSH key injection

Before you can click on "Create VirtualMachine", you must use "Customize VirtualMachine" for the storage settings for the SLES ISO (not required for the Rocky ISO).

Start this VirtualMachine after creation

Select your disks and click on "Edit"

Project: 4042198f-isarnetvirt

### Customize and create VirtualMachine

Bootable volume: isarflow.5.30.6

YAML Configuration

Search

Details

**Storage**

Network

Scheduling

SSH

Initial run

Metadata

**Disks**

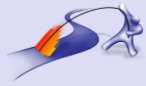
Search by name...  Mount Windows drivers disk

Name	Source	Size	Drive	Interface	Storage class
cloudinitdisk	Other	Dynamic	-	-	-
rootdisk	Other	1,95 TiB	-	-	gp3-csi
CD-ROM ISO	Other	10 GiB	CD-ROM	SATA	

Save as bootable volume

Edit

Detach



**Edit disk** ✕

Use this disk as a boot source ?

**Name \***

rootdisk

**Disk size \***

- 2000 + GiB ▾

**Type**

Disk ▾

**Interface \***

SCSI ▾

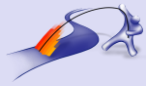
SATA  
Supported by most operating systems including Windows out of the box. Offers lower performance and limited Certifying it for CD-ROM devices

**SCSI** ✓  
Paravirtualized iSCSI HDD driver offers similar functionality to the virtio-block device, with some additional enhancements. In particular, this driver supports adding hundreds of devices, and names devices using the standard SCSI device naming scheme.

VirtIO  
Optimized for best performance. Supported by most Linux distributions. Windows requires additional drivers to use this model.

Change the interface to SCSI

Click on save and create your virtual machine. After booting, follow the IsarFlow installation procedure.



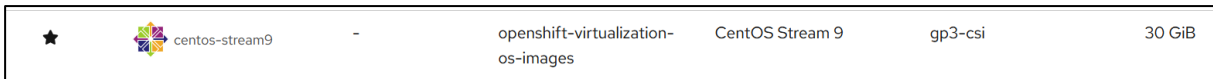
## IsarFlow Installation on customer RedHat derivatives

IsarFlow can also be installed on a predeployed RedHat derivate in OpenShift.

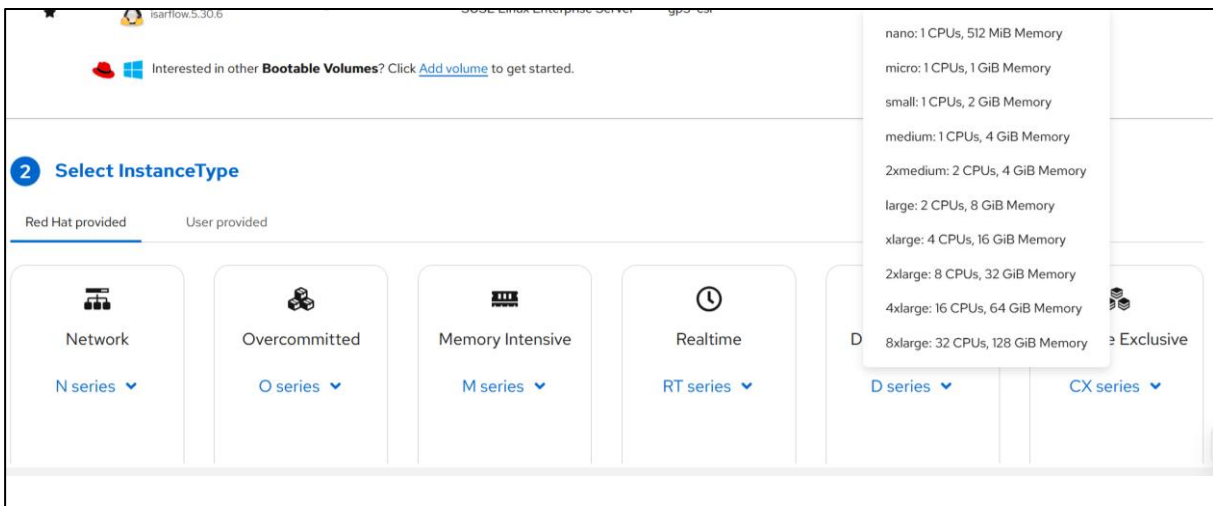
As an example, IsarFlow will be installed on CentOS Stream 9.

### Install your CentOS VM

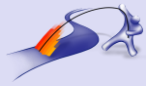
Install your CentOS from your catalog, please contact the IsarFlow support for supported versions.



Select the "InstanceType" (Please contact the IsarFlow support about the sizing of your VM).



Set the correct disk size (Please contact the IsarFlow support about the sizing of your VM).



### Edit disk ✕

**Adding hot plugged disk**  
Additional disks types and interfaces are available when the VirtualMachine is stopped.

Use this disk as a boot source ?

**Name \***  
rootdisk

**PersistentVolumeClaim size \***  
- 120 + GiB ▾

**Type**  
Disk ▾  
Hot plug is enabled only for Disk and LUN types

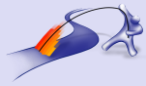
**Interface \***  
VirtIO ▾  
Hot plug is enabled only for SCSI and VirtIO interfaces

[Advanced settings](#)

[Save](#) [Cancel](#)

After the VM setup, install your RedHat derivative. Please contact the IsarFlow support for the recommended partitioning for your VM.

Copy the IsarFlow Rocky ISO file to the system, e.g. /var/tmp/ and follow the instructions to install IsarFlow on a custom OS.



## About IsarFlow and IsarNet

Data networks form the backbone of modern enterprises and digital communication have become more important than ever. Moreover, the economic efficiency of the entire IT infrastructure has become a decisive competitive factor. IsarNet is your competent and reliable partner for all complex topics concerning your network. Based on many years of experience we develop and realize economical solutions for your business-critical networks selecting individually suitable technologies.

IsarNet's range of services includes network design and support with state-of-the-art technologies, services to increase productivity and efficiency as well as individually tailored technology workshops for efficient knowledge transfer.

Our product IsarFlow is a performance management solution for enterprise and service provider networks. Based on NetFlow, IP SLA, CBQoS and SNMP data, it provides valuable information on network utilization, compliance with IP Service Level Agreements and detailed analysis of traffic flows and Quality of Service.

Our mission is to enhance the efficiency and competitiveness of our customers throughout the digital age.

IsarNet Software Solutions GmbH

Terminalstrasse Mitte 18

85356 Munich, Germany

Phone: +49 89 97007 499

[isarflow@isarnet.de](mailto:isarflow@isarnet.de)