Network Virtualization using Generic Routing Encapsulation

**Network Virtualization using Generic Routing Encapsulation** (**NVGRE**) is a [network virtualization](https://en.wikipedia.org/wiki/Network_virtualization) technology that attempts to alleviate the [scalability](https://en.wikipedia.org/wiki/Scalability) problems associated with large [cloud computing](https://en.wikipedia.org/wiki/Cloud_computing) deployments. It uses [Generic Routing Encapsulation](https://en.wikipedia.org/wiki/Generic_Routing_Encapsulation) (GRE) to tunnel [layer 2](https://en.wikipedia.org/wiki/Layer_2) packets over [layer 3](https://en.wikipedia.org/wiki/Layer_3) networks. NVGRE is described in the IETF [RFC 7637](https://tools.ietf.org/html/rfc7637).[[1]](https://en.wikipedia.org/wiki/Network_Virtualization_using_Generic_Routing_Encapsulation#cite_note-1) Its principal backer is [Microsoft](https://en.wikipedia.org/wiki/Microsoft).[[2]](https://en.wikipedia.org/wiki/Network_Virtualization_using_Generic_Routing_Encapsulation#cite_note-2)