

H3C Core Switch IRF



Article Overview

H3C's Intelligent Resilient Framework (IRF) technology allows multiple switches to be virtualized into a single logical switch, enhancing network availability, scalability, and management efficiency.

Overview of IRF Technology

The Intelligent Resilient Framework (IRF) is a virtualization technology developed by H3C that enables the connection and management of multiple switches as a single entity, known as an IRF fabric. This approach simplifies network topology and enhances the overall resilience and scalability of data center networks.

Key Benefits of IRF

- **Simplified Management:** An IRF fabric appears as a single node on the network, allowing administrators to manage all member switches through a single IP address. This eliminates the need for spanning tree protocols among IRF members, streamlining network management .
- **High Availability:** IRF provides 1:N redundancy, where one switch acts as the master to manage the fabric while others serve as backups. If the master fails, another member is elected to take over, ensuring uninterrupted service .
- **Scalability:** The processing capacity of an IRF fabric is the sum of all member switches, allowing for easy expansion by adding more switches without altering the network topology. This flexibility supports increased bandwidth and port availability .
- **Link Aggregation:** IRF supports both IRF link aggregation and multichassis link aggregation, enabling load balancing and redundancy across physical links between member switches and upstream or downstream devices

Article Content

Feb 26, 2026

H3C S5500-HI Switch Series IRF Configuration Guide | Manualzz

This guide instructs users on how to use multiple S5500-HI switches to create an IRF fabric based on Intelligent Resilient Framework

Oct 31, 2025

How to build an IRF-Stack with HP Switches 5xxx

How to build an IRF-Stack with HP Switches 5xxx IRF (Intelligent Resilient Framework) is an innovation

Mar 14, 2026

H3C S9500E Series Routing Switches: IRF Configuration Guide

H3C S9500E series documentation set includes 14 configuration guides. The IRF Configuration Guide describes the Intelligent

Apr 12, 2026

Intelligent Resilient Framework

Intelligent Resilient Framework (IRF) is a proprietary software virtualization technology originally developed by Huawei 3Com. It can

Jun 20, 2026

How to build an IRF-Stack with HP Switches 5xxx

IRF (Intelligent Resilient Framework) is an innovation from H3C. Hewlett-Packard has acquired the H3C

Mar 13, 2026

H3C S10500X-G Series Next Generation Core Switch

H3C S10500X-G is a high-end Switch series designed for the core layer in intelligent Campuses and Data Centers.

Mar 27, 2026

Switch Stacking/IRF H3C switches #shorts

In this video, I show you H3C switch IRF/Stacking practically, complete video link below Stacking/IRF Complete

Jul 17, 2026

H3C S10500X Series Multiservice Core Switch

H3C S10500X series switch is designed for the core layer of data centers and next-generation campus networks as well as the

May 18, 2026

Configuring H3C IRF Networking Steps

Configuring H3C IRF Networking Steps The document provides steps to configure HP Networking IRF (Intelligent Resilient

Jul 30, 2025

How to Stack (IRF) 2, 3 & 5 H3C Switches | Correct Topology & Cabling

Today I will focus on the practical part of two, three & five H3C switch stacking connectivity & configuration. Lets start.

Jan 21, 2026

IRF stack configuration (2 x HPE 5130 switches)

IRF (Intelligent Resilient Framework) is a proprietary virtualization/stacking technology used in some HPE switches. It

Sep 24, 2025

Configuring H3C IRF Networking Steps

The document provides steps to configure HP Networking IRF (Intelligent Resilient Framework) which allows multiple switches to be

Aug 12, 2025

H3C S7500X Enterprise Core Switch Series

The H3C S7500X series switch is designed for the next-generation enterprise core networks. It adopts modular design, uses H3C's

May 07, 2026

Switch Stacking/IRF Configuration | H3C switches IRF Setup

Switch Stacking/IRF Configuration | H3C switches IRF Setup In this video, I demonstrate how to configure H3C IRF

Contact Us

For more information, pricing, or custom solutions, please contact us:

Website: <https://www.greatpremiersolutions.co.za>

Email: sales@greatpremiersolutions.co.za

Phone: +27 82 914 3675

Address: Unit 5, Silicon Heights, 22 Electron Avenue, Cape Town, 8001, South Africa

This document is for informational purposes only. Specifications subject to change without notice.

