CSR AWS FAQ (Hourly Billing)

What Cisco operating system does CSR1000V run?

CSR1000V runs the IOS-XE operating system. IOS-XE runs on several Cisco hardware platforms including the ASR1000 series of routers.

Will all IOS-XE features work in the EC2 environment?

CSR1000V supports a number of IOS-XE features including Routing, ACL, NAT, Firewall and IPsec. This is the Advanced feature package of the CSR. However, some of these features will not work in the EC2 environment, due to limitations of the AWS infrastructure. For example, AWS does not support multicast and MAC learning. Consequently, features such as HSRP, dot1q, OTV, etc will not work.

Do you provide an evaluation license for the CSR 1000V?

CSR1000V is available for a 30 day free trial. This is calculated as 30 calendar days. The CSR instance will be fully featured during this trial period. i.e. all features available in the paid version will be active. After the 30 day period, the instance will be billed.

What determines the forwarding performance of the CSR 1000V?

Performance is a function of many factors. Generally speaking, the higher CPU capacity instances will provide better forwarding performance than the lower CPU capacity instances. Secondly, the IOS features used have an impact on CSR performance. Processor intensive features such as IPsec and deep packet inspection are examples of such CPU intensive features. Thirdly, IP packet sizes have an impact on the forwarding performance measured in Mbps. Finally, like most public Cloud environments, the EC2 environment introduces some degree of variability and CSR performance could vary accordingly as well.

How do I manage the CSR1000V?

Access to the CSR is through SSH. For instructions on SSH access, see the installation guide here:
http://www.cisco.com/c/en/us/td/docs/routers/csr1000/software/aws/csraws/awsinstall.html

The CSR also supports a RESTful API for configuration and monitoring purposes. More details here:
http://www.cisco.com/c/en/us/td/docs/routers/csr1000/software/restapi/restapi/RESTAPIintro.html

The CSR VM can also be managed using EC2 APIs, just like any other EC2 instance.

What AWS regions can the CSR1000V run on?
 CSR is supported on all 8 well known regions including the secure GovCloud region.

What are the most common use-cases for the CSR1000V on AWS?

The primary use-cases for the CSR include:

> ➢ IPsec VPNs – secure tunnels from outside AWS to workloads in EC2 using the CSR as the VPN gateway
> ➢ VPC Interconnect – securely connect VPCs in different regions by deploying a CSR instance at each VPC
> ➢ Zone Based Firewall – CSR1000V interfaces can be assigned to different zones and rules can be specified to control traffic between the zones.
> ➢ Network Address Translation (NAT) – CSR1000V can be configured to allow inside EC2 instances to directly access the Internet using the Elastic IP of the outside interface