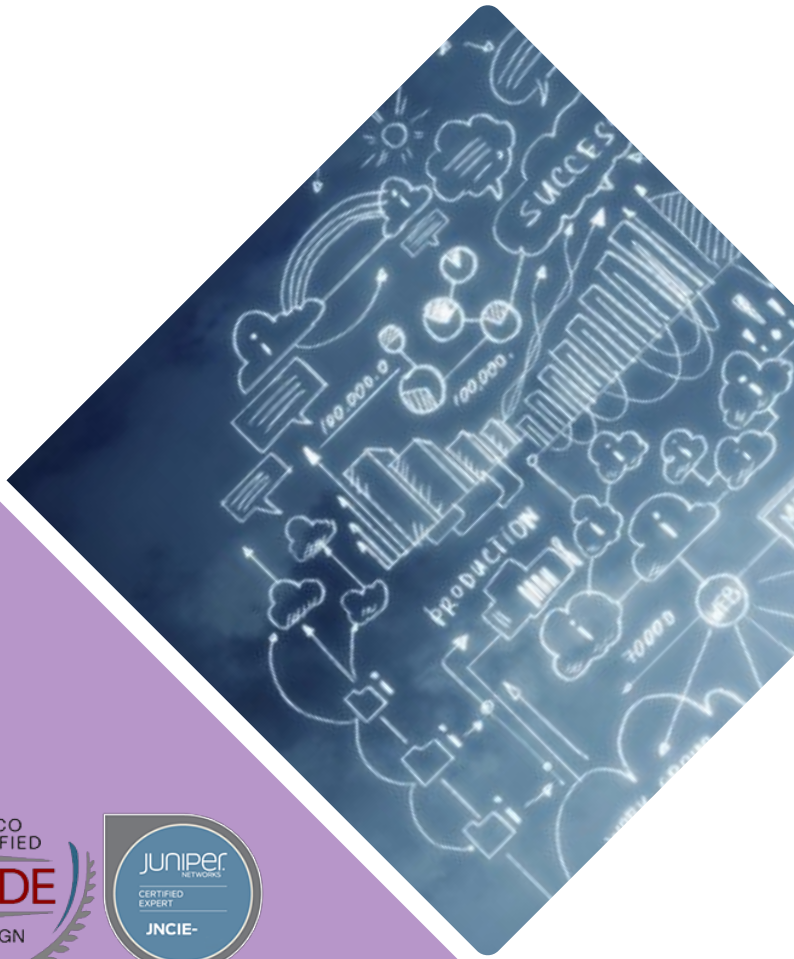
Infrastructure Architecture

Elite IT Experts



About Us

To be an Ineapple architect one must have 10+ years of IT experience and have at least 2 active expert certifications from the list below.

CISCO CERTIFIED CCIE

CISCO CERTIFIED CCDE DESIGN

JUNIPER NETWORKS CERTIFIED EXPERT JNCIE-

vmware CERTIFIED DESIGN EXPERT

redhat CERTIFIED ARCHITECT

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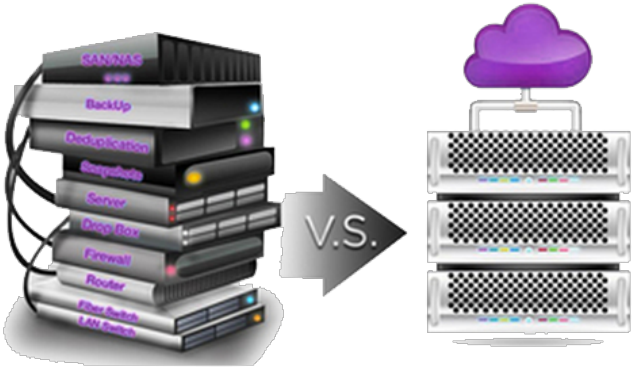
Vendor Validated Designs

Technology vendors like Cisco, VMware, Juniper, Dell, HPE, Check Point, Palo Alto Network, and others spend a tremendous amount of research, development and testing to provide a solution that fits a specific enterprise goal.

We are aware of all the caveats and know where to properly apply vendor validated designs in your enterprise. Moreover, we always keep the big picture in mind to make sure the selected design fits into the overall architecture.



Reference Architectures

Have you heard of converged infrastructure solutions such as SmartStack, Vblock, FlexPod, FlashStack, VSPEX, VersaStack, or OpenStack? These solutions often arise from vendor partnerships.

We can provide a best fitting converged infrastructure solution for you or design a custom solution that fits with currently owned hardware. We can also provide support for such solutions for the entire stack.

Business Continuity

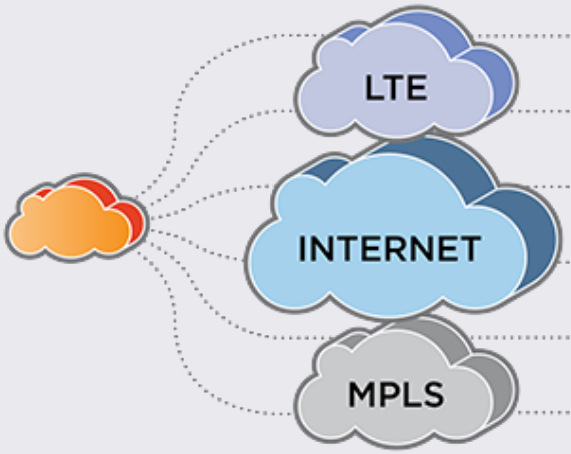
Disaster recovery is a procedure that allows the recovery of services after an unexpected failure. Business continuity is a survivable architecture that does not need any manual intervention in the event of any failure.

We use enterprise automation tools, create custom scripts, and use built-in protocols and technologies to provide you with the best business continuity solution that fits your budget.

WAN Architecture

Whether you need a simple WAN design with p2p circuits, multi-provider WAN with MPLS, manage your own MPLS, or an SD-WAN solution, we can design, deliver, and support your WAN.

Our WAN portfolio consists of variety of vendors and technologies such as Cisco, Juniper, HPE, Riverbed, SilverPeak, CloudGenix, and VeloCloud.



Cloud Architecture (AWS/Azure)

While it is a healthy attitude to ask yourself if your entire service catalog can be migrated to the cloud, it is seldom the right step to blindly move everything to the cloud. Cloud is another tool in your toolbox, not an answer to all your problems.

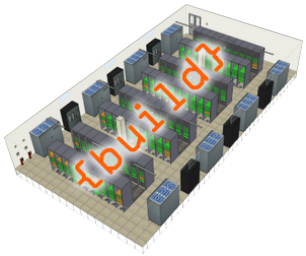
We have seen success and failure stories and will help you identify caveats, pain points, benefits, and a clear path to have a successful cloud consumption.

Security Architecture

We will identify a current risk profile and work with you to create a target risk profile. Standards and frameworks like “NIST Cybersecurity Framework” will be used for the risk profile identification unless another framework is required.

We then architect or modify current solutions to provide the best fitting security design in your data center, cloud, on your hosts, access to your network, access through the perimeter, and anomaly prevention.

Software Defined Data Center



There are many ways to achieve a SDDC solution. However, there are no complete solutions available today that will allow you to provision your own storage, network, compute hardware, hypervisor, container, OS, and application. You have to rely on multiple tools or build your own orchestrator or custom scripts.

We will analyze your current workflows and design the right SDDC solution that minimizes the operational impact.

Load balancer / Application Delivery Controller (ADC)

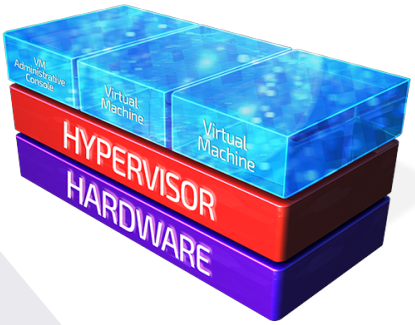
Your application needs redundancy, load sharing, and the ability to take worker nodes out of rotation for maintenance. This is often achieved with ADCs which inherently become the logical heart of your data center.

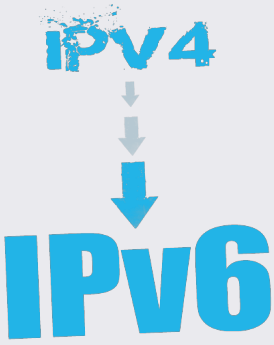
It is very important to have the right design for your ADCs and minimize bottlenecks in your environment. Our team has designed, implemented, and supported numerous load balancer and ADC implementations and will provide the most resilient solution for you.

Bring Your Own Device

Many enterprises see the value in BYOD culture. When you allow your employees to do their daily duties utilizing their own smart devices, the productivity goes up and the learning curve is low.

We can prepare your network environment for the BYOD culture to keep every device secure and protected.





IPv6

IPv6 has been around for nearly 20 years. Due to RFC 1918 allocations and NAT capabilities, the worries of IPv6 have been left behind by most enterprises.

According to Google reports there has been an exponential growth of IPv6 adoption on the public internet recently. In 2015, 6% of all Google users utilized IPv6. That number is 22% as of March 2018. IPv6 will become the predominate protocol for all Layer 3 connectivity in the near future. We can help you get ahead of the curve and take the necessary steps to be 100% IPv6 ready.

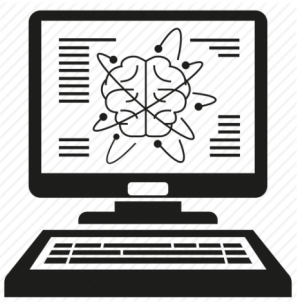
Virtualization Platforms

How do you decide if VMware, Hyper-V, OpenStack, or Containers best fulfill your requirements? Which license do you need to buy? Is there such a thing as too much redundancy?

A wrong answer to any of the architecture questions will cost your company unnecessary expenses. Even the right answer at the time of that decision can no longer be valid.

We architect and implement all virtualization platforms for your production, development, or prove of concept environments.

Smart Compute Platforms



Compute vendors continue to innovate to bring you the scalability and capability to virtually create and manage physical servers. Products like Cisco UCS, HPE Synergy, and Dell PowerEdge FX make it easy to manage your data center compute resources after the initial architecture phase.

We will review the architecture and select only the required features to create a perfect balance of simplicity, scalability, and performance.

Automation/API

Most software and infrastructure products today advertise the capability of APIs. This is due to recognized trend of automation necessity.

It is our goal to automate most of the mundane tasks of infrastructure team so more time can be focused on innovation. You probably already own automation tools and you might not even know it. We will help you get the most out of these tools or introduce custom scripting options.

End-To-End Network Architecture

Global network architecture is often overlooked in a siloed environment. Different teams use different methods to solve the same problem in the design. This often creates unnecessary complexity and sometimes leads to downtime. It's best to have your standards in place ahead of time for procedures such as route injection, redistribution, protocol timers, layer 2 creation, route filtering, and many more.

We will help you formalize your network architecture and provide remediation professional services to adhere to such standards.