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Terraform Studio

Virtusa's Visual Studio Code extension for Terraform provides a comprehensive solution for managing environments and infrastructure as code projects entirely via Visual Studio Code IDE.

Solution benefits

Increased productivity:

- Wizards for guidance through the entire development lifecycle ensures standards compliance and rapid ramp up for high quality output

- Landing zone with best-practice-compliant foundation, built-in quality governance checks and in-place lifecycle/CICD

- Ability to create blueprints that conforms to standards and compliances to increase reusability

- Standardized Terraform code via automatic code generation with automatic static code analysis, thereby eliminates errors caused by manual development of Terraform modules

- Visual UI to depict cloud architecture diagrams, created with pallet driven user inputs which automatically converts to HCL Code and vice versa

- Easily create new diagrams by referencing the already existing architecture diagrams by using the side by side view

- Ability to rapidly update architecture diagrams based on the modifications to the HCL code (bi-directional updates)

Autogenerated HCL code

Pallet driven input for IaC architecture diagram

Continuous governance and enhanced security:

- Inbuilt mechanisms that enforce policies programmatically and provide consequences for noncompliant operations

- Policy enforcement includes RBAC, configuration management and auditing

- Single Pane of Glass view – allows governing of the consumption of blueprints, costs, compliances in a simple unified way, customizable to various levels in the organization

- Ability to identify the impact if any changes are made to core elements of the blueprints or policies

Improved agility:

- Helps IT teams to manage risks, reduce inefficiencies and redundant effort by eliminating manual infrastructure provisioning

- Increased developer agility by empowering developers to provision their own self-service infrastructure without an operator bottleneck

- Fully automated self-service fulfillment with ServiceNow integration
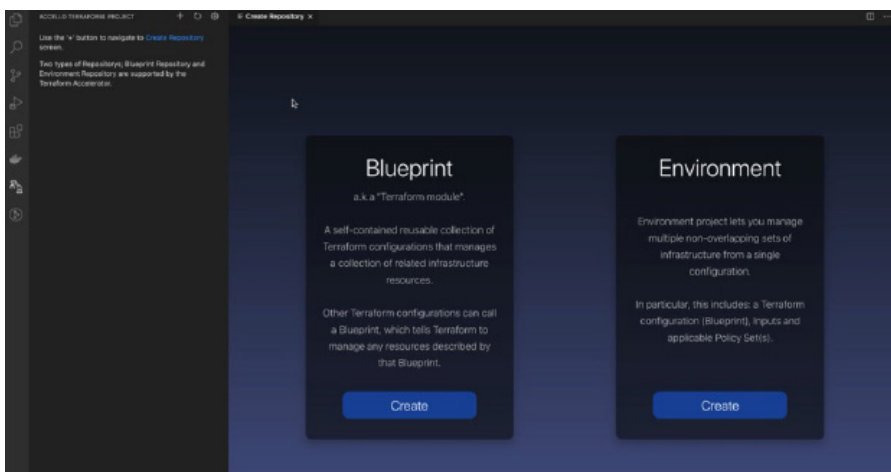
Seamless integrations with:

Terraform Studio

Terraform is open-source, supports multiple cloud service providers and is highly scalable.

The main challenges of using Terraform include,

- Code needs to be manually written in HCL, leading to lengthy cycle times and increased risks

- Time consuming to get started with adoption

- Lack of inbuilt mechanisms to ensure standards, compliance, and best practices are adhered to

Terraform savvy resources, involves a 60-70% higher resource cost

Key features:

- Easily define and configure cloud provisioning Blueprints ensuring the generated infrastructure complies with organizational policies, to maintain standards and adhere to security compliance of an organization

- Visual Editor provides a rich user experience to create IaC architecture diagrams

- Allows complete control to create, modify, execute and monitor templates, environment provisioning through IDE

- Geared for collaborative work environments - integrated with SCM (GitHub) for configuration management and approval process, complete audit trails

- Automatic static code analysis with TFSEC, Policy evaluation using Checkov/ Sentinel and Plan evaluation with Atlantis

- Integration with ServiceNow facilitates automation of the entire provisioning and instance creation process through Terraform APIs

Ten Years of Innovation

Virtusa has been a key AWS partner for more than ten years and has developed deep relationships and expertise. In 2021, Virtusa extended its Strategic Collaboration Agreement (SCA) with AWS to empower global organizations to unlock more value, efficiency, and profitability via cloud-based services. Virtusa was also named the 2021 AWS Industry Solution NSI Partner of the Year-U.S.

- AWS Premier Services partner since 2017
- 8 Competencies | 6 Partner Programs | 4 Service Validations
- 100+ AWS Customer Launches
- 2,100+ AWS Certifications
- AWS ProServe Strategic Partner
- Database Freedom Program Partner
- AWS ISV 'Workload Migration Program' partner for Pega

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