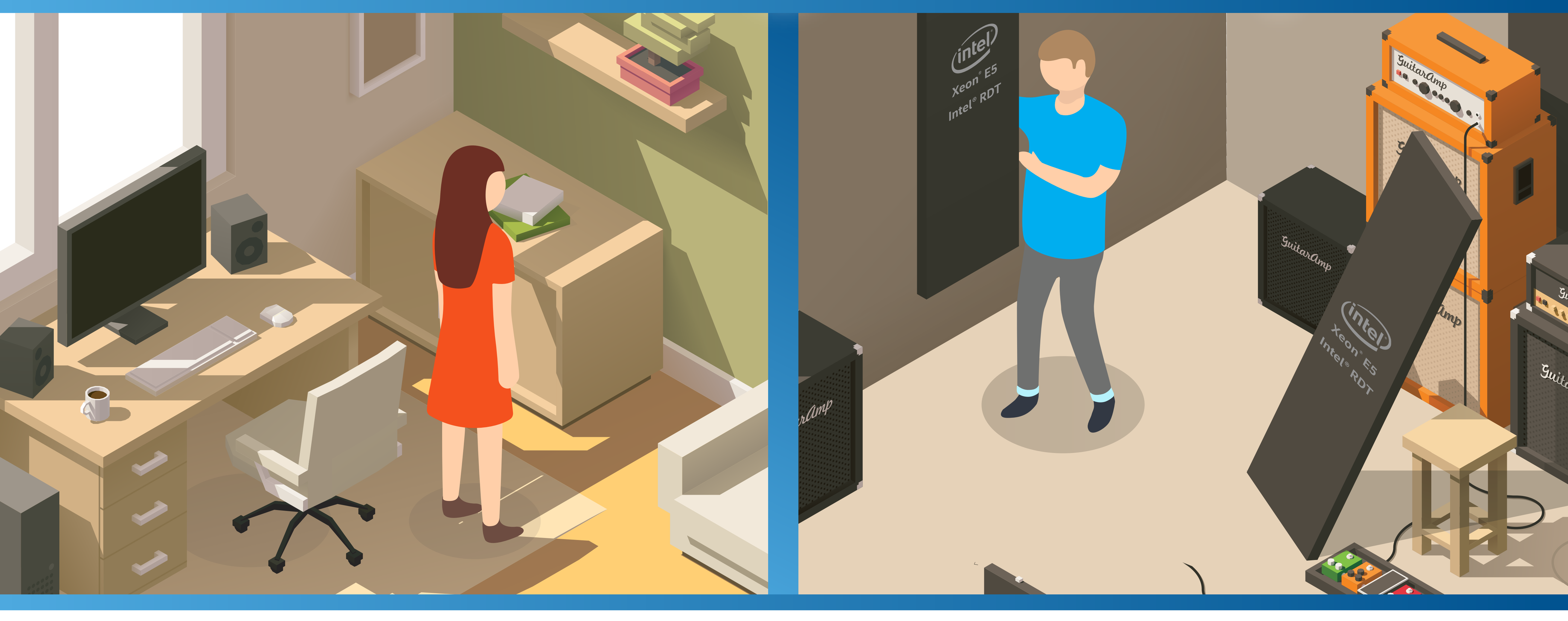
NOISY NEIGHBORS IN THE CLOUD WITH INTEL® XEON® E5 V4 FAMILY AND CACHE ALLOCATION TECHNOLOGY

THE PROBLEM:

DEALING WITH "NOISY NEIGHBORS"

We all know a garage band practicing next door can be a nuisance. Noisy neighbors in cloud computing are no different. In this sense, though, a "noisy neighbor" is a co-tenant that gobbles up bandwidth and other resources, slowing down and negatively affecting performance. It's a problem AppFormix* set out to solve.

ENTER THE INTEL XEON E5 V4 PROCESSOR FAMILY



THE SOLUTION:

GET SILENCE SO YOU CAN FOCUS WITH INTEL® XEON® E5 V4 FAMILY AND INTEL® RESOURCE DIRECTOR TECHNOLOGY

By using elements of the Intel® Resource Director Technology (Intel® RDT), introduced in the Intel® Xeon® E5 v4 family, AppFormix was able to increase visibility, control, and performance isolation between applications — effectively cutting out all the "noise."

Neutralizing noisy neighbors thanks to Intel® RDT in its software and server platforms, AppFormix enhanced enforcement of priority levels, provided advanced provisioning capabilities, and mitigated noisy neighbor effects.

THE RESULT:

THE INTEL® XEON® E5 V4 FAMILY'S CACHE ALLOCATION TECHNOLOGY INSULATES AGAINST NOISE TO BOOST PERFORMANCE

Cache Allocation Technology, part of the Intel® Xeon® E5 v4 processor family, insulates against noise to boost performance for improved throughput results and prioritized NGINX* web server yields to contain "noisy neighbors."

The AppFormix software suite leveraged Intel® CAT to reduce latency, improving the experience for end users.

Cloud and data center orchestration performance **improved up to 27%[1]**.

Web server response time **improved up to 51%[2]**.

Sources:

Intel® Xeon® Processor E5-2600 v4 Product Family EAMG http://intel.ly/2ntWKkl

Intel® Solution Brief "AppFormix: Realize The Performance Of Your Cloud Infrastructure" http://intel.ly/2ne74f7